

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	nAPP2126345192
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: jim.raley@dvn.com	Incident # (assigned by OCD) nAPP2126345192
Contact mailing address: 5315 Buena Vista Dr., Carlsbad NM 88220	

Location of Release Source

Latitude 32.0212364 _____ Longitude -103.9734955 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: EAST PECOS FEDERAL 22 #005H	Site Type: Oil Production Facility
Date Release Discovered: Sept. 9 th , 2021	API# (if applicable) 30-015-42270

Unit Letter	Section	Township	Range	County
N	22	26S	29E	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls) 0	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 32	Volume Recovered (bbls) 8
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Produced water gathering line developed pinhole leak. Fluids all remained on production pad.


$4,000 \text{ sqft} \times (2/12 \text{ ft depth}) \times (1 \text{ cubic yard}/27 \text{ cubic feet}) \times (15\% \text{ porosity}) \times (6.41187384 \text{ bbls fluid}/1 \text{ cubic yard}) = \text{approximately } 24 \text{ bbls residual fluid} + 8 \text{ bbls fluids recovered} = 32 \text{ bbls released fluids}$

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc) Notification made via email on 9/9/2021 to Mike Bratcher and Emily Hernandez.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>James Raley</u>	Title: Environmental Specialist _____
Signature: 	Date: <u>09/20/2021</u>
email: <u>jim.raley@dvn.com</u>	Telephone: <u>575-689-7597</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>9/20/2021</u>

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>51-100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

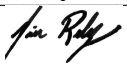
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico
Oil Conservation Division

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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
Signature:  Date: 3/2/2022
email: jim.raley@dvni.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2126345192
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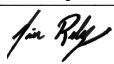
Closure

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

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

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

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

Printed Name: Jim Raley Title: Environmental Professional
Signature:  Date: 3/2/2022
email: jim.raley@dv.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

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

Closure Approved by:  Date: 03/14/2022
Printed Name: Jennifer Nobui Title: Environmental Specialist A



WSP USA

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

March 2, 2022

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

**RE: Closure Request
East Pecos Federal 22 #005H
Incident Number nAPP2126345192
Eddy County, New Mexico**

To Whom it May Concern:

WSP USA Inc. (WSP), on behalf of WPX Energy Permian, LLC. (WPX), is pleased to present the following Closure Request detailing site assessment, soil sampling, and excavation activities at the East Pecos Federal 22 #005H (Site) located in Unit N, Section 22, Township 26 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, delineation and excavation activities was to address impacts to soil following a release of produced water at the Site. Based on the excavation activities and results of the soil sampling events, WPX is submitting this Closure Request, describing remediation that has occurred and requesting no further action (NFA) for Incident Number nAPP2126345192.

RELEASE BACKGROUND

On September 9, 2021, a pinhole leak developed in a water gathering line, resulting in the release of 32 barrels (bbls) of produced water onto the surface of the well pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluid. The vacuum truck was able to recover 8 bbls of produced water. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Form C-141 on September 20, 2021 and was assigned Incident Number nAPP2126345192.

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). There are no regional or Site-specific hydrological conditions, such as shallow surface water, karst features, wetlands, or vegetation, to suggest the Site is conducive to sensitive receptors. Depth to groundwater at the Site is estimated to be between 51 and 100 feet below ground surface (bgs) based on the nearest groundwater well data. 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 United States Geological Survey



(USGS) well 320126103562801 (approximately 532 feet northwest), WSP verified that the well did not exist, therefore the nearest permitted water well with depth to water data is United USGS) file number 320112103574501, located approximately 0.58 miles southeast of the Site (57.38 feet bgs). Within a 1-mile radius of the Site, two other water wells, USGS wells 320135103573301 and 320106103555301, indicate depth to water is 80.88 feet bgs and 53.46 feet bgs, respectively. Regionally, depth to water appears to be greater than 51 feet bgs and therefore the depth to water estimate for USGS well 320112103574501 appears to be consistent with the regional data, thus a representative water well for estimating depth to water for the Site. Figure 1 depicts the three water wells described above.

The closest continuously flowing or significant watercourse to the Site is a stream/river, located approximately 1,157 feet west of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

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

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On September 15 through September 30, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141. WSP reviewed and verified the incident description (release source and release location) through visual observations and delineation activities.

WSP advanced nine potholes, two within the release extent (PH01 and PH02) and an additional seven (PH03 through PH09) around the release extent via mechanical equipment, in order to evaluate the vertical and lateral extent of impacts. WSP personnel screened soil for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and



Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 2. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

WSP personnel collected two discrete soil samples from each pothole location; one in accordance with the highest field screening (approximately 1-foot bgs) and the other at the pothole terminus (approximately 4 feet bgs). The soil samples were placed directly into a 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 LLC. (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0. Soil sampling logs and lithologic descriptions are included in Attachment 2.

Based on visible staining in the release area and elevated field screening results, excavation appeared warranted.

EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

On September 30, 2021, WSP personnel were at the Site to oversee excavation activities. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride. Photographic documentation is included in Attachment 3.

Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the floor and sidewalls 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. Composite soil sample SW01 was collected from all of the sidewalls of the excavation at depths ranging from the ground surface to approximately 2 feet bgs. Composite soil samples FS01 through FS03 were collected from the floor of the excavation at depths of approximately 2 feet bgs. The excavation soil samples were collected, handled, and analyzed following the same procedures as previously described. The excavation extent and excavation soil sample locations are presented on Figure 3.

The excavation area totaled approximately 436 square feet. A total of approximately 19 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at a R360 Facility under WPX-approved manifests. After completion of confirmation sampling, the excavation area was secured with fencing.

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SOIL ANALYTICAL RESULTS

Laboratory analytical results for pothole sample PH01 at 1 foot bgs indicated TPH and TPH-GRO/TPH-DRO concentrations exceeded Closure Criteria. Laboratory analytical results for PH01 at 4 feet bgs indicated that all tested parameters are compliant with Closure Criteria.

All lateral delineation soil samples collected (PH02 through PH09) indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Furthermore, PH03, PH05 through PH09 indicate immediate lateral delineation of the release in all cardinal directions as all samples collected from these potholes met the strictest standards—chloride concentrations less than 600 mg/kg and TPH concentrations less than 100 mg/kg.

Laboratory analytical results for excavation sidewall samples SW01 and floor samples FS01 through FS03 indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 4.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the September 9, 2021 release of produced water. Laboratory analytical results for excavation soil samples indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no further remediation appears required. Following approval of the Closure Request by NMOCD, WSP will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

WSP and WPX believe these remedial actions are protective of human health, the environment, and groundwater. As such, WPX respectfully requests NFA for Incident Number nAPP2126345192.

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

Sincerely,

WSP USA Inc.

A handwritten signature in black ink that reads 'Anna Byers'.

Anna Byers
Consultant, Geologist

A handwritten signature in black ink that appears to read 'Daniel R. Moir'.

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



District II
Page 5

cc: Jim Raley, Devon Energy Corporation
Bureau of Land Management

Attachments:

Figure 1 Site Location Map
Figure 2 Delineation Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
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

FIGURES

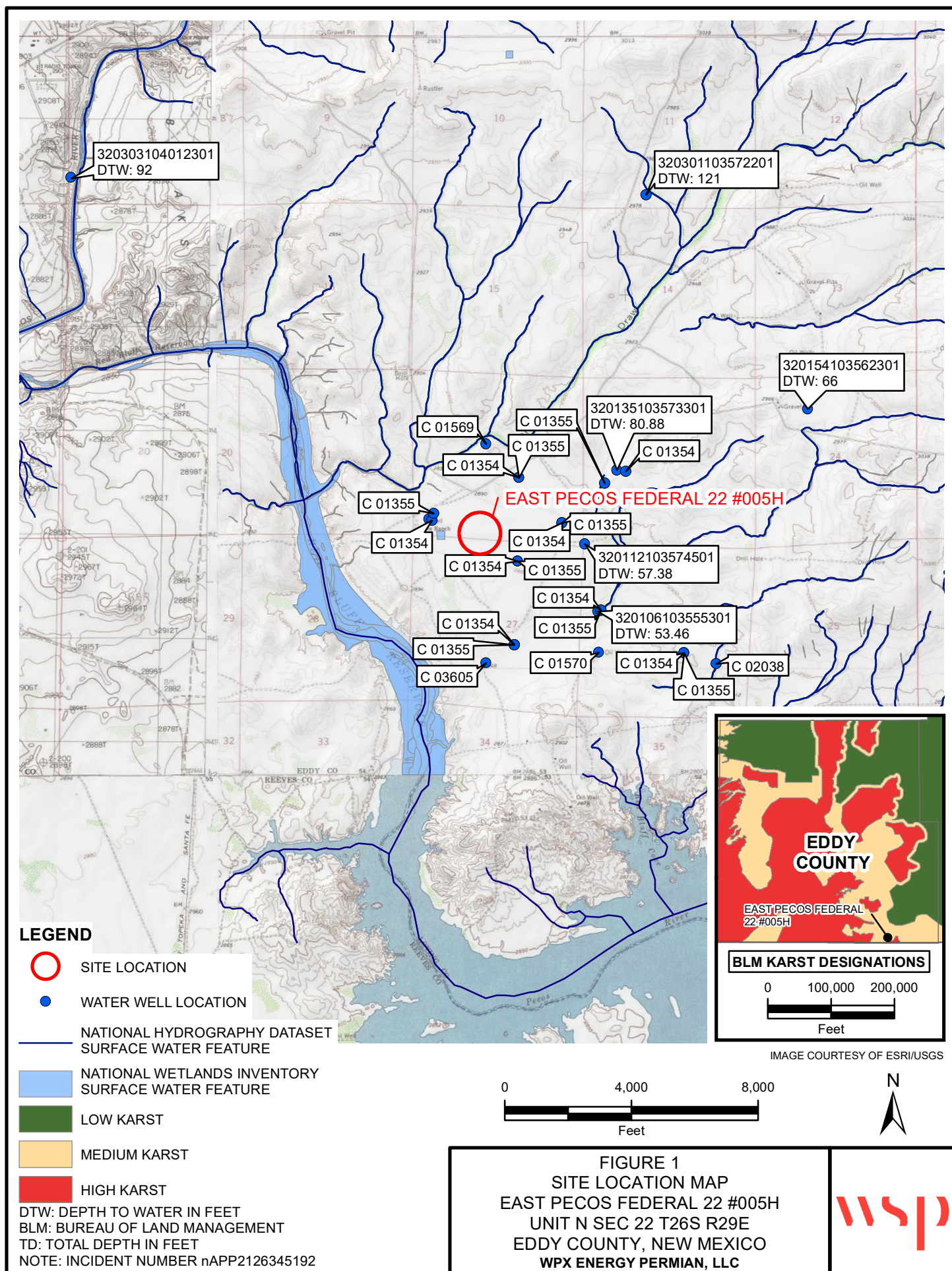




IMAGE COURTESY OF ESRI

LEGEND

RELEASE LOCATION

DELINEATION SOIL SAMPLE WITH CONCENTRATIONS
PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIADELINEATION SOIL SAMPLE IN COMPLIANCE
WITH APPLICABLE CLOSURE CRITERIA

RELEASE EXTENT



INFRASTRUCTURE

NOTE: INCIDENT NUMBER nAPP2126345192

SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

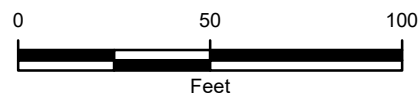


FIGURE 2
DELINEATION SOIL SAMPLE LOCATIONS
 EAST PECOS FEDERAL 22 #005H
 UNIT N SEC 22 T26S R29E
 EDDY COUNTY, NEW MEXICO
 WPX ENERGY PERMIAN, LLC



**LEGEND**

RELEASE LOCATION

FLOOR SAMPLE IN COMPLIANCE
WITH APPLICABLE CLOSURE CRITERIASIDEWALL SAMPLE IN COMPLIANCE
WITH APPLICABLE CLOSURE CRITERIA

EXCAVATION EXTENT



INFRASTRUCTURE

NOTE: INCIDENT NUMBER nAPP2126345192
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

IMAGE COURTESY OF ESRI

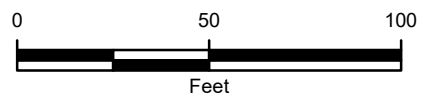


FIGURE 3
EXCAVATION SOIL SAMPLE LOCATIONS
EAST PECOS FEDERAL 22 #005H
UNIT N SEC 22 T26S R29E
EDDY COUNTY, NEW MEXICO
WPX ENERGY PERMIAN, LLC



TABLES

Table 1

Soil Analytical Results
East Pecos Federal 22 #005H
Incident Number nAPP2126345192
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	Total Xylenes (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	NE	50	NE	NE	NE	1,000	2,500	10,000
Delineation Samples											
PH01	09/15/2021	1	0.0235	<0.00198	6.4	187	1,030	111	1,220	1,330	6,160
PH01	09/15/2021	4	<0.00198	<0.00200	<0.00396	<50.0	<50.0	<50.0	<49.9	<50.0	814
PH02	09/16/2021	1	<0.00200	<0.00198	0.393	<49.9	121	<49.9	121	121	404
PH02	09/16/2021	4	<0.00198	<0.00199	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	1,490
PH03	09/16/2021	1	<0.00200	<0.00199	<0.00400	<49.8	<49.8	<49.8	<49.9	<49.8	555
PH03	09/16/2021	4	<0.00202	<0.00200	<0.00403	<50.0	<50.0	<50.0	<49.8	<50.0	182
PH04	09/16/2021	1	<0.00200	<0.00200	<0.00399	<49.9	<49.9	<49.9	<50.0	<49.9	563
PH04	09/16/2021	4	<0.00201	<0.00202	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	735
PH05	09/16/2021	1	<0.00199	<0.00198	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	133
PH05	09/16/2021	4	<0.00201	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.9	<49.8	98.1
PH06	09/16/2021	1	<0.00200	<0.00200	<0.00400	<50.0	<50.0	<50.0	<49.9	<50.0	551
PH06	09/16/2021	4	<0.00200	<0.00200	<0.00400	<50.0	<50.0	<50.0	<49.8	<50.0	462
PH07	09/16/2021	1	<0.00198	<0.00198	<0.00397	<49.8	<49.8	<49.8	<50.0	<49.8	60.6
PH07	09/16/2021	4	<0.00200	<0.00199	<0.00400	<50.0	<50.0	<50.0	<49.9	<50.0	368
PH08	09/30/2021	1	<0.00202	<0.00199	<0.00200	<49.8	<50.0	<49.8	<49.9	<49.8	117
PH08	09/30/2021	4	<0.00200	<0.00200	<0.00200	<49.9	<50.0	<49.9	<49.8	<49.9	36.1
PH09	09/30/2021	1	<0.00199	<0.00200	<0.00200	<49.9	<50.0	<49.9	<50.0	<49.9	54.2
PH09	09/30/2021	4	<0.00202	<0.00202	<0.00200	<50.0	<50.0	<50.0	<49.9	<50.0	80.1
Excavation Samples											
FS01	09/30/2021	2	<0.00202	<0.00198	<0.00200	<49.8	<49.8	<49.8	<50.0	<50.0	2,040
FS02	09/30/2021	2	<0.00199	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	164
FS03	09/30/2021	2	<0.00198	<0.00200	<0.00396	<49.8	<49.8	<49.8	<50.0	<50.0	78.4
SW01	09/30/2021	0 - 2	<0.00201	<0.00198	<0.00200	<49.9	<49.9	<49.9	<50.0	<50.0	2,940

Notes:

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

GRO - gasoline range organics

DRO - diesel range organics

ORO - oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

NE - Not Established

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

BOLD - indicates results exceed the higher of the background sample re:* - indicates sample was collected in area to be reclaimed after remediation is complete;
closure criteria for chloride concentration in the top 4 feet of soil is 600 mg/kg

ATTACHMENT 1: REFERENCED WELL RECORDS



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources (Cooperator Access)

Data Category:
Groundwater

Geographic Area:
United States

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Groundwater levels for the Nation

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320112103574501

Minimum number of levels = 1
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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

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
1993-01-05	21:45 UTC	m	62611		2836.14	NAVD88	1	S			A
1993-01-05	21:45 UTC	m	72019	57.38			1	S			A

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	A	Approved for publication -- Processing and review completed.

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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
								Groundwater	United States	GO

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320106103555301

Minimum number of levels = 1
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USGS 320106103555301 26S.29E.26.13143

Eddy County, New Mexico
Latitude 32°00'51.3", Longitude 103°57'42.0" NAD83
Land-surface elevation 2,883.00 feet above NGVD29
The depth of the well is 140 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

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
1983-01-26			D 62610		2828.70	NGVD29	1	Z			A
1983-01-26			D 62611		2830.22	NAVD88	1	Z			A
1983-01-26			D 72019	54.30			1	Z			A
1987-10-14			D 62610		2847.71	NGVD29	1	Z			A
1987-10-14			D 62611		2849.23	NAVD88	1	Z			A
1987-10-14			D 72019	35.29			1	Z			A
1992-11-04			D 62610		2838.94	NGVD29	1	S			A
1992-11-04			D 62611		2840.46	NAVD88	1	S			A
1992-11-04			D 72019	44.06			1	S			A
1998-01-28			D 62610		2829.99	NGVD29	1	S			A
1998-01-28			D 62611		2831.51	NAVD88	1	S			A
1998-01-28			D 72019	53.01			1	S			A
2003-01-27			D 62610		2827.07	NGVD29	1	S	USGS	S	A
2003-01-27			D 62611		2828.59	NAVD88	1	S	USGS	S	A
2003-01-27			D 72019	55.93			1	S	USGS	S	A
2013-01-09	19:00 UTC	m	62610		2825.19	NGVD29	1	S	USGS	S	A
2013-01-09	19:00 UTC	m	62611		2826.71	NAVD88	1	S	USGS	S	A
2013-01-09	19:00 UTC	m	72019	57.81			1	S	USGS	S	A
2021-02-24	21:10 UTC	m	62610		2829.54	NGVD29	1	S	USGS	S	A
2021-02-24	21:10 UTC	m	62611		2831.06	NAVD88	1	S	USGS	S	A
2021-02-24	21:10 UTC	m	72019	53.46			1	S	USGS	S	A

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day



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National Water Information System: Web Interface

USGS Water Resources (Cooperator Access)

Data Category:
Groundwater

Geographic Area:
United States

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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 aquifers (N9999OTHER) national aquifer.
This well is completed in the Forty-Niner Member of Rustler Formation (310FRNR) local aquifer.

Output formats

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


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			A
1987-10-14			D 62611		2833.65	NAVD88	1	S			A
1987-10-14			D 72019	80.88			1	S			A


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	A	Approved for publication -- Processing and review completed.


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ATTACHMENT 2: LITHOLOGIC/SOIL SAMPLING LOG


 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								Pothole Name: PH01		Date: 9/15/2021	
								Site Name: East Pecos Federal 22 #005H			
								Incident Number: nAPP2126345192			
								WSP Job Number: 31403360.010			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Anna Byers		Method: Back-Hoe	
Lat/Long: 32.021728, -103.972979				Field Screening: Chloride, PID				Hole Diameter: N/A		Total Depth: 4 feet	
Comments: Chloride values do not include correction factor. Chloride field screening conducted with 1:4 dilution of soil to distilled water. BDL - Below Detection Limit; Moisture Content "D" Dry/ "M" Moist											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
						0					
M	10,044	3,496	YES	PH01	1	1	SP-SM	tan-brown poorly-graded SAND with silt and gravel, odor, non-plastic/non-cohesive			
M	4,088	895.0	NO			2	SP-SM				
						3					
D	704	116.0	NO	PH01	4	4	CCHE	light tan to white moderately cemented CALICHE, no odor			
Total Depth											


 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								Pothole Name:		Date:	
								PH02		9/16/2021	
								Site Name: East Pecos Federal 22 #005H			
								Incident Number: nAPP2126345192			
WSP Job Number: 31403360.010											
LITHOLOGIC / SOIL SAMPLING LOG											
Lat/Long: 32.021715, -103.972905				Field Screening: Chloride, PID		Hole Diameter: N/A		Total Depth: 4 feet			
Comments: Chloride values do not include correction factor. Chloride field screening conducted with 1:4 dilution of soil to distilled water. BDL - Below Detection Limit; Moisture Content "D" Dry/ "M" Moist											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
						0					
M	448	1,261	YES	PH02	1	1	CCHE	light tan moderately cemented CALICHE, fine grained matrix with gravel sized clasts, odor			
D	498	255.0	NO			2	CCHE	light tan moderately cemented CALICHE, fine grained matrix with gravel sized clasts, odor			
						3					
D	648	24.0	NO	PH02	4	4	CCHE	light tan moderately cemented CALICHE, fine grained matrix with gravel sized clasts, no odor			
Total Depth											


 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								Pothole Name: PH03		Date: 9/16/2021	
								Site Name: East Pecos Federal 22 #005H			
								Incident Number: nAPP2126345192			
								WSP Job Number: 31403360.010			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Anna Byers		Method: Back-Hoe	
Lat/Long: 32.021661, -103.973155				Field Screening: Chloride, PID				Hole Diameter: N/A		Total Depth: 4 feet	
Comments: Chloride values do not include correction factor. Chloride field screening conducted with 1:4 dilution of soil to distilled water. BDL - Below Detection Limit; Moisture Content "D" Dry/ "M" Moist											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
						0					
D	188	0.3	NO	PH03	1	1	SP-SM	tan-brown poorly-graded SAND with silt and gravel, no odor, non-plastic/non-cohesive			
D	324	0.1	NO			2	SP-SM				
						3					
D	448	0.1	NO	PH03	4	4	CCHE	light tan to white moderately cemented CALICHE, no odor			
Total Depth											


 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								Pothole Name: PH04		Date: 9/16/2021	
								Site Name: East Pecos Federal 22 #005H			
								Incident Number: nAPP2126345192			
								WSP Job Number: 31403360.010			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Anna Byers		Method: Back-Hoe	
Lat/Long: 32.021724, -103.973303				Field Screening: Chloride, PID				Hole Diameter: N/A		Total Depth: 4 feet	
Comments: Chloride values do not include correction factor. Chloride field screening conducted with 1:4 dilution of soil to distilled water. BDL - Below Detection Limit; Moisture Content "D" Dry/ "M" Moist											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
						0					
D	1,368	0.3	NO	PH04	1	1	SP-SM	tan-brown poorly-graded SAND with silt and gravel, no odor, non-plastic/non-cohesive			
D	648	0.1	NO			2	SP-SM				
						3					
D	648	0.6	NO	PH04	4	4	CCHE	light tan to white poorly cemented CALICHE, no odor			
Total Depth											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220						Pothole Name:		Date:	
						PH05		9/16/2021	
						Site Name: East Pecos Federal 22 #005H			
						Incident Number: nAPP2126345192			
WSP Job Number: 31403360.010						Logged By: Anna Byers		Method: Back-Hoe	
LITHOLOGIC / SOIL SAMPLING LOG Lat/Long: 32.021799, -103.973149 Field Screening: Chloride, PID Hole Diameter: N/A Total Depth: 4 feet						Comments: Chloride values do not include correction factor. Chloride field screening conducted with 1:4 dilution of soil to distilled water. BDL - Below Detection Limit; Moisture Content "D" Dry/ "M" Moist			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
D	112	1.0	NO	PH05	1	1	SP-SM	tan-brown poorly-graded SAND with silt and gravel, no odor, non-plastic/non-cohesive	
D	364	0.7	NO			2	CCHE	light tan to white well cemented CALICHE, no odor	
						3			
D	112	0.6	NO	PH05	4	4	CCHE	light tan to white moderately cemented CALICHE, no odor	
Total Depth									

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								Pothole Name:		Date:	
								PH06		9/16/2021	
								Site Name: East Pecos Federal 22 #005H			
								Incident Number: nAPP2126345192			
WSP Job Number: 31403360.010											
LITHOLOGIC / SOIL SAMPLING LOG											
Lat/Long: 32.021794, -103.972922				Field Screening: Chloride, PID		Hole Diameter: N/A		Total Depth: 4 feet			
Comments: Chloride values do not include correction factor. Chloride field screening conducted with 1:4 dilution of soil to distilled water. BDL - Below Detection Limit; Moisture Content "D" Dry/ "M" Moist											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
						0					
D	396	1.2	NO	PH06	1	1	SP-SM	tan-brown poorly-graded SAND with silt and gravel, no odor, non-plastic/non-cohesive			
D	436	0.3	NO			2	CCHE	light tan to white well cemented CALICHE, no odor			
						3					
D	356	0.5	NO	PH06	4	4	SP	light brown poorly-graded SAND (m.), non-plastic/non-cohesive, no odor			
Total Depth											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220							Pothole Name:		Date:	
							PH07		9/16/2021	
							Site Name: East Pecos Federal 22 #005H			
							Incident Number: nAPP2126345192			
WSP Job Number: 31403360.010							Logged By: Anna Byers		Method: Back-Hoe	
Lat/Long: 32.021719, -103.972781					Field Screening: Chloride, PID		Hole Diameter: N/A		Total Depth: 4 feet	
Comments: Chloride values do not include correction factor. Chloride field screening conducted with 1:4 dilution of soil to distilled water. BDL - Below Detection Limit (< 122 ppm); Moisture Content "D" Dry/ "M" Moist										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks		
						0				
D	BDL	0.0	NO	PH07	1	1	SP-SM	tan-brown poorly-graded SAND with silt and gravel, no odor, non-plastic/non-cohesive		
D	412	0.8	NO			2	CCHE	light tan to white well cemented CALICHE, no odor		
						3				
D	464	0.0	NO	PH07	4	4	CCHE	light tan to white moderately cemented CALICHE, no odor		
Total Depth										

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								Pothole Name: PH08		Date: 9/30/2021	
								Site Name: East Pecos Federal 22 #005H			
								Incident Number: nAPP2126345192			
								WSP Job Number: 31403360.010			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Anna Byers		Method: Back-Hoe	
Lat/Long: 32.021643, -103.972960				Field Screening: Chloride, PID				Hole Diameter: N/A		Total Depth: 4 feet	
Comments: Chloride values do not include correction factor. Chloride field screening conducted with 1:4 dilution of soil to distilled water. BDL - Below Detection Limit (< 122 ppm); Moisture Content "D" Dry/ "M" Moist											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
						0					
D	188	0.0	NO	PH08	1	1	SP-SM	tan-brown poorly-graded SAND with silt and gravel, no odor, non-plastic/non-cohesive			
D	BDL	0.0	NO			2	SP-SM				
						3					
D	112	0.0	NO	PH08	4	4	CCHE	light tan to white moderately cemented CALICHE, no odor			
Total Depth											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								Pothole Name: PH09		Date: 9/30/2021	
								Site Name: East Pecos Federal 22 #005H			
								Incident Number: nAPP2126345192			
								WSP Job Number: 31403360.010			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Anna Byers		Method: Back-Hoe	
Lat/Long: 32.021725, -103.973335				Field Screening: Chloride, PID				Hole Diameter: N/A		Total Depth: 4 feet	
Comments: Chloride values do not include correction factor. Chloride field screening conducted with 1:4 dilution of soil to distilled water. BDL - Below Detection Limit (< 122 ppm); Moisture Content "D" Dry/ "M" Moist											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
						0					
D	BDL	0.0	NO	PH09	1	1	SP-SM	tan-brown poorly-graded SAND with silt and gravel, no odor, non-plastic/non-cohesive			
D	BDL	0.0	NO			2	SP-SM				
						3					
D	BDL	0.0	NO	PH09	4	4	CCHE	light tan to white moderately cemented CALICHE, no odor			
Total Depth											

ATTACHMENT 3: PHOTOGRAPHIC LOG

**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC.	East Pecos Federal 22 #005H New Mexico	31403360.010
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Photo No.	Date	
1	Dec 15th through Dec 30th, 2021	
Western view of the release extent post tank removal.		

Photo No.	Date	
2	Dec 15th through Dec 30th, 2021	
Vertical Delineation Activities within the tank containment.		

**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC.	East Pecos Federal 22 #005H New Mexico	31403360.010
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Photo No.	Date	
3	Dec 15th through Dec 30th, 2021	
Lateral delineation activities outside of the release extent.		 A photograph of a construction site under a clear blue sky. In the foreground, a white tanker truck is parked on a dirt road. To the left, a metal structure with stairs is visible. In the background, a yellow excavator and a yellow bulldozer are working on the site. The ground is dry and dusty.

Photo No.	Date	
4	Dec 15th through Dec 30th, 2021	
Northeastern view of the excavation extent.		 A photograph showing a large, deep excavation site. The ground is uneven and covered with dirt and rocks. In the background, there are power lines and a clear blue sky. The excavation appears to be a significant area of land that has been dug out.



PHOTOGRAPHIC LOG

WPX Energy Permian, LLC.	East Pecos Federal 22 #005H New Mexico	31403360.010
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Photo No.	Date	
5	Dec 15th through Dec 30th, 2021	
Northwestern view of the excavation extent.		

Photo No.	Date	
6	Dec 15th through Dec 30th, 2021	
Western view of excavation extent.		

ATTACHMENT 4: LABORATORY ANALYTICAL REPORTS



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1280-1

Laboratory Sample Delivery Group: Eddy County NM
Client Project/Site: East Pecos Fed 22-5H

For:

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

Attn: Joseph Hernandez

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
9/28/2021 4:18:47 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.

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Laboratory Job ID: 890-1280-1
SDG: Eddy County NM

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
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, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

Job ID: 890-1280-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1280-1****Receipt**

The samples were received on 9/20/2021 9:14 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 0.6°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8132 and analytical batch 880-8212 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 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8173 and 880-8241 and analytical batch 880-8207 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 8021B: Surrogate recovery for the following samples were outside control limits: PH01 (890-1280-1) and PH02 (890-1280-3). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH03 (890-1280-5), PH04 (890-1280-7), PH05 (890-1280-10), PH06 (890-1280-11), PH07 (890-1280-14) and (880-6276-A-11-D). 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.

GC Semi VOA

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 for preparation batch 880-8121 and analytical batch 880-8260 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 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-8122 and analytical batch 880-8270 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 880-8230 and analytical batch 880-8271 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 Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

Client Sample ID: PH01

Lab Sample ID: 890-1280-1

Date Collected: 09/15/21 10:20

Matrix: Solid

Date Received: 09/20/21 09:14

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0235		0.00202		mg/Kg		09/21/21 09:06	09/21/21 23:06	1
Toluene	0.636		0.199		mg/Kg		09/22/21 09:44	09/23/21 13:31	100
Ethylbenzene	0.722		0.199		mg/Kg		09/22/21 09:44	09/23/21 13:31	100
m-Xylene & p-Xylene	3.87		0.398		mg/Kg		09/22/21 09:44	09/23/21 13:31	100
o-Xylene	1.17		0.199		mg/Kg		09/22/21 09:44	09/23/21 13:31	100
Xylenes, Total	5.04		0.398		mg/Kg		09/22/21 09:44	09/23/21 13:31	100
Total BTEX	6.40		0.398		mg/Kg		09/22/21 09:44	09/23/21 13:31	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	27	S1-	70 - 130	09/21/21 09:06	09/21/21 23:06	1
1,4-Difluorobenzene (Surr)	117		70 - 130	09/21/21 09:06	09/21/21 23:06	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	187		49.8		mg/Kg		09/22/21 08:56	09/22/21 23:20	1
Diesel Range Organics (Over C10-C28)	1030		49.8		mg/Kg		09/22/21 08:56	09/22/21 23:20	1
Oil Range Organics (Over C28-C36)	111		49.8		mg/Kg		09/22/21 08:56	09/22/21 23:20	1
Total TPH	1330		49.8		mg/Kg		09/22/21 08:56	09/22/21 23:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	09/22/21 08:56	09/22/21 23:20	1
o-Terphenyl	121		70 - 130	09/22/21 08:56	09/22/21 23:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6160	F1	50.0		mg/Kg			09/23/21 05:35	10

Client Sample ID: PH01

Lab Sample ID: 890-1280-2

Date Collected: 09/15/21 11:20

Matrix: Solid

Date Received: 09/20/21 09:14

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/21/21 09:06	09/21/21 23:26	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/21/21 09:06	09/21/21 23:26	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/21/21 09:06	09/21/21 23:26	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/21/21 09:06	09/21/21 23:26	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/21/21 09:06	09/21/21 23:26	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/21/21 09:06	09/21/21 23:26	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		09/21/21 09:06	09/21/21 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	09/21/21 09:06	09/21/21 23:26	1
1,4-Difluorobenzene (Surr)	77		70 - 130	09/21/21 09:06	09/21/21 23:26	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

Client Sample ID: PH01

Lab Sample ID: 890-1280-2

Date Collected: 09/15/21 11:20

Matrix: Solid

Date Received: 09/20/21 09:14

Sample Depth: 4

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	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/22/21 23:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/22/21 23:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/22/21 23:41	1
Total TPH	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/22/21 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	09/22/21 08:56	09/22/21 23:41	1
o-Terphenyl	125		70 - 130	09/22/21 08:56	09/22/21 23:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	814		4.97		mg/Kg			09/23/21 05:51	1

Client Sample ID: PH02

Lab Sample ID: 890-1280-3

Date Collected: 09/16/21 08:30

Matrix: Solid

Date Received: 09/20/21 09:14

Sample Depth: 1

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		09/21/21 09:06	09/21/21 23:47	1
Toluene	0.0310		0.00200		mg/Kg		09/21/21 09:06	09/21/21 23:47	1
Ethylbenzene	0.00367		0.00200		mg/Kg		09/21/21 09:06	09/21/21 23:47	1
m-Xylene & p-Xylene	0.268		0.00400		mg/Kg		09/21/21 09:06	09/21/21 23:47	1
o-Xylene	0.0908		0.00200		mg/Kg		09/21/21 09:06	09/21/21 23:47	1
Xylenes, Total	0.359		0.00400		mg/Kg		09/21/21 09:06	09/21/21 23:47	1
Total BTEX	0.393		0.00400		mg/Kg		09/21/21 09:06	09/21/21 23:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	09/21/21 09:06	09/21/21 23:47	1
1,4-Difluorobenzene (Surr)	84		70 - 130	09/21/21 09:06	09/21/21 23:47	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		09/22/21 08:56	09/23/21 00:02	1
Diesel Range Organics (Over C10-C28)	121		49.9		mg/Kg		09/22/21 08:56	09/23/21 00:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/22/21 08:56	09/23/21 00:02	1
Total TPH	121		49.9		mg/Kg		09/22/21 08:56	09/23/21 00:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	09/22/21 08:56	09/23/21 00:02	1
o-Terphenyl	130		70 - 130	09/22/21 08:56	09/23/21 00:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	404		4.98		mg/Kg			09/23/21 04:50	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

Client Sample ID: PH02

Lab Sample ID: 890-1280-4

Date Collected: 09/16/21 08:40

Matrix: Solid

Date Received: 09/20/21 09:14

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/21/21 09:06	09/22/21 00:08	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/21/21 09:06	09/22/21 00:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/21/21 09:06	09/22/21 00:08	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		09/21/21 09:06	09/22/21 00:08	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/21/21 09:06	09/22/21 00:08	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		09/21/21 09:06	09/22/21 00:08	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		09/21/21 09:06	09/22/21 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	09/21/21 09:06	09/22/21 00:08	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/21/21 09:06	09/22/21 00:08	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		09/22/21 08:56	09/23/21 00:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/22/21 08:56	09/23/21 00:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/22/21 08:56	09/23/21 00:23	1
Total TPH	<49.9	U	49.9		mg/Kg		09/22/21 08:56	09/23/21 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	09/22/21 08:56	09/23/21 00:23	1
o-Terphenyl	128		70 - 130	09/22/21 08:56	09/23/21 00:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1490		5.00		mg/Kg			09/23/21 05:06	1

Client Sample ID: PH03

Lab Sample ID: 890-1280-5

Date Collected: 09/16/21 10:05

Matrix: Solid

Date Received: 09/20/21 09:14

Sample Depth: 1

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		09/21/21 09:30	09/22/21 07:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:30	09/22/21 07:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:30	09/22/21 07:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/21/21 09:30	09/22/21 07:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:30	09/22/21 07:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/21/21 09:30	09/22/21 07:18	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/21/21 09:30	09/22/21 07:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	09/21/21 09:30	09/22/21 07:18	1
1,4-Difluorobenzene (Surr)	81		70 - 130	09/21/21 09:30	09/22/21 07:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

Client Sample ID: PH03

Lab Sample ID: 890-1280-5

Date Collected: 09/16/21 10:05

Matrix: Solid

Date Received: 09/20/21 09:14

Sample Depth: 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	<49.8	U	49.8		mg/Kg		09/22/21 08:56	09/23/21 00:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/22/21 08:56	09/23/21 00:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/22/21 08:56	09/23/21 00:44	1
Total TPH	<49.8	U	49.8		mg/Kg		09/22/21 08:56	09/23/21 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	09/22/21 08:56	09/23/21 00:44	1
o-Terphenyl	130		70 - 130	09/22/21 08:56	09/23/21 00:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	555		5.00		mg/Kg			09/23/21 05:12	1

Client Sample ID: PH03

Lab Sample ID: 890-1280-6

Date Collected: 09/16/21 10:10

Matrix: Solid

Date Received: 09/20/21 09:14

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/21/21 09:30	09/22/21 07:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/21/21 09:30	09/22/21 07:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/21/21 09:30	09/22/21 07:38	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/21/21 09:30	09/22/21 07:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/21/21 09:30	09/22/21 07:38	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/21/21 09:30	09/22/21 07:38	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		09/21/21 09:30	09/22/21 07:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	09/21/21 09:30	09/22/21 07:38	1
1,4-Difluorobenzene (Surr)	75		70 - 130	09/21/21 09:30	09/22/21 07:38	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	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/23/21 01:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/23/21 01:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/23/21 01:06	1
Total TPH	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/23/21 01:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	09/22/21 08:56	09/23/21 01:06	1
o-Terphenyl	125		70 - 130	09/22/21 08:56	09/23/21 01:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	182		4.96		mg/Kg			09/23/21 05:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

Client Sample ID: PH04

Lab Sample ID: 890-1280-7

Date Collected: 09/16/21 10:40

Matrix: Solid

Date Received: 09/20/21 09:14

Sample Depth: 1

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		09/21/21 09:30	09/22/21 07:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:30	09/22/21 07:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:30	09/22/21 07:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/21/21 09:30	09/22/21 07:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:30	09/22/21 07:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/21/21 09:30	09/22/21 07:59	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		09/21/21 09:30	09/22/21 07:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	09/21/21 09:30	09/22/21 07:59	1
1,4-Difluorobenzene (Surr)	79		70 - 130	09/21/21 09:30	09/22/21 07:59	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		09/22/21 08:56	09/23/21 01:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/22/21 08:56	09/23/21 01:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/22/21 08:56	09/23/21 01:48	1
Total TPH	<49.9	U	49.9		mg/Kg		09/22/21 08:56	09/23/21 01:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	09/22/21 08:56	09/23/21 01:48	1
o-Terphenyl	128		70 - 130	09/22/21 08:56	09/23/21 01:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	563		5.04		mg/Kg			09/23/21 06:31	1

Client Sample ID: PH04

Lab Sample ID: 890-1280-8

Date Collected: 09/16/21 10:50

Matrix: Solid

Date Received: 09/20/21 09:14

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/21/21 09:30	09/22/21 08:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/21/21 09:30	09/22/21 08:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/21/21 09:30	09/22/21 08:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/21/21 09:30	09/22/21 08:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/21/21 09:30	09/22/21 08:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/21/21 09:30	09/22/21 08:19	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		09/21/21 09:30	09/22/21 08:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	09/21/21 09:30	09/22/21 08:19	1
1,4-Difluorobenzene (Surr)	76		70 - 130	09/21/21 09:30	09/22/21 08:19	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

Client Sample ID: PH04

Lab Sample ID: 890-1280-8

Date Collected: 09/16/21 10:50

Matrix: Solid

Date Received: 09/20/21 09:14

Sample Depth: 4

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		09/22/21 08:56	09/23/21 02:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/22/21 08:56	09/23/21 02:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/22/21 08:56	09/23/21 02:09	1
Total TPH	<49.9	U	49.9		mg/Kg		09/22/21 08:56	09/23/21 02:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	09/22/21 08:56	09/23/21 02:09	1
o-Terphenyl	129		70 - 130	09/22/21 08:56	09/23/21 02:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	735		4.97		mg/Kg			09/23/21 06:36	1

Client Sample ID: PH05

Lab Sample ID: 890-1280-9

Date Collected: 09/16/21 11:10

Matrix: Solid

Date Received: 09/20/21 09:14

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/21/21 09:30	09/22/21 09:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/21/21 09:30	09/22/21 09:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/21/21 09:30	09/22/21 09:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/21/21 09:30	09/22/21 09:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/21/21 09:30	09/22/21 09:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/21/21 09:30	09/22/21 09:41	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		09/21/21 09:30	09/22/21 09:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	09/21/21 09:30	09/22/21 09:41	1
1,4-Difluorobenzene (Surr)	78		70 - 130	09/21/21 09:30	09/22/21 09:41	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		09/22/21 08:56	09/23/21 02:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/22/21 08:56	09/23/21 02:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/22/21 08:56	09/23/21 02:30	1
Total TPH	<49.9	U	49.9		mg/Kg		09/22/21 08:56	09/23/21 02:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	09/22/21 08:56	09/23/21 02:30	1
o-Terphenyl	127		70 - 130	09/22/21 08:56	09/23/21 02:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		4.95		mg/Kg			09/23/21 06:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

Client Sample ID: PH05

Lab Sample ID: 890-1280-10

Date Collected: 09/16/21 11:20

Matrix: Solid

Date Received: 09/20/21 09:14

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/21/21 09:30	09/22/21 10:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/21/21 09:30	09/22/21 10:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/21/21 09:30	09/22/21 10:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/21/21 09:30	09/22/21 10:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/21/21 09:30	09/22/21 10:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/21/21 09:30	09/22/21 10:02	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		09/21/21 09:30	09/22/21 10:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	09/21/21 09:30	09/22/21 10:02	1
1,4-Difluorobenzene (Surr)	80		70 - 130	09/21/21 09:30	09/22/21 10:02	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	<49.8	U	49.8		mg/Kg		09/22/21 08:56	09/23/21 02:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/22/21 08:56	09/23/21 02:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/22/21 08:56	09/23/21 02:51	1
Total TPH	<49.8	U	49.8		mg/Kg		09/22/21 08:56	09/23/21 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	09/22/21 08:56	09/23/21 02:51	1
o-Terphenyl	118		70 - 130	09/22/21 08:56	09/23/21 02:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.1		5.01		mg/Kg			09/23/21 06:47	1

Client Sample ID: PH06

Lab Sample ID: 890-1280-11

Date Collected: 09/16/21 11:42

Matrix: Solid

Date Received: 09/20/21 09:14

Sample Depth: 1

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		09/21/21 09:30	09/22/21 10:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:30	09/22/21 10:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:30	09/22/21 10:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/21/21 09:30	09/22/21 10:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:30	09/22/21 10:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/21/21 09:30	09/22/21 10:22	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/21/21 09:30	09/22/21 10:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	09/21/21 09:30	09/22/21 10:22	1
1,4-Difluorobenzene (Surr)	85		70 - 130	09/21/21 09:30	09/22/21 10:22	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

Client Sample ID: PH06

Lab Sample ID: 890-1280-11

Date Collected: 09/16/21 11:42

Matrix: Solid

Date Received: 09/20/21 09:14

Sample Depth: 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	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/23/21 03:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/23/21 03:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/23/21 03:12	1
Total TPH	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/23/21 03:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130	09/22/21 08:56	09/23/21 03:12	1
o-Terphenyl	141	S1+	70 - 130	09/22/21 08:56	09/23/21 03:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	551		4.98		mg/Kg			09/22/21 22:08	1

Client Sample ID: PH06

Lab Sample ID: 890-1280-12

Date Collected: 09/16/21 11:52

Matrix: Solid

Date Received: 09/20/21 09:14

Sample Depth: 4

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		09/21/21 09:30	09/22/21 10:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:30	09/22/21 10:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:30	09/22/21 10:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/21/21 09:30	09/22/21 10:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:30	09/22/21 10:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/21/21 09:30	09/22/21 10:42	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/21/21 09:30	09/22/21 10:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	09/21/21 09:30	09/22/21 10:42	1
1,4-Difluorobenzene (Surr)	79		70 - 130	09/21/21 09:30	09/22/21 10:42	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	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/23/21 03:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/23/21 03:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/23/21 03:33	1
Total TPH	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/23/21 03:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	09/22/21 08:56	09/23/21 03:33	1
o-Terphenyl	118		70 - 130	09/22/21 08:56	09/23/21 03:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	462		24.8		mg/Kg			09/22/21 22:13	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

Client Sample ID: PH07

Lab Sample ID: 890-1280-13

Date Collected: 09/16/21 12:15

Matrix: Solid

Date Received: 09/20/21 09:14

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/21/21 09:30	09/22/21 11:03	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/21/21 09:30	09/22/21 11:03	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/21/21 09:30	09/22/21 11:03	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		09/21/21 09:30	09/22/21 11:03	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/21/21 09:30	09/22/21 11:03	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		09/21/21 09:30	09/22/21 11:03	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		09/21/21 09:30	09/22/21 11:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	09/21/21 09:30	09/22/21 11:03	1
1,4-Difluorobenzene (Surr)	83		70 - 130	09/21/21 09:30	09/22/21 11:03	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	<49.8	U	49.8		mg/Kg		09/22/21 08:56	09/23/21 03:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/22/21 08:56	09/23/21 03:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/22/21 08:56	09/23/21 03:54	1
Total TPH	<49.8	U	49.8		mg/Kg		09/22/21 08:56	09/23/21 03:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	09/22/21 08:56	09/23/21 03:54	1
o-Terphenyl	126		70 - 130	09/22/21 08:56	09/23/21 03:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.6		4.95		mg/Kg			09/22/21 22:19	1

Client Sample ID: PH07

Lab Sample ID: 890-1280-14

Date Collected: 09/16/21 12:27

Matrix: Solid

Date Received: 09/20/21 09:14

Sample Depth: 4

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		09/21/21 09:30	09/22/21 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:30	09/22/21 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:30	09/22/21 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/21/21 09:30	09/22/21 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:30	09/22/21 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/21/21 09:30	09/22/21 11:23	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/21/21 09:30	09/22/21 11:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	09/21/21 09:30	09/22/21 11:23	1
1,4-Difluorobenzene (Surr)	83		70 - 130	09/21/21 09:30	09/22/21 11:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

Client Sample ID: PH07

Lab Sample ID: 890-1280-14

Date Collected: 09/16/21 12:27

Matrix: Solid

Date Received: 09/20/21 09:14

Sample Depth: 4

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	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/23/21 04:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/23/21 04:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/23/21 04:15	1
Total TPH	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/23/21 04:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	09/22/21 08:56	09/23/21 04:15	1
o-Terphenyl	126		70 - 130	09/22/21 08:56	09/23/21 04:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	368		5.04		mg/Kg			09/22/21 22:25	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-6271-A-1-F MS	Matrix Spike	90	81
880-6271-A-1-G MSD	Matrix Spike Duplicate	124	100
880-6276-A-11-B MS	Matrix Spike	119	79
880-6276-A-11-C MSD	Matrix Spike Duplicate	117	76
880-6345-A-8-C MS	Matrix Spike	125	82
880-6345-A-8-D MSD	Matrix Spike Duplicate	130	83
890-1280-1	PH01	27 S1-	117
890-1280-2	PH01	96	77
890-1280-3	PH02	135 S1+	84
890-1280-4	PH02	107	94
890-1280-5	PH03	137 S1+	81
890-1280-6	PH03	126	75
890-1280-7	PH04	138 S1+	79
890-1280-8	PH04	128	76
890-1280-9	PH05	123	78
890-1280-10	PH05	137 S1+	80
890-1280-11	PH06	134 S1+	85
890-1280-12	PH06	129	79
890-1280-13	PH07	107	83
890-1280-14	PH07	135 S1+	83
LCS 880-8132/1-B	Lab Control Sample	112	73
LCS 880-8173/1-A	Lab Control Sample	88	83
LCS 880-8198/1-A	Lab Control Sample	114	86
LCSD 880-8132/2-B	Lab Control Sample Dup	111	81
LCSD 880-8173/2-A	Lab Control Sample Dup	99	92
LCSD 880-8198/2-A	Lab Control Sample Dup	122	72
MB 880-8102/5-B	Method Blank	109	75
MB 880-8132/5-B	Method Blank	119	78
MB 880-8142/5-A	Method Blank	107	76
MB 880-8173/5-A	Method Blank	120	127
MB 880-8198/5-A	Method Blank	119	82
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
880-6278-A-141-G MS	Matrix Spike	100	100
880-6278-A-141-H MSD	Matrix Spike Duplicate	102	96
890-1280-1	PH01	118	121
890-1280-2	PH01	112	125
890-1280-3	PH02	115	130
890-1280-4	PH02	113	128
890-1280-5	PH03	114	130
890-1280-6	PH03	110	125

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-1280-1

Project/Site: East Pecos Fed 22-5H

SDG: Eddy County NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1280-7	PH04	113	128
890-1280-8	PH04	113	129
890-1280-9	PH05	113	127
890-1280-10	PH05	107	118
890-1280-11	PH06	127	141 S1+
890-1280-12	PH06	109	118
890-1280-13	PH07	110	126
890-1280-14	PH07	112	126
LCS 880-8242/2-A	Lab Control Sample	126	123
LCSD 880-8242/3-A	Lab Control Sample Dup	110	108
MB 880-8242/1-A	Method Blank	108	123
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8102/5-B

Matrix: Solid

Analysis Batch: 8212

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:40	09/21/21 18:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:40	09/21/21 18:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:40	09/21/21 18:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/21/21 09:40	09/21/21 18:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:40	09/21/21 18:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/21/21 09:40	09/21/21 18:03	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/21/21 09:40	09/21/21 18:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	09/21/21 09:40	09/21/21 18:03	1
1,4-Difluorobenzene (Surr)	75		70 - 130	09/21/21 09:40	09/21/21 18:03	1

Lab Sample ID: MB 880-8132/5-B

Matrix: Solid

Analysis Batch: 8212

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8132

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:30	09/22/21 04:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:30	09/22/21 04:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:30	09/22/21 04:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/21/21 09:30	09/22/21 04:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:30	09/22/21 04:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/21/21 09:30	09/22/21 04:54	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/21/21 09:30	09/22/21 04:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	09/21/21 09:30	09/22/21 04:54	1
1,4-Difluorobenzene (Surr)	78		70 - 130	09/21/21 09:30	09/22/21 04:54	1

Lab Sample ID: LCS 880-8132/1-B

Matrix: Solid

Analysis Batch: 8212

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8132

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08695		mg/Kg		87	70 - 130
Toluene	0.100	0.08872		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.08942		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1865		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09687		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	73		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

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

Lab Sample ID: LCSD 880-8132/2-B

Matrix: Solid

Analysis Batch: 8212

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8132

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08927		mg/Kg		89	70 - 130	3	35
Toluene	0.100	0.09043		mg/Kg		90	70 - 130	2	35
Ethylbenzene	0.100	0.09260		mg/Kg		93	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1933		mg/Kg		97	70 - 130	4	35
o-Xylene	0.100	0.1002		mg/Kg		100	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

Lab Sample ID: 880-6276-A-11-B MS

Matrix: Solid

Analysis Batch: 8212

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8132

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0990	0.06772	F1	mg/Kg		68	70 - 130		
Toluene	<0.00200	U F1	0.0990	0.06664	F1	mg/Kg		67	70 - 130		
Ethylbenzene	<0.00200	U F1	0.0990	0.06261	F1	mg/Kg		63	70 - 130		
m-Xylene & p-Xylene	<0.00399	U F1	0.198	0.1325	F1	mg/Kg		67	70 - 130		
o-Xylene	<0.00200	U F1	0.0990	0.06732	F1	mg/Kg		68	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: 880-6276-A-11-C MSD

Matrix: Solid

Analysis Batch: 8212

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8132

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0996	0.06978		mg/Kg		70	70 - 130	3	35
Toluene	<0.00200	U F1	0.0996	0.06999		mg/Kg		70	70 - 130	5	35
Ethylbenzene	<0.00200	U F1	0.0996	0.06560	F1	mg/Kg		66	70 - 130	5	35
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.1391		mg/Kg		70	70 - 130	5	35
o-Xylene	<0.00200	U F1	0.0996	0.07017		mg/Kg		70	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	76		70 - 130

Lab Sample ID: MB 880-8142/5-A

Matrix: Solid

Analysis Batch: 8262

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:45	09/22/21 16:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:45	09/22/21 16:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:45	09/22/21 16:03	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

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

Lab Sample ID: MB 880-8142/5-A

Matrix: Solid

Analysis Batch: 8262

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/22/21 09:45	09/22/21 16:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:45	09/22/21 16:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/22/21 09:45	09/22/21 16:03	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/22/21 09:45	09/22/21 16:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	09/22/21 09:45	09/22/21 16:03	1
1,4-Difluorobenzene (Surr)	76		70 - 130	09/22/21 09:45	09/22/21 16:03	1

Lab Sample ID: MB 880-8173/5-A

Matrix: Solid

Analysis Batch: 8207

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8173

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:06	09/21/21 16:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:06	09/21/21 16:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:06	09/21/21 16:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/21/21 09:06	09/21/21 16:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:06	09/21/21 16:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/21/21 09:06	09/21/21 16:11	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/21/21 09:06	09/21/21 16:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	09/21/21 09:06	09/21/21 16:11	1
1,4-Difluorobenzene (Surr)	127		70 - 130	09/21/21 09:06	09/21/21 16:11	1

Lab Sample ID: LCS 880-8173/1-A

Matrix: Solid

Analysis Batch: 8207

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8173

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09661		mg/Kg		97	70 - 130
Toluene	0.100	0.08381		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.08625		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1571		mg/Kg		79	70 - 130
o-Xylene	0.100	0.07448		mg/Kg		74	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: LCSD 880-8173/2-A

Matrix: Solid

Analysis Batch: 8207

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8173

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09055		mg/Kg		91	70 - 130	6	35
Toluene	0.100	0.09868		mg/Kg		99	70 - 130	16	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

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

Lab Sample ID: LCSD 880-8173/2-A

Matrix: Solid

Analysis Batch: 8207

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8173

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	0.100	0.1023		mg/Kg		102	70 - 130	17	35
m-Xylene & p-Xylene	0.200	0.1812		mg/Kg		91	70 - 130	14	35
o-Xylene	0.100	0.08524		mg/Kg		85	70 - 130	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-6271-A-1-F MS

Matrix: Solid

Analysis Batch: 8207

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8173

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F2 F1	0.0996	<0.00199	U F1	mg/Kg		1	70 - 130
Toluene	<0.00200	U F1	0.0996	0.05483	F1	mg/Kg		55	70 - 130
Ethylbenzene	<0.00200	U F1	0.0996	0.05464	F1	mg/Kg		54	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.09997	F1	mg/Kg		50	70 - 130
o-Xylene	<0.00200	U F1	0.0996	0.04740	F1	mg/Kg		48	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

Lab Sample ID: 880-6271-A-1-G MSD

Matrix: Solid

Analysis Batch: 8207

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8173

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F2 F1	0.0994	0.02583	F2 F1	mg/Kg		26	70 - 130	185	35
Toluene	<0.00200	U F1	0.0994	0.05591	F1	mg/Kg		56	70 - 130	2	35
Ethylbenzene	<0.00200	U F1	0.0994	0.05377	F1	mg/Kg		53	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.09867	F1	mg/Kg		50	70 - 130	1	35
o-Xylene	<0.00200	U F1	0.0994	0.04935	F1	mg/Kg		50	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-8198/5-A

Matrix: Solid

Analysis Batch: 8262

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8198

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:44	09/23/21 02:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:44	09/23/21 02:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:44	09/23/21 02:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/22/21 09:44	09/23/21 02:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:44	09/23/21 02:55	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

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

Lab Sample ID: MB 880-8198/5-A

Matrix: Solid

Analysis Batch: 8262

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8198

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/22/21 09:44	09/23/21 02:55	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/22/21 09:44	09/23/21 02:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	09/22/21 09:44	09/23/21 02:55	1
1,4-Difluorobenzene (Surr)	82		70 - 130	09/22/21 09:44	09/23/21 02:55	1

Lab Sample ID: LCS 880-8198/1-A

Matrix: Solid

Analysis Batch: 8262

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8198

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08388		mg/Kg		84	70 - 130
Toluene	0.100	0.08505		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.08810		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1844		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09718		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-8198/2-A

Matrix: Solid

Analysis Batch: 8262

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8198

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08359		mg/Kg		84	70 - 130	0	35
Toluene	0.100	0.08817		mg/Kg		88	70 - 130	4	35
Ethylbenzene	0.100	0.09335		mg/Kg		93	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1969		mg/Kg		98	70 - 130	7	35
o-Xylene	0.100	0.1016		mg/Kg		102	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	72		70 - 130

Lab Sample ID: 880-6345-A-8-C MS

Matrix: Solid

Analysis Batch: 8262

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8198

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F1	0.100	0.05090	F1	mg/Kg		51	70 - 130
Toluene	<0.00198	U F1	0.100	0.03736	F1	mg/Kg		37	70 - 130
Ethylbenzene	<0.00198	U F1	0.100	0.04601	F1	mg/Kg		46	70 - 130
m-Xylene & p-Xylene	<0.00396	U F1	0.201	0.09039	F1	mg/Kg		45	70 - 130
o-Xylene	<0.00198	U F1	0.100	0.05994	F1	mg/Kg		60	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

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

Lab Sample ID: 880-6345-A-8-C MS

Matrix: Solid

Analysis Batch: 8262

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8198

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

Lab Sample ID: 880-6345-A-8-D MSD

Matrix: Solid

Analysis Batch: 8262

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8198

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.100	0.05894	F1	mg/Kg		59	70 - 130	15	35
Toluene	<0.00198	U F1	0.100	0.03865	F1	mg/Kg		39	70 - 130	3	35
Ethylbenzene	<0.00198	U F1	0.100	0.05040	F1	mg/Kg		50	70 - 130	9	35
m-Xylene & p-Xylene	<0.00396	U F1	0.200	0.09513	F1	mg/Kg		48	70 - 130	5	35
o-Xylene	<0.00198	U F1	0.100	0.07027		mg/Kg		70	70 - 130	16	35

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

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

Lab Sample ID: MB 880-8242/1-A

Matrix: Solid

Analysis Batch: 8238

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8242

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/22/21 20:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/22/21 20:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/22/21 20:08	1
Total TPH	<50.0	U	50.0		mg/Kg		09/22/21 08:56	09/22/21 20:08	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	108		70 - 130	09/22/21 08:56	09/22/21 20:08	1			
o-Terphenyl	123		70 - 130	09/22/21 08:56	09/22/21 20:08	1			

Lab Sample ID: LCS 880-8242/2-A

Matrix: Solid

Analysis Batch: 8238

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8242

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1013		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1278		mg/Kg		128	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	123		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

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

Lab Sample ID: LCSD 880-8242/3-A

Matrix: Solid

Analysis Batch: 8238

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8242

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1021		mg/Kg		102	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1141		mg/Kg		114	70 - 130	11	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	110		70 - 130						
o-Terphenyl	108		70 - 130						

Lab Sample ID: 880-6278-A-141-G MS

Matrix: Solid

Analysis Batch: 8238

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8242

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	792.0		mg/Kg		77	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	997	1042		mg/Kg		105	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	100		70 - 130								
o-Terphenyl	100		70 - 130								

Lab Sample ID: 880-6278-A-141-H MSD

Matrix: Solid

Analysis Batch: 8238

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8242

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	939.9		mg/Kg		92	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1016		mg/Kg		102	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	96		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-8121/1-A

Matrix: Solid

Analysis Batch: 8260

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/22/21 19:36	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-8121/2-A

Matrix: Solid

Analysis Batch: 8260

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	260.6		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-8121/3-A

Matrix: Solid

Analysis Batch: 8260

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	261.7		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-1271-A-11-D MS

Matrix: Solid

Analysis Batch: 8260

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	495	F1	249	769.8	F1	mg/Kg		111	90 - 110

Lab Sample ID: 890-1271-A-11-E MSD

Matrix: Solid

Analysis Batch: 8260

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	495	F1	249	770.8	F1	mg/Kg		111	90 - 110	0	20

Lab Sample ID: MB 880-8122/1-A

Matrix: Solid

Analysis Batch: 8270

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/23/21 03:59	1

Lab Sample ID: LCS 880-8122/2-A

Matrix: Solid

Analysis Batch: 8270

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	263.9		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-8122/3-A

Matrix: Solid

Analysis Batch: 8270

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	265.0		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 890-1280-1 MS

Matrix: Solid

Analysis Batch: 8270

Client Sample ID: PH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	6160	F1	2500	9084	F1	mg/Kg		117	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1280-1 MSD

Matrix: Solid

Analysis Batch: 8270

Client Sample ID: PH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	6160	F1	2500	9098	F1	mg/Kg		117	90 - 110	0	20

Lab Sample ID: MB 880-8230/1-A

Matrix: Solid

Analysis Batch: 8271

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/23/21 07:16	1

Lab Sample ID: LCS 880-8230/2-A

Matrix: Solid

Analysis Batch: 8271

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	261.5		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-8230/3-A

Matrix: Solid

Analysis Batch: 8271

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	262.2		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-6344-A-21-B MS

Matrix: Solid

Analysis Batch: 8271

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3500	F1	1240	4902	F1	mg/Kg		113	90 - 110

Lab Sample ID: 880-6344-A-21-C MSD

Matrix: Solid

Analysis Batch: 8271

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3500	F1	1240	4922	F1	mg/Kg		114	90 - 110	0	20

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QC Association Summary

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

GC VOA

Prep Batch: 8102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8102/5-B	Method Blank	Total/NA	Solid	5035	

Prep Batch: 8132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1280-5	PH03	Total/NA	Solid	5035	
890-1280-6	PH03	Total/NA	Solid	5035	
890-1280-7	PH04	Total/NA	Solid	5035	
890-1280-8	PH04	Total/NA	Solid	5035	
890-1280-9	PH05	Total/NA	Solid	5035	
890-1280-10	PH05	Total/NA	Solid	5035	
890-1280-11	PH06	Total/NA	Solid	5035	
890-1280-12	PH06	Total/NA	Solid	5035	
890-1280-13	PH07	Total/NA	Solid	5035	
890-1280-14	PH07	Total/NA	Solid	5035	
MB 880-8132/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-8132/1-B	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8132/2-B	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6276-A-11-B MS	Matrix Spike	Total/NA	Solid	5035	
880-6276-A-11-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 8142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8142/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 8173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1280-1	PH01	Total/NA	Solid	5035	
890-1280-2	PH01	Total/NA	Solid	5035	
890-1280-3	PH02	Total/NA	Solid	5035	
890-1280-4	PH02	Total/NA	Solid	5035	
MB 880-8173/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8173/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8173/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6271-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
880-6271-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 8198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1280-1	PH01	Total/NA	Solid	5035	
MB 880-8198/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8198/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8198/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6345-A-8-C MS	Matrix Spike	Total/NA	Solid	5035	
880-6345-A-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 8207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1280-1	PH01	Total/NA	Solid	8021B	8173
890-1280-2	PH01	Total/NA	Solid	8021B	8173
890-1280-3	PH02	Total/NA	Solid	8021B	8173
890-1280-4	PH02	Total/NA	Solid	8021B	8173

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QC Association Summary

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

GC VOA (Continued)

Analysis Batch: 8207 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8173/5-A	Method Blank	Total/NA	Solid	8021B	8173
LCS 880-8173/1-A	Lab Control Sample	Total/NA	Solid	8021B	8173
LCSD 880-8173/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8173
880-6271-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	8173
880-6271-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	8173

Analysis Batch: 8212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1280-5	PH03	Total/NA	Solid	8021B	8132
890-1280-6	PH03	Total/NA	Solid	8021B	8132
890-1280-7	PH04	Total/NA	Solid	8021B	8132
890-1280-8	PH04	Total/NA	Solid	8021B	8132
890-1280-9	PH05	Total/NA	Solid	8021B	8132
890-1280-10	PH05	Total/NA	Solid	8021B	8132
890-1280-11	PH06	Total/NA	Solid	8021B	8132
890-1280-12	PH06	Total/NA	Solid	8021B	8132
890-1280-13	PH07	Total/NA	Solid	8021B	8132
890-1280-14	PH07	Total/NA	Solid	8021B	8132
MB 880-8102/5-B	Method Blank	Total/NA	Solid	8021B	8102
MB 880-8132/5-B	Method Blank	Total/NA	Solid	8021B	8132
LCS 880-8132/1-B	Lab Control Sample	Total/NA	Solid	8021B	8132
LCSD 880-8132/2-B	Lab Control Sample Dup	Total/NA	Solid	8021B	8132
880-6276-A-11-B MS	Matrix Spike	Total/NA	Solid	8021B	8132
880-6276-A-11-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	8132

Analysis Batch: 8262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1280-1	PH01	Total/NA	Solid	8021B	8198
MB 880-8142/5-A	Method Blank	Total/NA	Solid	8021B	8142
MB 880-8198/5-A	Method Blank	Total/NA	Solid	8021B	8198
LCS 880-8198/1-A	Lab Control Sample	Total/NA	Solid	8021B	8198
LCSD 880-8198/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8198
880-6345-A-8-C MS	Matrix Spike	Total/NA	Solid	8021B	8198
880-6345-A-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	8198

GC Semi VOA

Analysis Batch: 8238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1280-1	PH01	Total/NA	Solid	8015B NM	8242
890-1280-2	PH01	Total/NA	Solid	8015B NM	8242
890-1280-3	PH02	Total/NA	Solid	8015B NM	8242
890-1280-4	PH02	Total/NA	Solid	8015B NM	8242
890-1280-5	PH03	Total/NA	Solid	8015B NM	8242
890-1280-6	PH03	Total/NA	Solid	8015B NM	8242
890-1280-7	PH04	Total/NA	Solid	8015B NM	8242
890-1280-8	PH04	Total/NA	Solid	8015B NM	8242
890-1280-9	PH05	Total/NA	Solid	8015B NM	8242
890-1280-10	PH05	Total/NA	Solid	8015B NM	8242
890-1280-11	PH06	Total/NA	Solid	8015B NM	8242
890-1280-12	PH06	Total/NA	Solid	8015B NM	8242

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 8238 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1280-13	PH07	Total/NA	Solid	8015B NM	8242
890-1280-14	PH07	Total/NA	Solid	8015B NM	8242
MB 880-8242/1-A	Method Blank	Total/NA	Solid	8015B NM	8242
LCS 880-8242/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8242
LCSD 880-8242/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8242
880-6278-A-141-G MS	Matrix Spike	Total/NA	Solid	8015B NM	8242
880-6278-A-141-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	8242

Prep Batch: 8242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1280-1	PH01	Total/NA	Solid	8015NM Prep	
890-1280-2	PH01	Total/NA	Solid	8015NM Prep	
890-1280-3	PH02	Total/NA	Solid	8015NM Prep	
890-1280-4	PH02	Total/NA	Solid	8015NM Prep	
890-1280-5	PH03	Total/NA	Solid	8015NM Prep	
890-1280-6	PH03	Total/NA	Solid	8015NM Prep	
890-1280-7	PH04	Total/NA	Solid	8015NM Prep	
890-1280-8	PH04	Total/NA	Solid	8015NM Prep	
890-1280-9	PH05	Total/NA	Solid	8015NM Prep	
890-1280-10	PH05	Total/NA	Solid	8015NM Prep	
890-1280-11	PH06	Total/NA	Solid	8015NM Prep	
890-1280-12	PH06	Total/NA	Solid	8015NM Prep	
890-1280-13	PH07	Total/NA	Solid	8015NM Prep	
890-1280-14	PH07	Total/NA	Solid	8015NM Prep	
MB 880-8242/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8242/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8242/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6278-A-141-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6278-A-141-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 8121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1280-11	PH06	Soluble	Solid	DI Leach	
890-1280-12	PH06	Soluble	Solid	DI Leach	
890-1280-13	PH07	Soluble	Solid	DI Leach	
890-1280-14	PH07	Soluble	Solid	DI Leach	
MB 880-8121/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8121/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8121/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1271-A-11-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1271-A-11-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 8122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1280-1	PH01	Soluble	Solid	DI Leach	
890-1280-2	PH01	Soluble	Solid	DI Leach	
890-1280-3	PH02	Soluble	Solid	DI Leach	
890-1280-4	PH02	Soluble	Solid	DI Leach	
890-1280-5	PH03	Soluble	Solid	DI Leach	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 8122 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1280-6	PH03	Soluble	Solid	DI Leach	
890-1280-7	PH04	Soluble	Solid	DI Leach	
890-1280-8	PH04	Soluble	Solid	DI Leach	
890-1280-9	PH05	Soluble	Solid	DI Leach	
890-1280-10	PH05	Soluble	Solid	DI Leach	
MB 880-8122/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8122/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8122/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1280-1 MS	PH01	Soluble	Solid	DI Leach	
890-1280-1 MSD	PH01	Soluble	Solid	DI Leach	

Leach Batch: 8230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8230/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8230/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8230/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6344-A-21-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-6344-A-21-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 8260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1280-11	PH06	Soluble	Solid	300.0	8121
890-1280-12	PH06	Soluble	Solid	300.0	8121
890-1280-13	PH07	Soluble	Solid	300.0	8121
890-1280-14	PH07	Soluble	Solid	300.0	8121
MB 880-8121/1-A	Method Blank	Soluble	Solid	300.0	8121
LCS 880-8121/2-A	Lab Control Sample	Soluble	Solid	300.0	8121
LCSD 880-8121/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8121
890-1271-A-11-D MS	Matrix Spike	Soluble	Solid	300.0	8121
890-1271-A-11-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	8121

Analysis Batch: 8270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1280-1	PH01	Soluble	Solid	300.0	8122
890-1280-2	PH01	Soluble	Solid	300.0	8122
890-1280-3	PH02	Soluble	Solid	300.0	8122
890-1280-4	PH02	Soluble	Solid	300.0	8122
890-1280-5	PH03	Soluble	Solid	300.0	8122
890-1280-6	PH03	Soluble	Solid	300.0	8122
890-1280-7	PH04	Soluble	Solid	300.0	8122
890-1280-8	PH04	Soluble	Solid	300.0	8122
890-1280-9	PH05	Soluble	Solid	300.0	8122
890-1280-10	PH05	Soluble	Solid	300.0	8122
MB 880-8122/1-A	Method Blank	Soluble	Solid	300.0	8122
LCS 880-8122/2-A	Lab Control Sample	Soluble	Solid	300.0	8122
LCSD 880-8122/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8122
890-1280-1 MS	PH01	Soluble	Solid	300.0	8122
890-1280-1 MSD	PH01	Soluble	Solid	300.0	8122

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

HPLC/IC

Analysis Batch: 8271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8230/1-A	Method Blank	Soluble	Solid	300.0	8230
LCS 880-8230/2-A	Lab Control Sample	Soluble	Solid	300.0	8230
LCSD 880-8230/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8230
880-6344-A-21-B MS	Matrix Spike	Soluble	Solid	300.0	8230
880-6344-A-21-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	8230

Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

Client Sample ID: PH01

Lab Sample ID: 890-1280-1

Date Collected: 09/15/21 10:20

Matrix: Solid

Date Received: 09/20/21 09:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8173	09/21/21 09:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/21/21 23:06	KL	XEN MID
Total/NA	Prep	5035			5.03 g	5 mL	8198	09/22/21 09:44	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	8262	09/23/21 13:31	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8242	09/22/21 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 23:20	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8122	09/20/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		10	0 mL	1.0 mL	8270	09/23/21 05:35	CH	XEN MID

Client Sample ID: PH01

Lab Sample ID: 890-1280-2

Date Collected: 09/15/21 11:20

Matrix: Solid

Date Received: 09/20/21 09:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8173	09/21/21 09:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/21/21 23:26	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8242	09/22/21 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/22/21 23:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8122	09/20/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	8270	09/23/21 05:51	CH	XEN MID

Client Sample ID: PH02

Lab Sample ID: 890-1280-3

Date Collected: 09/16/21 08:30

Matrix: Solid

Date Received: 09/20/21 09:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8173	09/21/21 09:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/21/21 23:47	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8242	09/22/21 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/23/21 00:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8122	09/20/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	8270	09/23/21 04:50	CH	XEN MID

Client Sample ID: PH02

Lab Sample ID: 890-1280-4

Date Collected: 09/16/21 08:40

Matrix: Solid

Date Received: 09/20/21 09:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8173	09/21/21 09:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/22/21 00:08	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8242	09/22/21 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/23/21 00:23	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8122	09/20/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	8270	09/23/21 05:06	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

Client Sample ID: PH03

Lab Sample ID: 890-1280-5

Date Collected: 09/16/21 10:05

Matrix: Solid

Date Received: 09/20/21 09:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8132	09/21/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8212	09/22/21 07:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8242	09/22/21 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/23/21 00:44	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8122	09/20/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	8270	09/23/21 05:12	CH	XEN MID

Client Sample ID: PH03

Lab Sample ID: 890-1280-6

Date Collected: 09/16/21 10:10

Matrix: Solid

Date Received: 09/20/21 09:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8132	09/21/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8212	09/22/21 07:38	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8242	09/22/21 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/23/21 01:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	8122	09/20/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	8270	09/23/21 05:18	CH	XEN MID

Client Sample ID: PH04

Lab Sample ID: 890-1280-7

Date Collected: 09/16/21 10:40

Matrix: Solid

Date Received: 09/20/21 09:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8132	09/21/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8212	09/22/21 07:59	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8242	09/22/21 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/23/21 01:48	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8122	09/20/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	8270	09/23/21 06:31	CH	XEN MID

Client Sample ID: PH04

Lab Sample ID: 890-1280-8

Date Collected: 09/16/21 10:50

Matrix: Solid

Date Received: 09/20/21 09:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8132	09/21/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8212	09/22/21 08:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8242	09/22/21 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/23/21 02:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8122	09/20/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	8270	09/23/21 06:36	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

Client Sample ID: PH05

Lab Sample ID: 890-1280-9

Date Collected: 09/16/21 11:10

Matrix: Solid

Date Received: 09/20/21 09:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	8132	09/21/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8212	09/22/21 09:41	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8242	09/22/21 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/23/21 02:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8122	09/20/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	8270	09/23/21 06:42	CH	XEN MID

Client Sample ID: PH05

Lab Sample ID: 890-1280-10

Date Collected: 09/16/21 11:20

Matrix: Solid

Date Received: 09/20/21 09:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8132	09/21/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8212	09/22/21 10:02	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8242	09/22/21 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/23/21 02:51	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8122	09/20/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	8270	09/23/21 06:47	CH	XEN MID

Client Sample ID: PH06

Lab Sample ID: 890-1280-11

Date Collected: 09/16/21 11:42

Matrix: Solid

Date Received: 09/20/21 09:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8132	09/21/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8212	09/22/21 10:22	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8242	09/22/21 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/23/21 03:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8121	09/20/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			8260	09/22/21 22:08	CH	XEN MID

Client Sample ID: PH06

Lab Sample ID: 890-1280-12

Date Collected: 09/16/21 11:52

Matrix: Solid

Date Received: 09/20/21 09:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8132	09/21/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8212	09/22/21 10:42	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8242	09/22/21 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/23/21 03:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8121	09/20/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		5			8260	09/22/21 22:13	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

Client Sample ID: PH07

Lab Sample ID: 890-1280-13

Date Collected: 09/16/21 12:15

Matrix: Solid

Date Received: 09/20/21 09:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	8132	09/21/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8212	09/22/21 11:03	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8242	09/22/21 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/23/21 03:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8121	09/20/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			8260	09/22/21 22:19	CH	XEN MID

Client Sample ID: PH07

Lab Sample ID: 890-1280-14

Date Collected: 09/16/21 12:27

Matrix: Solid

Date Received: 09/20/21 09:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8132	09/21/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8212	09/22/21 11:23	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8242	09/22/21 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8238	09/23/21 04:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8121	09/20/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			8260	09/22/21 22:25	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.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

Laboratory: Eurofins Xenco, Midland

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

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

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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
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

Sample Summary

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-5H

Job ID: 890-1280-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1280-1	PH01	Solid	09/15/21 10:20	09/20/21 09:14	1
890-1280-2	PH01	Solid	09/15/21 11:20	09/20/21 09:14	4
890-1280-3	PH02	Solid	09/16/21 08:30	09/20/21 09:14	1
890-1280-4	PH02	Solid	09/16/21 08:40	09/20/21 09:14	4
890-1280-5	PH03	Solid	09/16/21 10:05	09/20/21 09:14	1
890-1280-6	PH03	Solid	09/16/21 10:10	09/20/21 09:14	4
890-1280-7	PH04	Solid	09/16/21 10:40	09/20/21 09:14	1
890-1280-8	PH04	Solid	09/16/21 10:50	09/20/21 09:14	4
890-1280-9	PH05	Solid	09/16/21 11:10	09/20/21 09:14	1
890-1280-10	PH05	Solid	09/16/21 11:20	09/20/21 09:14	4
890-1280-11	PH06	Solid	09/16/21 11:42	09/20/21 09:14	1
890-1280-12	PH06	Solid	09/16/21 11:52	09/20/21 09:14	4
890-1280-13	PH07	Solid	09/16/21 12:15	09/20/21 09:14	1
890-1280-14	PH07	Solid	09/16/21 12:27	09/20/21 09:14	4



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Joseph Hernandez	Bill to: (if different)	Jim Raley
Company Name:	WSP	Company Name:	WSP
Address:	3300 N A Street	Address:	5315 Buena Vista Dr.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	281-392-2329	Email:	anna.byars@wsp.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	East Peaces Fed 22-5H	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:		Due Date:	5 DAY		
Project Location:	Eddy County, NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Anna Byers	Wet Ice:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		
PO #:	release date: 9/10/21 (18)	Thermometer ID:	1-NM-007		
SAMPLE RECEIPT	Temp Blank:	Correction Factor:	-0.7		
Samples Received In tact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Temperature Reading:	0.6		
Cooler Custody Seals:	Yes No NA	Corrected Temperature:	0.6		
Sample Custody Seals:	Yes No NA				
Total Containers:					



890-1280 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
PTH1	S	9/5/21	1030	1'	Grab	1	TPH (EPA 8215 Mod)		None: NO	DI Water: H ₂ O
PTH1	S	9/5/21	1130	4'	Grab	1	BTEX (EPA 8215 B)		Cool: Cool	MeOH: Me
PTH2	S	9/16/21	0830	1'	Grab	1	Chloride (EPA 8215 P)		HCL: HC	HNO ₃ : HN
PTH3	S	9/16/21	0834	4'	Grab	1			H ₂ SO ₄ : H ₂	NaOH: Na
PTH3	S	9/16/21	1005	1'	Grab	1			H ₃ PO ₄ : HP	
PTH3	S	9/16/21	1010	4'	Grab	1			NaHSO ₄ : NABIS	
PTH4	S	9/16/21	1040	1'	Grab	1			Na ₂ S ₂ O ₃ : NaSO ₃	
PTH4	S	9/16/21	1050	4'	Grab	1			Zn Acetate+NaOH: Zn	
PTH5	S	9/16/21	1110	1'	Grab	1			NaOH+Ascorbic Acid: SAPC	
PTH5	S	9/16/21	1120	4'	Grab	1				

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed: TELP+SPLEP 6010: 8RCRA SB AS BA BE CD CR CO CU PB MN MO NI SE AG TI U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Anna Byers	N. Byers	9/20/21 9:13			
3					
5					



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No.:

www.xenco.com Page 2 of 2

Project Manager:	Joseph Hernandez	Bill to: (if different)	Tim Reiley
Company Name:	WSR	Company Name:	WPX
Address:	3300 N A Street	Address:	5315 Buena Vista Dr.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	801-782-2329	Email:	anna.byers@wsp.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

[illegible][illegible]

Total	200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Meta(s) to be analyzed			TCLP / SPLP	6010:	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U												
<p>Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.</p>																																	
<p>Signature: _____ Date: _____</p>																																	

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>Ann Bay</i>	<i>N. Star</i>	9/20/21 9:12			
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020

Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad NM 88220

Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

Environment Testing
America

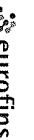
Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:					
Client Contact:	Phone:	Kramer Jessica			890-419 1					
Shipping/Receiving	E-Mail	Jessica.kramer@eurofinset.com	State of Origin:		Page 1 of 2					
Company	Accreditations Required (See note)	NE LAP - Texas			Job #					
Eurofins Xenco					890-1280-1					
Address	Due Date Requested		Preservation Codes							
1211 W Florida Ave	9/24/2021		A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Ammonia H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other							
City	TAT Requested (days)		M - Hexane N None O AsNaO2 P Na2OAS Q Na2SO3 R Na2SO4 S - H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Z other (specify)							
Midland										
State Zip	PO #									
TX, 79701	W/O #									
Phone:	Project #									
432-704-5440(Tel)	88000203									
Email	SSON#									
Project Name										
East Pecos Fed 22-SH										
Site										
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note
PH01 (890-1280-1)	9/15/21	10 20		Solid		X	X	X	1	
PH01 (890-1280-2)	9/15/21	11 20		Solid		X	X	X	1	
PH02 (890-1280-3)	9/16/21	08 30		Solid		X	X	X	1	
PH02 (890-1280-4)	9/16/21	08 40		Solid		X	X	X	1	
PH03 (890-1280-5)	9/16/21	10 05		Solid		X	X	X	1	
PH03 (890-1280-6)	9/16/21	10 10		Solid		X	X	X	1	
PH04 (890-1280-7)	9/16/21	10 40		Solid		X	X	X	1	
PH04 (890-1280-8)	9/16/21	10 50		Solid		X	X	X	1	
PH05 (890-1280-9)	9/16/21	11 10		Solid		X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin, listed above for analysis, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.										
Possible Hazard Identification										
Unconfirmed										
Deliverable Requested I II III, IV Other (specify)										
Primary Deliverable Rank 2										
Special Instructions/QC Requirements										
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months										
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)										
Empty Kit Relinquished by										
Date/Time										
Company										
Relinquished by										
Date/Time										
Company										
Relinquished by										
Date/Time										
Company										
Custody Seals Intact:										
Cooler Temperature(s) °C and Other Remarks										
Ver: 06/08/2021										

Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad NM 88220

Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No																																																												
Client Contact:	Phone:	Kramer Jessica			890-419 2																																																												
Shipping/Receiving	E-Mail	jessica.kramer@eurofins.com	State of Origin		Page: 2 of 2																																																												
Company	Accreditations Required (See note):	NE LAP - Texas	New Mexico		Job #:																																																												
Eurofins Xenco					890-1280-1																																																												
Address	Due Date Requested																																																																
1211 W Florida Ave	9/24/2021																																																																
City	TAT Requested (days):																																																																
Midland																																																																	
State Zip																																																																	
TX 79701																																																																	
Phone	PO #:																																																																
432-704-5440(Tel)																																																																	
Email	WO #:																																																																
Project Name:	Project #:																																																																
East Pecos Fed 22-SH	88000203																																																																
Site	SSOW#																																																																
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Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastech, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note																																																								
PH05 (890-1280-10)	9/16/21	11 20		Solid	X	X																																																											
PH06 (890-1280-11)	9/16/21	11 42		Solid	X	X																																																											
PH06 (890-1280-12)	9/16/21	11 52		Solid	X	X																																																											
PH07 (890-1280-13)	9/16/21	12 15		Solid	X	X																																																											
PH07 (890-1280-14)	9/16/21	12 27		Solid	X	X																																																											
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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1280-1

SDG Number: Eddy County NM

Login Number: 1280

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1280-1

SDG Number: Eddy County NM

Login Number: 1280

List Number: 2

Creator: Lowe, Katie

List Source: Eurofins Xenco, Midland

List Creation: 09/21/21 11:32 AM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1345-1

Laboratory Sample Delivery Group: Eddy County
Client Project/Site: East Pecos 22-5H

For:

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

Attn: Joseph Hernandez

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
10/11/2021 3:53:00 PM

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

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results through

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www.eurofinsus.com/Env

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

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

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Laboratory Job ID: 890-1345-1
SDG: Eddy County

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1345-1
SDG: Eddy County

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
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 22-5H

Job ID: 890-1345-1
SDG: Eddy County

Job ID: 890-1345-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1345-1****Receipt**

The samples were received on 10/1/2021 9:47 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 2.8°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8805 and 880-8923 and analytical batch 880-8924 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 8021B: Surrogate recovery for the following samples were outside control limits: FS02 (890-1345-3) and (880-6816-A-1-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS01 (890-1345-2) and (880-6735-A-42-B). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1345-1
SDG: Eddy County

Client Sample ID: SW01

Lab Sample ID: 890-1345-1

Date Collected: 09/30/21 10:05

Matrix: Solid

Date Received: 10/01/21 09:47

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/05/21 14:14	10/06/21 06:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/05/21 14:14	10/06/21 06:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/05/21 14:14	10/06/21 06:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/05/21 14:14	10/06/21 06:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/05/21 14:14	10/06/21 06:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/05/21 14:14	10/06/21 06:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	10/05/21 14:14	10/06/21 06:47	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/05/21 14:14	10/06/21 06:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			10/06/21 08:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/06/21 11:13	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		10/05/21 08:23	10/05/21 16:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/05/21 08:23	10/05/21 16:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/05/21 08:23	10/05/21 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	10/05/21 08:23	10/05/21 16:56	1
o-Terphenyl	124		70 - 130	10/05/21 08:23	10/05/21 16:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2940		24.9		mg/Kg			10/05/21 11:24	5

Client Sample ID: FS01

Lab Sample ID: 890-1345-2

Date Collected: 09/30/21 10:10

Matrix: Solid

Date Received: 10/01/21 09:47

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/05/21 14:14	10/06/21 07:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/05/21 14:14	10/06/21 07:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/05/21 14:14	10/06/21 07:15	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/05/21 14:14	10/06/21 07:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/05/21 14:14	10/06/21 07:15	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/05/21 14:14	10/06/21 07:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	10/05/21 14:14	10/06/21 07:15	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1345-1
SDG: Eddy County

Client Sample ID: FS01

Lab Sample ID: 890-1345-2

Date Collected: 09/30/21 10:10

Matrix: Solid

Date Received: 10/01/21 09:47

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	111		70 - 130	10/05/21 14:14	10/06/21 07:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			10/06/21 08:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/06/21 11:13	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	<49.8	U	49.8		mg/Kg		10/05/21 08:23	10/05/21 17:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/05/21 08:23	10/05/21 17:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/05/21 08:23	10/05/21 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				10/05/21 08:23	10/05/21 17:18	1
o-Terphenyl	132	S1+	70 - 130				10/05/21 08:23	10/05/21 17:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2040		24.8		mg/Kg			10/05/21 11:30	5

Client Sample ID: FS02

Lab Sample ID: 890-1345-3

Date Collected: 09/30/21 10:12

Matrix: Solid

Date Received: 10/01/21 09:47

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		10/04/21 13:40	10/06/21 11:32	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		10/04/21 13:40	10/06/21 11:32	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		10/04/21 13:40	10/06/21 11:32	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		10/04/21 13:40	10/06/21 11:32	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		10/04/21 13:40	10/06/21 11:32	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		10/04/21 13:40	10/06/21 11:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130	10/04/21 13:40	10/06/21 11:32	1
1,4-Difluorobenzene (Surr)	79		70 - 130	10/04/21 13:40	10/06/21 11:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			10/06/21 08:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/06/21 11:13	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1345-1
SDG: Eddy County

Client Sample ID: FS02

Lab Sample ID: 890-1345-3

Date Collected: 09/30/21 10:12

Matrix: Solid

Date Received: 10/01/21 09:47

Sample Depth: 2

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	<50.0	U	50.0		mg/Kg		10/05/21 08:23	10/05/21 17:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/05/21 08:23	10/05/21 17:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/05/21 08:23	10/05/21 17:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				10/05/21 08:23	10/05/21 17:40	1
o-Terphenyl	126		70 - 130				10/05/21 08:23	10/05/21 17:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	164		4.98		mg/Kg			10/05/21 11:36	1

Client Sample ID: FS03

Lab Sample ID: 890-1345-4

Date Collected: 09/30/21 10:15

Matrix: Solid

Date Received: 10/01/21 09:47

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/04/21 13:48	10/11/21 06:29	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/04/21 13:48	10/11/21 06:29	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/04/21 13:48	10/11/21 06:29	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/04/21 13:48	10/11/21 06:29	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/04/21 13:48	10/11/21 06:29	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/04/21 13:48	10/11/21 06:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				10/04/21 13:48	10/11/21 06:29	1
1,4-Difluorobenzene (Surr)	110		70 - 130				10/04/21 13:48	10/11/21 06:29	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			10/11/21 10:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/06/21 11:13	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	<49.8	U	49.8		mg/Kg		10/05/21 08:23	10/05/21 18:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/05/21 08:23	10/05/21 18:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/05/21 08:23	10/05/21 18:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				10/05/21 08:23	10/05/21 18:01	1
o-Terphenyl	135	S1+	70 - 130				10/05/21 08:23	10/05/21 18:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1345-1
SDG: Eddy County

Client Sample ID: FS03
Date Collected: 09/30/21 10:15
Date Received: 10/01/21 09:47
Sample Depth: 2

Lab Sample ID: 890-1345-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.4		4.95		mg/Kg			10/05/21 11:41	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1345-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-6735-A-41-A MS	Matrix Spike	178 S1+	173 S1+
880-6735-A-41-B MSD	Matrix Spike Duplicate	101	117
890-1345-1	SW01	110	103
890-1345-2	FS01	122	111
890-1345-3	FS02	162 S1+	79
890-1345-3 MS	FS02	162 S1+	115
890-1345-3 MSD	FS02	96	113
890-1345-4	FS03	106	110
LCS 880-8805/1-A	Lab Control Sample	129	82
LCS 880-8833/1-A	Lab Control Sample	89	102
LCS 880-8923/1-A	Lab Control Sample	124	104
LCSD 880-8805/2-A	Lab Control Sample Dup	121	99
LCSD 880-8833/2-A	Lab Control Sample Dup	99	89
LCSD 880-8923/2-A	Lab Control Sample Dup	126	107
MB 880-8805/5-A	Method Blank	79	98
MB 880-8833/5-A	Method Blank	108	105
MB 880-8854/5-A	Method Blank	103	85
MB 880-8923/5-A	Method Blank	74	98
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-6735-A-42-C MS	Matrix Spike	103	98
880-6735-A-42-D MSD	Matrix Spike Duplicate	103	100
890-1345-1	SW01	109	124
890-1345-2	FS01	116	132 S1+
890-1345-3	FS02	113	126
890-1345-4	FS03	121	135 S1+
LCS 880-8877/2-A	Lab Control Sample	104	101
LCSD 880-8877/3-A	Lab Control Sample Dup	106	111
MB 880-8877/1-A	Method Blank	112	129
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1345-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8805/5-A

Matrix: Solid

Analysis Batch: 8924

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/04/21 13:40	10/06/21 11:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/04/21 13:40	10/06/21 11:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/04/21 13:40	10/06/21 11:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/04/21 13:40	10/06/21 11:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/04/21 13:40	10/06/21 11:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/04/21 13:40	10/06/21 11:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	10/04/21 13:40	10/06/21 11:06	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/04/21 13:40	10/06/21 11:06	1

Lab Sample ID: LCS 880-8805/1-A

Matrix: Solid

Analysis Batch: 8924

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07797		mg/Kg		78	70 - 130
Toluene	0.100	0.09079		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.08547		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	0.200	0.1834		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09472		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

Lab Sample ID: LCSD 880-8805/2-A

Matrix: Solid

Analysis Batch: 8924

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8805

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.07554		mg/Kg		76	70 - 130	3	35
Toluene	0.100	0.08417		mg/Kg		84	70 - 130	8	35
Ethylbenzene	0.100	0.08058		mg/Kg		81	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1755		mg/Kg		88	70 - 130	4	35
o-Xylene	0.100	0.09166		mg/Kg		92	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-1345-3 MS

Matrix: Solid

Analysis Batch: 8924

Client Sample ID: FS02

Prep Type: Total/NA

Prep Batch: 8805

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.100	0.03400	F1	mg/Kg		33	70 - 130
Toluene	<0.00199	U F1	0.100	0.02366	F1	mg/Kg		24	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1345-1
SDG: Eddy County

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

Lab Sample ID: 890-1345-3 MS

Matrix: Solid

Analysis Batch: 8924

Client Sample ID: FS02

Prep Type: Total/NA

Prep Batch: 8805

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U F1	0.100	0.03181	F1	mg/Kg		32	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.03645	F1	mg/Kg		18	70 - 130
o-Xylene	<0.00199	U F1	0.100	0.04584	F1	mg/Kg		46	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: 890-1345-3 MSD

Matrix: Solid

Analysis Batch: 8924

Client Sample ID: FS02

Prep Type: Total/NA

Prep Batch: 8805

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.100	0.03604	F1	mg/Kg		36	70 - 130	6	35
Toluene	<0.00199	U F1	0.100	0.02560	F1	mg/Kg		26	70 - 130	8	35
Ethylbenzene	<0.00199	U F1	0.100	0.03476	F1	mg/Kg		35	70 - 130	9	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.03011	F1	mg/Kg		15	70 - 130	19	35
o-Xylene	<0.00199	U F1	0.100	0.04205	F1	mg/Kg		42	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: MB 880-8833/5-A

Matrix: Solid

Analysis Batch: 9113

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8833

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/04/21 13:48	10/10/21 22:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/04/21 13:48	10/10/21 22:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/04/21 13:48	10/10/21 22:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/04/21 13:48	10/10/21 22:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/04/21 13:48	10/10/21 22:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/04/21 13:48	10/10/21 22:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	10/04/21 13:48	10/10/21 22:54	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/04/21 13:48	10/10/21 22:54	1

Lab Sample ID: LCS 880-8833/1-A

Matrix: Solid

Analysis Batch: 9113

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07652		mg/Kg		77	70 - 130
Toluene	0.100	0.09387		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09554		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1644		mg/Kg		82	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1345-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-8833/1-A

Matrix: Solid

Analysis Batch: 9113

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	0.100	0.07736		mg/Kg		77	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-8833/2-A

Matrix: Solid

Analysis Batch: 9113

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8833

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07139		mg/Kg		71	70 - 130	7	35
Toluene	0.100	0.09568		mg/Kg		96	70 - 130	2	35
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1676		mg/Kg		84	70 - 130	2	35
o-Xylene	0.100	0.08411		mg/Kg		84	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 880-6735-A-41-A MS

Matrix: Solid

Analysis Batch: 9113

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8833

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F2 F1	0.0998	0.01746	F1	mg/Kg		17	70 - 130
Toluene	<0.00199	U F2 F1	0.0998	0.1395	F1	mg/Kg		140	70 - 130
Ethylbenzene	<0.00199	U F2 F1	0.0998	0.08502		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.200	0.2150		mg/Kg		108	70 - 130
o-Xylene	<0.00199	U F1	0.0998	0.06562	F1	mg/Kg		66	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130
1,4-Difluorobenzene (Surr)	173	S1+	70 - 130

Lab Sample ID: 880-6735-A-41-B MSD

Matrix: Solid

Analysis Batch: 9113

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8833

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F2 F1	0.0998	0.05118	F2 F1	mg/Kg		51	70 - 130	98	35
Toluene	<0.00199	U F2 F1	0.0998	0.06268	F2 F1	mg/Kg		63	70 - 130	76	35
Ethylbenzene	<0.00199	U F2 F1	0.0998	0.05148	F2 F1	mg/Kg		52	70 - 130	49	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.200	0.1000	F2 F1	mg/Kg		50	70 - 130	73	35
o-Xylene	<0.00199	U F1	0.0998	0.05019	F1	mg/Kg		50	70 - 130	27	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1345-1
SDG: Eddy County

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

Lab Sample ID: 880-6735-A-41-B MSD

Matrix: Solid

Analysis Batch: 9113

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8833

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: MB 880-8854/5-A

Matrix: Solid

Analysis Batch: 9113

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8854

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/04/21 14:40	10/10/21 11:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/04/21 14:40	10/10/21 11:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/04/21 14:40	10/10/21 11:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/04/21 14:40	10/10/21 11:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/04/21 14:40	10/10/21 11:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/04/21 14:40	10/10/21 11:52	1

	MB	MB	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	10/04/21 14:40	10/10/21 11:52	1
1,4-Difluorobenzene (Surr)	10/04/21 14:40	10/10/21 11:52	1

Lab Sample ID: MB 880-8923/5-A

Matrix: Solid

Analysis Batch: 8924

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8923

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00000200	U	0.0000020		mg/Kg		10/05/21 14:14	10/05/21 21:12	1
Toluene	<0.00000200	U	0.0000020		mg/Kg		10/05/21 14:14	10/05/21 21:12	1
Ethylbenzene	<0.00000200	U	0.0000020		mg/Kg		10/05/21 14:14	10/05/21 21:12	1
m-Xylene & p-Xylene	<0.00000400	U	0.0000040		mg/Kg		10/05/21 14:14	10/05/21 21:12	1
o-Xylene	<0.00000200	U	0.0000020		mg/Kg		10/05/21 14:14	10/05/21 21:12	1
Xylenes, Total	<0.00000400	U	0.0000040		mg/Kg		10/05/21 14:14	10/05/21 21:12	1

	MB	MB	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	74		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	10/05/21 14:14	10/05/21 21:12	1
1,4-Difluorobenzene (Surr)	10/05/21 14:14	10/05/21 21:12	1

Lab Sample ID: LCS 880-8923/1-A

Matrix: Solid

Analysis Batch: 8924

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8923

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	
Benzene	0.100	0.1031		mg/Kg		103		70 - 130	
Toluene	0.100	0.1051		mg/Kg		105		70 - 130	
Ethylbenzene	0.100	0.1037		mg/Kg		104		70 - 130	

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1345-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-8923/1-A

Matrix: Solid

Analysis Batch: 8924

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8923

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	0.200	0.2268		mg/Kg		113	70 - 130
o-Xylene	0.100	0.1144		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-8923/2-A

Matrix: Solid

Analysis Batch: 8924

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8923

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1126		mg/Kg		113	70 - 130	9	35
Toluene	0.100	0.1175		mg/Kg		117	70 - 130	11	35
Ethylbenzene	0.100	0.1127		mg/Kg		113	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2467		mg/Kg		123	70 - 130	8	35
o-Xylene	0.100	0.1247		mg/Kg		125	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

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

Lab Sample ID: MB 880-8877/1-A

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8877

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/05/21 08:23	10/05/21 10:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/05/21 08:23	10/05/21 10:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/05/21 08:23	10/05/21 10:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	10/05/21 08:23	10/05/21 10:26	1
o-Terphenyl	129		70 - 130	10/05/21 08:23	10/05/21 10:26	1

Lab Sample ID: LCS 880-8877/2-A

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8877

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	884.0		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	920.7		mg/Kg		92	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1345-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-8877/2-A

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8877

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: LCSD 880-8877/3-A

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8877

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	928.7		mg/Kg		93	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	966.7		mg/Kg		97	70 - 130	5	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: 880-6735-A-42-C MS

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8877

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	943.1		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	995	854.2		mg/Kg		86	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: 880-6735-A-42-D MSD

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8877

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	979.0		mg/Kg		96	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	871.0		mg/Kg		87	70 - 130	2	20

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

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1345-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-8737/1-A

Matrix: Solid

Analysis Batch: 8836

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/05/21 08:30	1

Lab Sample ID: LCS 880-8737/2-A

Matrix: Solid

Analysis Batch: 8836

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	263.3		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-8737/3-A

Matrix: Solid

Analysis Batch: 8836

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	263.3		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-1344-A-61-B MS

Matrix: Solid

Analysis Batch: 8836

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	65.2		250	327.9		mg/Kg		105	90 - 110

Lab Sample ID: 890-1344-A-61-C MSD

Matrix: Solid

Analysis Batch: 8836

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	65.2		250	329.0		mg/Kg		106	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1345-1
SDG: Eddy County

GC VOA

Prep Batch: 8805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1345-3	FS02	Total/NA	Solid	5035	
MB 880-8805/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8805/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8805/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1345-3 MS	FS02	Total/NA	Solid	5035	
890-1345-3 MSD	FS02	Total/NA	Solid	5035	

Prep Batch: 8833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1345-4	FS03	Total/NA	Solid	5035	
MB 880-8833/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8833/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8833/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6735-A-41-A MS	Matrix Spike	Total/NA	Solid	5035	
880-6735-A-41-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 8854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8854/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 8923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1345-1	SW01	Total/NA	Solid	5035	
890-1345-2	FS01	Total/NA	Solid	5035	
MB 880-8923/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8923/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8923/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 8924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1345-1	SW01	Total/NA	Solid	8021B	8923
890-1345-2	FS01	Total/NA	Solid	8021B	8923
890-1345-3	FS02	Total/NA	Solid	8021B	8805
MB 880-8805/5-A	Method Blank	Total/NA	Solid	8021B	8805
MB 880-8923/5-A	Method Blank	Total/NA	Solid	8021B	8923
LCS 880-8805/1-A	Lab Control Sample	Total/NA	Solid	8021B	8805
LCS 880-8923/1-A	Lab Control Sample	Total/NA	Solid	8021B	8923
LCSD 880-8805/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8805
LCSD 880-8923/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8923
890-1345-3 MS	FS02	Total/NA	Solid	8021B	8805
890-1345-3 MSD	FS02	Total/NA	Solid	8021B	8805

Analysis Batch: 8960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1345-1	SW01	Total/NA	Solid	Total BTEX	
890-1345-2	FS01	Total/NA	Solid	Total BTEX	
890-1345-3	FS02	Total/NA	Solid	Total BTEX	

Analysis Batch: 9113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1345-4	FS03	Total/NA	Solid	8021B	8833

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1345-1
SDG: Eddy County

GC VOA (Continued)

Analysis Batch: 9113 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8833/5-A	Method Blank	Total/NA	Solid	8021B	8833
MB 880-8854/5-A	Method Blank	Total/NA	Solid	8021B	8854
LCS 880-8833/1-A	Lab Control Sample	Total/NA	Solid	8021B	8833
LCSD 880-8833/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8833
880-6735-A-41-A MS	Matrix Spike	Total/NA	Solid	8021B	8833
880-6735-A-41-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	8833

Analysis Batch: 9138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1345-4	FS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 8871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1345-1	SW01	Total/NA	Solid	8015B NM	8877
890-1345-2	FS01	Total/NA	Solid	8015B NM	8877
890-1345-3	FS02	Total/NA	Solid	8015B NM	8877
890-1345-4	FS03	Total/NA	Solid	8015B NM	8877
MB 880-8877/1-A	Method Blank	Total/NA	Solid	8015B NM	8877
LCS 880-8877/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8877
LCSD 880-8877/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8877
880-6735-A-42-C MS	Matrix Spike	Total/NA	Solid	8015B NM	8877
880-6735-A-42-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	8877

Prep Batch: 8877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1345-1	SW01	Total/NA	Solid	8015NM Prep	
890-1345-2	FS01	Total/NA	Solid	8015NM Prep	
890-1345-3	FS02	Total/NA	Solid	8015NM Prep	
890-1345-4	FS03	Total/NA	Solid	8015NM Prep	
MB 880-8877/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8877/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8877/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6735-A-42-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6735-A-42-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 8973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1345-1	SW01	Total/NA	Solid	8015 NM	
890-1345-2	FS01	Total/NA	Solid	8015 NM	
890-1345-3	FS02	Total/NA	Solid	8015 NM	
890-1345-4	FS03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 8737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1345-1	SW01	Soluble	Solid	DI Leach	
890-1345-2	FS01	Soluble	Solid	DI Leach	
890-1345-3	FS02	Soluble	Solid	DI Leach	
890-1345-4	FS03	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1345-1
SDG: Eddy County

HPLC/IC (Continued)

Leach Batch: 8737 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8737/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8737/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8737/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1344-A-61-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1344-A-61-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 8836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1345-1	SW01	Soluble	Solid	300.0	8737
890-1345-2	FS01	Soluble	Solid	300.0	8737
890-1345-3	FS02	Soluble	Solid	300.0	8737
890-1345-4	FS03	Soluble	Solid	300.0	8737
MB 880-8737/1-A	Method Blank	Soluble	Solid	300.0	8737
LCS 880-8737/2-A	Lab Control Sample	Soluble	Solid	300.0	8737
LCSD 880-8737/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8737
890-1344-A-61-B MS	Matrix Spike	Soluble	Solid	300.0	8737
890-1344-A-61-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	8737

Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1345-1
SDG: Eddy County

Client Sample ID: SW01

Lab Sample ID: 890-1345-1

Date Collected: 09/30/21 10:05

Matrix: Solid

Date Received: 10/01/21 09:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8923	10/05/21 14:14	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8924	10/06/21 06:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8960	10/06/21 08:52	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 11:13	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8877	10/05/21 08:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8871	10/05/21 16:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8737	10/01/21 12:19	CA	XEN MID
Soluble	Analysis	300.0		5			8836	10/05/21 11:24	CH	XEN MID

Client Sample ID: FS01

Lab Sample ID: 890-1345-2

Date Collected: 09/30/21 10:10

Matrix: Solid

Date Received: 10/01/21 09:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8923	10/05/21 14:14	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8924	10/06/21 07:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8960	10/06/21 08:52	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 11:13	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8877	10/05/21 08:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8871	10/05/21 17:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8737	10/01/21 12:19	CA	XEN MID
Soluble	Analysis	300.0		5			8836	10/05/21 11:30	CH	XEN MID

Client Sample ID: FS02

Lab Sample ID: 890-1345-3

Date Collected: 09/30/21 10:12

Matrix: Solid

Date Received: 10/01/21 09:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8805	10/04/21 13:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8924	10/06/21 11:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8960	10/06/21 08:52	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 11:13	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8877	10/05/21 08:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8871	10/05/21 17:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8737	10/01/21 12:19	CA	XEN MID
Soluble	Analysis	300.0		1			8836	10/05/21 11:36	CH	XEN MID

Client Sample ID: FS03

Lab Sample ID: 890-1345-4

Date Collected: 09/30/21 10:15

Matrix: Solid

Date Received: 10/01/21 09:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	8833	10/04/21 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9113	10/11/21 06:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9138	10/11/21 10:32	KL	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1345-1
SDG: Eddy County

Client Sample ID: FS03
Date Collected: 09/30/21 10:15
Date Received: 10/01/21 09:47

Lab Sample ID: 890-1345-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8973	10/06/21 11:13	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8877	10/05/21 08:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8871	10/05/21 18:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8737	10/01/21 12:19	CA	XEN MID
Soluble	Analysis	300.0		1			8836	10/05/21 11:41	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.
Project/Site: East Pecos 22-5H

Job ID: 890-1345-1
SDG: Eddy County

Laboratory: Eurofins Xenco, Midland

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

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

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1345-1
SDG: Eddy County

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

Sample Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1345-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1345-1	SW01	Solid	09/30/21 10:05	10/01/21 09:47	0 - 2
890-1345-2	FS01	Solid	09/30/21 10:10	10/01/21 09:47	2
890-1345-3	FS02	Solid	09/30/21 10:12	10/01/21 09:47	2
890-1345-4	FS03	Solid	09/30/21 10:15	10/01/21 09:47	2

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Environment Testing

Xenco

Chain of Custody

Houston, TX (281) 240-4200; Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440; San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443; Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550; Carlsbad, NM (575) 988-3199

Work Order No:

Page _____ of _____
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Work Order Comments									
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>									
State of Project:									
Reporting: Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>									
Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:									

Project Manager:	Joseph Hernandez		Bill to: (if different)	Jim Raley
Company Name:	WSP USA		Company Name:	WPX Energy
Address:	3300 N A Street		Address:	5315 Buena Vista Dr.
City, State ZIP:	Midland, TX 79705		City, State ZIP:	Carlsbad, NM 88220
Phone:	781 702-2329		Email:	anna-buys@wsp.com

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Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$45.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated in writing. Eurofins Xenco. A minimum charge of \$45.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated in writing. Eurofins Xenco.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	<i>Anna Byers</i>	<i>Steve Giff</i>	10.12.09			
3						

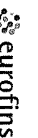
Revised Date: 08/25/2020 Rev. 2020.2

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Eurofins Xenco, Carlsbad

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

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:									
Client Contact:		Phone:	Kramer Jessica		890-440 1									
Shipping/Receiving		E-Mail	jessica.kramer@eurofins.com	State of Origin	Page: 1 of 1									
Company		Accreditations Required (See note):		New Mexico	Job #:									
Eurofins Xenco		NELAP - Texas			890-1345-1									
Address		Due Date Requested	Analysis Requested											
1211 W Florida Ave.		10/7/2021												
City		TAT Requested (days)												
Midland														
State Zip:														
TX 79701														
Phone		PO #:												
432-04-5440(Tel)														
Email		WFO #:												
Project Name		Project #:												
East Pecos 22-5h		88000203												
Site		SSOW#:												
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, Oil, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_NM/8015NM_S_Prep Full TPH	8021B/5035FP_Calc BTEX	8015MOD_Calc	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note
SW01 (890-1345-1)	9/30/21	10 05	Mountain	Solid	Water			X	X	X	X	X	1	
FS01 (890-1345-2)	9/30/21	10 10	Mountain	Solid	Water			X	X	X	X	X	1	
FS02 (890-1345-3)	9/30/21	10 12	Mountain	Solid	Water			X	X	X	X	X	1	
FS03 (890-1345-4)	9/30/21	10 15	Mountain	Solid	Water			X	X	X	X	X	1	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.</p>														
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested I II III IV Other (specify)</p> <p>Primary Deliverable Rank 2</p> <p>Special Instructions/QC Requirements</p> <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p>Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months</p>														
Empty Kit Relinquished by:		Date	Time	Method of Shipment:										
Relinquished by: <i>[Signature]</i>		10/11/21		Received by: <i>[Signature]</i>										
Relinquished by:		Date/Time		Received by: <i>[Signature]</i>										
Relinquished by:		Date/Time		Received by: <i>[Signature]</i>										
Custody Seals Intact:		Custody Seal No	Cooler Temperature(s) °C and other Remarks											
Δ Yes Δ No			21.1, 2.6											

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1345-1

SDG Number: Eddy County

Login Number: 1345

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1345-1

SDG Number: Eddy County

Login Number: 1345

List Source: Eurofins Xenco, Midland

List Number: 2

List Creation: 10/04/21 09:20 AM

Creator: Copeland, Tatiana

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1 / 2.6
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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1346-1

Laboratory Sample Delivery Group: Eddy County
Client Project/Site: East Pecos 22-5H

For:

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

Attn: Joseph Hernandez

A handwritten signature in black ink that reads "J. Kramer".

Authorized for release by:
10/6/2021 12:04:49 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.

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Laboratory Job ID: 890-1346-1
SDG: Eddy County

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1346-1
SDG: Eddy County

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1346-1
SDG: Eddy County

Job ID: 890-1346-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

**Job Narrative
890-1346-1**

Receipt

The samples were received on 10/1/2021 9:47 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 2.8°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 sample was outside control limits: (880-6735-A-42-B). 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 880-8731 and analytical batch 880-8851 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 Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1346-1
SDG: Eddy County

Client Sample ID: PH08

Lab Sample ID: 890-1346-1

Date Collected: 09/30/21 10:55

Matrix: Solid

Date Received: 10/01/21 09:47

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/04/21 09:44	10/05/21 07:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/04/21 09:44	10/05/21 07:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/04/21 09:44	10/05/21 07:18	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/04/21 09:44	10/05/21 07:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/04/21 09:44	10/05/21 07:18	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/04/21 09:44	10/05/21 07:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	10/04/21 09:44	10/05/21 07:18	1
1,4-Difluorobenzene (Surr)	73		70 - 130	10/04/21 09:44	10/05/21 07:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			10/04/21 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/06/21 11:13	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	<49.8	U	49.8		mg/Kg		10/05/21 08:23	10/05/21 18:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/05/21 08:23	10/05/21 18:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/05/21 08:23	10/05/21 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	10/05/21 08:23	10/05/21 18:22	1
o-Terphenyl	125		70 - 130	10/05/21 08:23	10/05/21 18:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		5.04		mg/Kg			10/05/21 11:47	1

Client Sample ID: PH08

Lab Sample ID: 890-1346-2

Date Collected: 09/30/21 11:05

Matrix: Solid

Date Received: 10/01/21 09:47

Sample Depth: 4

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		10/04/21 09:44	10/05/21 07:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/04/21 09:44	10/05/21 07:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/04/21 09:44	10/05/21 07:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/04/21 09:44	10/05/21 07:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/04/21 09:44	10/05/21 07:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/04/21 09:44	10/05/21 07:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	10/04/21 09:44	10/05/21 07:39	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1346-1
SDG: Eddy County

Client Sample ID: PH08

Lab Sample ID: 890-1346-2

Date Collected: 09/30/21 11:05

Matrix: Solid

Date Received: 10/01/21 09:47

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	76		70 - 130	10/04/21 09:44	10/05/21 07:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			10/04/21 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/06/21 11:13	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		10/05/21 08:23	10/05/21 18:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/05/21 08:23	10/05/21 18:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/05/21 08:23	10/05/21 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				10/05/21 08:23	10/05/21 18:42	1
o-Terphenyl	120		70 - 130				10/05/21 08:23	10/05/21 18:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.1		5.01		mg/Kg			10/05/21 11:52	1

Client Sample ID: PH09

Lab Sample ID: 890-1346-3

Date Collected: 09/30/21 11:10

Matrix: Solid

Date Received: 10/01/21 09:47

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/04/21 09:44	10/05/21 07:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/04/21 09:44	10/05/21 07:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/04/21 09:44	10/05/21 07:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/04/21 09:44	10/05/21 07:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/04/21 09:44	10/05/21 07:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/04/21 09:44	10/05/21 07:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	10/04/21 09:44	10/05/21 07:59	1
1,4-Difluorobenzene (Surr)	79		70 - 130	10/04/21 09:44	10/05/21 07:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			10/04/21 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/06/21 11:13	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1346-1
SDG: Eddy County

Client Sample ID: PH09

Lab Sample ID: 890-1346-3

Date Collected: 09/30/21 11:10

Matrix: Solid

Date Received: 10/01/21 09:47

Sample Depth: 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		10/05/21 08:23	10/05/21 19:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/05/21 08:23	10/05/21 19:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/05/21 08:23	10/05/21 19:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				10/05/21 08:23	10/05/21 19:03	1
o-Terphenyl	112		70 - 130				10/05/21 08:23	10/05/21 19:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.2		4.99		mg/Kg			10/05/21 11:58	1

Client Sample ID: PH09

Lab Sample ID: 890-1346-4

Date Collected: 09/30/21 11:15

Matrix: Solid

Date Received: 10/01/21 09:47

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/04/21 09:44	10/05/21 08:20	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/04/21 09:44	10/05/21 08:20	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/04/21 09:44	10/05/21 08:20	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/04/21 09:44	10/05/21 08:20	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/04/21 09:44	10/05/21 08:20	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/04/21 09:44	10/05/21 08:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				10/04/21 09:44	10/05/21 08:20	1
1,4-Difluorobenzene (Surr)	76		70 - 130				10/04/21 09:44	10/05/21 08:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			10/04/21 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/06/21 11:13	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	<50.0	U	50.0		mg/Kg		10/05/21 08:23	10/05/21 19:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/05/21 08:23	10/05/21 19:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/05/21 08:23	10/05/21 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				10/05/21 08:23	10/05/21 19:23	1
o-Terphenyl	117		70 - 130				10/05/21 08:23	10/05/21 19:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1346-1
SDG: Eddy County

Client Sample ID: PH09
Date Collected: 09/30/21 11:15
Date Received: 10/01/21 09:47
Sample Depth: 4

Lab Sample ID: 890-1346-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.1		4.98		mg/Kg			10/05/21 09:51	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1346-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1346-1	PH08	127	73
890-1346-2	PH08	124	76
890-1346-3	PH09	111	79
890-1346-4	PH09	130	76
890-1349-A-1-B MSD	Matrix Spike Duplicate	252 S1+	80
890-1349-A-1-C MS	Matrix Spike	253 S1+	84
LCS 880-8788/1-A	Lab Control Sample	109	86
LCSD 880-8788/2-A	Lab Control Sample Dup	118	86
MB 880-8787/5-A	Method Blank	110	78
MB 880-8788/5-A	Method Blank	112	79
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-6735-A-42-C MS	Matrix Spike	103	98
880-6735-A-42-D MSD	Matrix Spike Duplicate	103	100
890-1346-1	PH08	108	125
890-1346-2	PH08	110	120
890-1346-3	PH09	104	112
890-1346-4	PH09	106	117
LCS 880-8877/2-A	Lab Control Sample	104	101
LCSD 880-8877/3-A	Lab Control Sample Dup	106	111
MB 880-8877/1-A	Method Blank	112	129
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1346-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8787/5-A

Matrix: Solid

Analysis Batch: 8791

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8787

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/04/21 09:41	10/04/21 13:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/04/21 09:41	10/04/21 13:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/04/21 09:41	10/04/21 13:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/04/21 09:41	10/04/21 13:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/04/21 09:41	10/04/21 13:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/04/21 09:41	10/04/21 13:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	10/04/21 09:41	10/04/21 13:35	1
1,4-Difluorobenzene (Surr)	78		70 - 130	10/04/21 09:41	10/04/21 13:35	1

Lab Sample ID: MB 880-8788/5-A

Matrix: Solid

Analysis Batch: 8791

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8788

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/04/21 09:44	10/05/21 00:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/04/21 09:44	10/05/21 00:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/04/21 09:44	10/05/21 00:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/04/21 09:44	10/05/21 00:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/04/21 09:44	10/05/21 00:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/04/21 09:44	10/05/21 00:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	10/04/21 09:44	10/05/21 00:29	1
1,4-Difluorobenzene (Surr)	79		70 - 130	10/04/21 09:44	10/05/21 00:29	1

Lab Sample ID: LCS 880-8788/1-A

Matrix: Solid

Analysis Batch: 8791

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8788

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09716		mg/Kg		97	70 - 130
Toluene	0.100	0.09892		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.09741		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.2010		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1000		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-8788/2-A

Matrix: Solid

Analysis Batch: 8791

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8788

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1068		mg/Kg		107	70 - 130	9	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1346-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-8788/2-A

Matrix: Solid

Analysis Batch: 8791

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8788

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.1073		mg/Kg		107	70 - 130	8	35
Ethylbenzene	0.100	0.1075		mg/Kg		108	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2226		mg/Kg		111	70 - 130	10	35
o-Xylene	0.100	0.1104		mg/Kg		110	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 890-1349-A-1-B MSD

Matrix: Solid

Analysis Batch: 8791

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8788

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.05974		mg/Kg					
Toluene	<0.00199	U	0.100	0.05418		mg/Kg					
Ethylbenzene	0.104		0.100	0.2124		mg/Kg					
m-Xylene & p-Xylene	0.0370		0.200	0.1299		mg/Kg					
o-Xylene	0.147		0.100	0.2979		mg/Kg					

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	252	S1+	70 - 130
1,4-Difluorobenzene (Surr)	80		70 - 130

Lab Sample ID: 890-1349-A-1-C MS

Matrix: Solid

Analysis Batch: 8791

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8788

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	253	S1+	70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

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

Lab Sample ID: MB 880-8877/1-A

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8877

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/05/21 08:23	10/05/21 10:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/05/21 08:23	10/05/21 10:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/05/21 08:23	10/05/21 10:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	10/05/21 08:23	10/05/21 10:26	1
o-Terphenyl	129		70 - 130	10/05/21 08:23	10/05/21 10:26	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1346-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-8877/2-A

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8877

Analyte			Spike	LCS	LCS	Unit	D	%Rec.		
			Added	Result	Qualifier			%Rec		
Gasoline Range Organics (GRO)-C6-C10			1000	884.0		mg/Kg		88	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	920.7		mg/Kg		92	70 - 130	

Lab Sample ID: LCSD 880-8877/3-A

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8877

Top Data: 06/11/2017											
Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
			Added	Result	Qualifier				Limits	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	928.7		mg/Kg		93	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	966.7		mg/Kg		97	70 - 130	5	20
Bottom Data: 06/11/2017											
Surrogate	LCSD		Limits								
	%Recovery	Qualifier									
1-Chlorooctane	106		70 - 130								
o-Terphenyl	111		70 - 130								

Lab Sample ID: 880-6735-A-42-C MS

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8877

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	943.1		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	995	854.2		mg/Kg		86	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	103		70 - 130								
o-Terphenyl	98		70 - 130								

Lab Sample ID: 880-6735-A-42-D MSD

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8877

	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	997	979.0		mg/Kg		96	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	871.0		mg/Kg		87	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	103		70 - 130								

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1346-1
SDG: Eddy County

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

Lab Sample ID: 880-6735-A-42-D MSD

Matrix: Solid

Analysis Batch: 8871

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8877

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	100		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-8737/1-A

Matrix: Solid

Analysis Batch: 8836

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00		mg/Kg			10/05/21 08:30		1

Lab Sample ID: LCS 880-8737/2-A

Matrix: Solid

Analysis Batch: 8836

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	263.3		mg/Kg		105	90 - 110	

Lab Sample ID: LCSD 880-8737/3-A

Matrix: Solid

Analysis Batch: 8836

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	263.3		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-1344-A-61-B MS

Matrix: Solid

Analysis Batch: 8836

Client Sample ID: Matrix Spike

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	65.2		250	327.9		mg/Kg		105	90 - 110		

Lab Sample ID: 890-1344-A-61-C MSD

Matrix: Solid

Analysis Batch: 8836

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	65.2		250	329.0		mg/Kg		106	90 - 110	0	20

Lab Sample ID: MB 880-8731/1-A

Matrix: Solid

Analysis Batch: 8851

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00		mg/Kg			10/05/21 08:11		1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1346-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-8731/2-A

Matrix: Solid

Analysis Batch: 8851

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	266.7		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-8731/3-A

Matrix: Solid

Analysis Batch: 8851

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	266.6		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 890-1347-A-1-E MS

Matrix: Solid

Analysis Batch: 8851

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	244	F1	250	529.5	F1	mg/Kg		114	90 - 110		

Lab Sample ID: 890-1347-A-1-F MSD

Matrix: Solid

Analysis Batch: 8851

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	244	F1	250	515.3		mg/Kg		109	90 - 110	3	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1346-1
SDG: Eddy County

GC VOA

Prep Batch: 8787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8787/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 8788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1346-1	PH08	Total/NA	Solid	5035	
890-1346-2	PH08	Total/NA	Solid	5035	
890-1346-3	PH09	Total/NA	Solid	5035	
890-1346-4	PH09	Total/NA	Solid	5035	
MB 880-8788/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8788/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8788/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1349-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
890-1349-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 8791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1346-1	PH08	Total/NA	Solid	8021B	8788
890-1346-2	PH08	Total/NA	Solid	8021B	8788
890-1346-3	PH09	Total/NA	Solid	8021B	8788
890-1346-4	PH09	Total/NA	Solid	8021B	8788
MB 880-8787/5-A	Method Blank	Total/NA	Solid	8021B	8787
MB 880-8788/5-A	Method Blank	Total/NA	Solid	8021B	8788
LCS 880-8788/1-A	Lab Control Sample	Total/NA	Solid	8021B	8788
LCSD 880-8788/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8788
890-1349-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	8788
890-1349-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	8788

Analysis Batch: 8859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1346-1	PH08	Total/NA	Solid	Total BTEX	
890-1346-2	PH08	Total/NA	Solid	Total BTEX	
890-1346-3	PH09	Total/NA	Solid	Total BTEX	
890-1346-4	PH09	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 8871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1346-1	PH08	Total/NA	Solid	8015B NM	8877
890-1346-2	PH08	Total/NA	Solid	8015B NM	8877
890-1346-3	PH09	Total/NA	Solid	8015B NM	8877
890-1346-4	PH09	Total/NA	Solid	8015B NM	8877
MB 880-8877/1-A	Method Blank	Total/NA	Solid	8015B NM	8877
LCS 880-8877/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8877
LCSD 880-8877/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8877
880-6735-A-42-C MS	Matrix Spike	Total/NA	Solid	8015B NM	8877
880-6735-A-42-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	8877

Prep Batch: 8877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1346-1	PH08	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1346-1
SDG: Eddy County

GC Semi VOA (Continued)

Prep Batch: 8877 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1346-2	PH08	Total/NA	Solid	8015NM Prep	
890-1346-3	PH09	Total/NA	Solid	8015NM Prep	
890-1346-4	PH09	Total/NA	Solid	8015NM Prep	
MB 880-8877/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8877/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8877/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6735-A-42-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6735-A-42-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 8973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1346-1	PH08	Total/NA	Solid	8015 NM	
890-1346-2	PH08	Total/NA	Solid	8015 NM	
890-1346-3	PH09	Total/NA	Solid	8015 NM	
890-1346-4	PH09	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 8731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1346-4	PH09	Soluble	Solid	DI Leach	
MB 880-8731/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8731/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8731/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1347-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1347-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 8737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1346-1	PH08	Soluble	Solid	DI Leach	
890-1346-2	PH08	Soluble	Solid	DI Leach	
890-1346-3	PH09	Soluble	Solid	DI Leach	
MB 880-8737/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8737/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8737/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1344-A-61-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1344-A-61-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 8836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1346-1	PH08	Soluble	Solid	300.0	8737
890-1346-2	PH08	Soluble	Solid	300.0	8737
890-1346-3	PH09	Soluble	Solid	300.0	8737
MB 880-8737/1-A	Method Blank	Soluble	Solid	300.0	8737
LCS 880-8737/2-A	Lab Control Sample	Soluble	Solid	300.0	8737
LCSD 880-8737/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8737
890-1344-A-61-B MS	Matrix Spike	Soluble	Solid	300.0	8737
890-1344-A-61-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	8737

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1346-1
SDG: Eddy County

HPLC/IC

Analysis Batch: 8851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1346-4	PH09	Soluble	Solid	300.0	8731
MB 880-8731/1-A	Method Blank	Soluble	Solid	300.0	8731
LCS 880-8731/2-A	Lab Control Sample	Soluble	Solid	300.0	8731
LCSD 880-8731/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8731
890-1347-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	8731
890-1347-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	8731

Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1346-1
SDG: Eddy County

Client Sample ID: PH08

Lab Sample ID: 890-1346-1

Date Collected: 09/30/21 10:55

Matrix: Solid

Date Received: 10/01/21 09:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8788	10/04/21 09:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8791	10/05/21 07:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8859	10/04/21 15:27	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 11:13	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8877	10/05/21 08:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8871	10/05/21 18:22	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8737	10/01/21 12:19	CA	XEN MID
Soluble	Analysis	300.0		1			8836	10/05/21 11:47	CH	XEN MID

Client Sample ID: PH08

Lab Sample ID: 890-1346-2

Date Collected: 09/30/21 11:05

Matrix: Solid

Date Received: 10/01/21 09:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8788	10/04/21 09:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8791	10/05/21 07:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8859	10/04/21 15:27	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 11:13	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8877	10/05/21 08:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8871	10/05/21 18:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8737	10/01/21 12:19	CA	XEN MID
Soluble	Analysis	300.0		1			8836	10/05/21 11:52	CH	XEN MID

Client Sample ID: PH09

Lab Sample ID: 890-1346-3

Date Collected: 09/30/21 11:10

Matrix: Solid

Date Received: 10/01/21 09:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8788	10/04/21 09:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8791	10/05/21 07:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8859	10/04/21 15:27	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8973	10/06/21 11:13	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8877	10/05/21 08:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8871	10/05/21 19:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8737	10/01/21 12:19	CA	XEN MID
Soluble	Analysis	300.0		1			8836	10/05/21 11:58	CH	XEN MID

Client Sample ID: PH09

Lab Sample ID: 890-1346-4

Date Collected: 09/30/21 11:15

Matrix: Solid

Date Received: 10/01/21 09:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	8788	10/04/21 09:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8791	10/05/21 08:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8859	10/04/21 15:27	KL	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1346-1
SDG: Eddy County

Client Sample ID: PH09
Date Collected: 09/30/21 11:15
Date Received: 10/01/21 09:47

Lab Sample ID: 890-1346-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8973	10/06/21 11:13	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8877	10/05/21 08:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8871	10/05/21 19:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8731	10/01/21 12:05	CA	XEN MID
Soluble	Analysis	300.0		1			8851	10/05/21 09:51	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.
Project/Site: East Pecos 22-5H

Job ID: 890-1346-1
SDG: Eddy County

Laboratory: Eurofins Xenco, Midland

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

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

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1346-1
SDG: Eddy County

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

Sample Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-5H

Job ID: 890-1346-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1346-1	PH08	Solid	09/30/21 10:55	10/01/21 09:47	1
890-1346-2	PH08	Solid	09/30/21 11:05	10/01/21 09:47	4
890-1346-3	PH09	Solid	09/30/21 11:10	10/01/21 09:47	1
890-1346-4	PH09	Solid	09/30/21 11:15	10/01/21 09:47	4

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing
Xenco



Work Order No: _____

www.xenco.com Page _____ of _____

Project Manager: Joseph Hernandez		Bill to: (if different)	
Company Name: WSP USA		Company Name: WSP Energy	
Address: 3300 N A Street		Address: 5315 Buena Vista Dr.	
City, State ZIP: Midland, TX 79705		City, State ZIP: Carlsbad, NM 88220	
Phone: (281) 702-2329		Email: anna.byers@wsp.com	

Project Name: East Pecos 22-5H		Turn Around	
Project Number: 31403360.010		Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Project Location: Eddy County		Due Date:	
Sampler's Name: Anna Byers		TAT starts the day received by the lab, if received by 4:30pm	
PO #: NAPP2126345192		Wet Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

SAMPLE RECEIPT		Temp Blank: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID: TMM-07	
Samples Received Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Correction Factor: N/A		Temperature Reading: 3.0	
Cooler Custody Seals: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Temperature: 2.8		Corrected Temperature:	
Sample Custody Seals: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Temperature Reading: 3.0		Corrected Temperature:	
Total Containers:		Temperature: 2.8		Corrected Temperature:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code	ANALYSIS REQUEST	Preservative Codes
PH08	S	9/30/21	1055	1'	Grab	1	TPH (EPA 8015 mod)			None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₅ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SACP
PH08	S	9/30/21	1105	4'	↓	1	BTEX (EPA 80218)			DI Water: H ₂ O MeOH: Me HNO ₃ : HN NaOH: Na
PH09	S	9/30/21	1110	1'	↓	1	Chloride (EPA 300.0)			Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₅ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SACP
PH09	S	9/30/21	1115	4'	↓	1				

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
Anna Byers	Joe Culp	10-1-21 0947	2
		4	4
		6	6

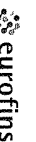
Revised Date: 08/25/2020 Rev. 2020.2

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Eurofins Xenco, Carlsbad

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

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)		COC No:			
Client Contact:	Phone		Kramer, Jessica			890-440-1			
Shipping/Receiving	E-Mail:	jessica.kramer@eurofinsnet.com		State of Origin	Page 1 of 1				
Company:	Accreditations Required (See note)	NELAP - Texas		New Mexico	Job #:				
Eurofins Xenco					890-1346-1				
Address	Due Date Requested	10/7/2021		Preservation Codes					
1211 W. Florida Ave.				A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. Anchor H. Acetic Acid I. Ice J. DI Water K. EDTA L. EDA M. Hexane N. None O. AsNaO2 P. Na2CO3 Q. Na2SO3 R. Na2S2O3 S. H2SO4 T. TSP Decahydrate U. Acetone V. MCAA W. pH 4-5 Z. other (specify)					
City:	TAT Requested (days):	Midland		Analysis Requested					
State Zip		TX 79701							
Phone:	FO #:	432-704-5440(Tel)							
Email	WO #:								
Project Name:	Project #:	East Pecos 22-5h							
Site	SSOW#:	86000203							
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=ore, L=leach, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note.
PH08 (890-1346-1)	9/30/21	10 55	Mountain	Solid		X	X	X	
PH08 (890-1346-2)	9/30/21	11 05	Mountain	Solid		X	X	X	
PH09 (890-1346-3)	9/30/21	11 10	Mountain	Solid		X	X	X	
PH09 (890-1346-4)	9/30/21	11 15	Mountain	Solid		X	X	X	
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.									
Possible Hazard Identification									
Unconfirmed									
Deliverable Requested I II III IV Other (specify)									
Primary Deliverable Rank 2									
Empty Kit Relinquished by									
Relinquished by									
Relinquished by									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No									
Custody Seal No									
Cooler Temperature (°C) and Other Remarks									
21.2.6									

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1346-1

SDG Number: Eddy County

Login Number: 1346

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 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: 890-1346-1

SDG Number: Eddy County

Login Number: 1346

List Source: Eurofins Xenco, Midland

List Number: 2

List Creation: 10/04/21 09:22 AM

Creator: Copeland, Tatiana

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1 / 2.6
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	

ATTACHMENT 5: [ADD TITLE]

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

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

CONDITIONS

Action 85756

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 85756
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please apply 19.15.29.13 NMAC when completing P&A at the site.	3/14/2022