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 Page leof 166

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

)

Incident ID	nAPP2116548791
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) nAPP2116548791
Contact mailing address: 5315 Buena Vista Dr., Carlsbad NM 88220	

Location of Release Source

Latitude 32.0175972_

Longitude -103.9520569 (NAD 83 in decimal degrees to 5 decimal places)

Site Name: HOLLY A FEDERAL #006	Site Type: Oil Production Facility
Date Release Discovered: June 13 th , 2021	API# (if applicable) 30-015-25331

Unit Letter	Section	Township	Range	County
В	26	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)

Crude Oil	Volume Released (bbls) 1	Volume Recovered (bbls) 0
Produced Water	Volume Released (bbls) 29	Volume Recovered (bbls) 20
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release: Hole d	eveloped in bottom of production tank, allowing release	e of fluids to secondary containment.
$bbl estimate = \frac{satura}{4.2}$	$\frac{ted soil volume (ft^3)}{ft^3} * estimated soil porosity(\%) + 21(\frac{ft^3}{(bbl equivalent)})$	- recovered fluids (bbl)

eived by OCD: 9/1/2021	7357:16 AM State of New Mexico		Page 2cof i
m C-141		Incident ID	nAPP2116548791
je 2	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	
Was this a major release as defined by 19.15.29.7(A) NMAC? Yes No	If YES, for what reason(s) does the responsible par Volume exceeded 25 bbls		
	otice given to the OCD? By whom? To whom? When when the other of the other than the other the ot		email, etc)?

Initial Response

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

 \square The source of the release has been stopped.

P

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

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

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

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

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:James Raley	Title: Environmental Specialist
Signature:	Date:06/22/2021
email:jim.raley@dvn.com	Telephone:575-689-7597
OCD Only	
Received by: Ramona Marcus	Date:6/28/2021

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

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	33251
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Created By	Condition	Condition Date
rmarcus	None	6/28/2021

CONDITIONS

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Action 33251

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Oil Conservation Division

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Incident ID	nAPP2116548791
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Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
 Field data
- $\overline{\nabla}$ Data table of soil contaminant concentration data
- \checkmark 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.

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			Incident ID	nAPP2116548791
age 4	Oil Conservation Div	1S10n	District RP	
			Facility ID	
			Application ID	
public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: Jim Rale Signature:	fin Roby	by the OCD does not relieve the set a threat to groundwater, sur crator of responsibility for com	he operator of liability sl face water, human healtl pliance with any other for nental Profession	hould their operations have h or the environment. In ederal, state, or local laws
_{email:} jim.raley.dvn.c		Telephone: 070-	565-1551	

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<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	nAPP2116548791
District RP	
Facility ID	
Application ID	

Remediation Plan

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points М Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. 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. ______{Title:} Environmental Professional Printed Name: Jim Raley fin Rily Date: 9/1/2021 Signature: email: jim.raley.dvn.com Telephone: 575-689-7597 OCD Only Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

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Page 5

WSP USA

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

August 22, 2021

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

RE: Remediation Work Plan Holly A Federal #006 Incident Number nAPP2116548791 Eddy County, New Mexico WPX Energy Permian, LLC.

To Whom it May Concern:

WSP USA Inc. (WSP), on behalf of WPX Energy Permian, LLC. (WPX), presents the following Remediation Work Plan detailing site assessment, previous soil sampling activities and an excavation plan at the Holly A Federal #006 (Site), located in Unit B, Section 26, Township 26 South, Range 29 East, Eddy County, New Mexico (Figure 1). Based on field observations, field screening activities, and laboratory analytical results from soil sampling activities, WPX is submitting this Remediation Work Plan, describing the site assessment and soil sampling that has occurred and proposed remedial activities.

RELEASE BACKGROUND

On June 13, 2021, a hole in the bottom of a production tank caused the release of approximately 1 barrel (bbl) of crude oil and 29 bbls of produced water into the secondary earthen containment. A vacuum truck was dispatched to the Site and recovered approximately 20 bbls of produced water. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on June 22, 2021 and was subsequently assigned Incident Number nAPP2116548791.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 50 feet below ground surface (bgs) based on the nearest water well data. The nearest permitted water well with depth to water data is United States Geological Survey (USGS) 320106103555301, located approximately 1/2-mile west of the Site. On February 24, 2021, measurements conducted by USGS determined the water well had a depth to groundwater of 53.46 feet bgs and a total depth

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District II Page 2

of 140 feet bgs. Ground surface elevation at the water well location is 2,883 feet above mean sea level (AMSL), which is approximately 33 feet lower in elevation than the Site. All wells used for depth to groundwater determination are depicted on Figure 1. The referenced well record is included as Attachment 1.

The closest continuously flowing or significant watercourse to the Site is an intermittent stream, located approximately 740 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

The reclamation requirement for removal of waste containing soil with chloride and TPH concentrations of 600 mg/kg and 100 mg/kg, respectively, applies to the top 4 feet of the pasture to be reclaimed following remediation, per NMAC 19.15.29.13.D (1).

SITE ASSESSMENT AND DELINEATION SOIL SAMPLING ACTIVITIES

On June 15, 2021, WSP personnel conducted site assessment activities to evaluate the release extent. WSP reviewed and verified the Form C-141 incident descriptions (release source and release location) with visual soil impacts present onsite; it was confirmed that the subject release was contained within the earthen berm.

WSP personnel collected one representative surface sample nearest to the release source. The soil sample was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. Based on elevated field screening results, the soil sample was not submitted for laboratory analysis. The release extent was mapped using a handheld Global Positioning System (GPS)



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unit, which is depicted on Figure 2. Based on visual observation and results from field screening, delineation of impacted soil within the earthen berm appeared warranted. Photographs documenting the site visit are included in Attachment 2.

On June 18, 2021, WSP personnel visited the Site for further evaluation of the release extent and proceeded to advance six delineation boreholes (BH01 through BH06) within the mapped release extent. Delineation depths were driven by field screening soil samples for and volatile aromatic hydrocarbons. WSP collected three discrete soil samples per borehole; one at 1 feet bgs in accordance with the highest field screening concentration, one at 4 feet bgs, and one at 6 feet bgs corresponding with the borehole terminus. The borehole locations were mapped utilizing a GPS unit and are depicted on Figure 2. Lithologic sampling logs are included in Attachment 3. Photographs documenting the site visit are included in Attachment 2.

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

LABORATORY ANALYTICAL RESULTS

TPH-GRO/TPH-DRO, TPH concentrations for borehole samples BH01 and BH03 exceeded the Closure Criteria standards at approximately 1-foot bgs. Additionally, BH01 located closest to the release source exceeded TPH-GRO/TPH-DRO and TPH concentration standards at 4 feet bgs. Vertical delineation was achieved as laboratory analytical results indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria for all borehole terminuses. The laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Attachment 4.

PROPOSED WORK PLAN

Impacts within the release have been defined through soil borings BH01 though BH06. WPX proposes to excavate hydrocarbon impacts present in the vicinity of BH01 and BH03 to meet Closure Criteria requirements. Based on laboratory analytical results of boreholes BH01 through BH06, WPX anticipates excavating up to 6 feet bgs over an approximated area of 530 square feet, which equates to approximately 120 cubic yards of impacted soil to be removed. Horizontal delineation will be achieved through 5-point composite sidewall samples.

Based on laboratory analytical results for delineation borehole BH02 and BH04 through BH06, no additional remediation efforts are required in those areas within the earthen containment affected by the subject release.

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CONCLUSION

Following successful removal of residual impacts as demonstrated through laboratory analytical results, a Closure Request or Deferral Request if soil impacts within the anticipated excavation area cannot be safely removed due to the configuration of the Site, will be provided to the NMOCD.

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

Sincerely,

WSP USA Inc.

anna Byers

Anna Byers Consultant, Geologist

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

cc: Jim Raley, Devon Bureau of Land Management

Attachments:

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

FIGURES



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P:\WPX-Devon\GIS\31403360.001.0348_HOLLY A FEDERAL #006\MXD\31403360.001.0348_FIG01_SL_RECEPTOR_2021.mxd



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P:\WPX-Devon\GIS\31403360.001.0348_HOLLY A FEDERAL #006\MXD\31403360.001.0348_FIG02_DELINEATION_2021_1.mxd

TABLES

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Table 1

Soil Analytical Results Holly A Federal #006 Incident Number nAPP2116548791 Eddy County, New Mexico WPX Energy Permian, LLC.

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total DRO+GRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	osure Criteria (NMA	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Samples										
BH01	06/18/2021	1	0.0258	1.77	1,730	257	367	1,990	2,350	6,680
BH01	06/18/2021	4	< 0.00200	0.0131	2,380	<49.7	757	2,380	3,140	158
BH01	06/18/2021	6	< 0.00202	< 0.00403	<49.7	<49.7	<49.7	<49.7	<49.7	153
BH02	06/18/2021	1	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	4,730
BH02	06/18/2021	4	< 0.00198	< 0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	11.2
BH02	06/18/2021	6	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	30.9
BH03	06/18/2021	1	< 0.00198	< 0.00396	10,400	<249	2,290	10,400	12,700	4,350
BH03	06/18/2021	4	< 0.00200	< 0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	600
BH03	06/18/2021	6	< 0.00200	< 0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	1,060
BH04	06/18/2021	1	< 0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	173
BH04	06/18/2021	4	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	334
BH04	06/18/2021	6	< 0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	215

Table 1

Soil Analytical Results Holly A Federal #006 Incident Number nAPP2116548791 Eddy County, New Mexico WPX Energy Permian, LLC.

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total DRO+GRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	sure Criteria (NMA	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
BH05	06/18/2021	1	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	243
BH05	06/18/2021	4	< 0.00200	< 0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	469
BH05	06/18/2021	6	< 0.00200	< 0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	854
BH06	06/18/2021	1	< 0.00202	< 0.00403	89.8	<50.0	<50.0	89.8	89.8	24.0
BH06	06/18/2021	4	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	96.6
BH06	06/18/2021	6	< 0.00200	< 0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	22.4

Notes

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

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



National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area
Groundwater	~	United States

~ G0

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Groundwater levels for the Nation

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Search Results -- 1 sites found

Agency code = usgs

site_no list = • 320106103555301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320106103555301 26S.29E.26.13143

Eddy County, New Mexico

Latitude 32²⁰00'51.3", 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 (N99990THER) national aquifer. This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data

Tab-separated data

<u>Graph of data</u>

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
983-01-2	6	D	62610		2828.70	NGVD29	1	Z			
983-01-2	6	D	62611		2830.22	NAVD88	1	Z			
983-01-2	6	D	72019	54.30			1	Z			
987-10-1		D	62610		2847.71	NGVD29	1	Z			
.987-10-1		D	62611		2849.23	NAVD88	1	Z			
987-10-1		D	72019	35.29			1	Z			
.992-11-0		D	62610		2838.94	NGVD29	1	S			
992-11-0		D	62611		2840.46	NAVD88	1	S			
.992-11-0		D	72019	44.06			1	S			
.998-01-2		D	62610		2829.99	NGVD29	1	S			
998-01-2		D	62611	52.04	2831.51	NAVD88	1	S			
.998-01-2		D	72019	53.01	2027.07	NOVE20	1	s			_
2003-01-2 2003-01-2		D	62610 62611		2827.07 2828.59	NGVD29 NAVD88	1	S			5
2003-01-2		D	72019	55.93	2020.39	NAV DOO	1	S			5
	9 19:00 UTC		62610	55.55	2825.19	NGVD29	1	S			5
	9 19:00 UTC		62611		2826.71	NAVD88	1	s			5
	9 19:00 UTC		72019	57.81	2020//1		1	s			5
	4 21:10 UTC		62610	57101	2829.54	NGVD29	1	S			5
	4 21:10 UTC		62611		2831.06	NAVD88	1	S			5
2021-02-2	4 21:10 UTC	: m	72019	53.46			1	S	USGS		5

		Explanation
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet

USGS Groundwater for USA: Water Levels -- 1 sites Received by OCD: 9/1/2021 7:57:16 AM

Section	Code	Description
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.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	А	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices <u>U.S. Department of the Interior | U.S. Geological Survey</u> Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

USA.gov

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2021-08-18 10:04:41 EDT 0.34 0.29 nadww01

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	PHOTOGRAPHIC LOG	
WPX Energy Permian,	HOLLY A FEDERAL #006	31403360.000.0348
LLC.	Eddy County, NM	

Photo No.	Date	
1	June 15, 2021	
Southeast view of	the Site during the	
	sment.	

Photo No.	Date
2	June 15, 2021
	he Site during the sment.

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wsp

	PHOTOGRAPHIC LOG	
WPX Energy Permian,	HOLLY A FEDERAL #006	31403360.000.0348
LLC.	Eddy County, NM	

Photo No.	Date
3	June 18, 2021
	ase area following mmissioned tank.

Photo No.	Date
4	June 18, 2021
	ase area following mmissioned tank.

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_		_	_		14/0				BH Name:	Date	9:		
					ws	PUSA			BH01	6/18	/2021		
1				5	08 West S sbad, Ne	Stevens S	Street		Site Name: Holly A Fede	eral #006			
				Carl	sbad, Ne	w Mexico	88220		Incident Number: nAPP2116548791				
									WSP Job Number: 31403306.001.0348				
		LITHO	OLOG	IC / SOIL			G		Logged By: Anna Byers		nod: Hand Auger		
Lat/Lo	ng:	050005			Field Scre				Hole Diameter:		I Depth:		
Comm	105, -103	.952305			Chloride,	PID			2.5 inches	6 fee	et		
Moistu	loisture Content "M" - Moist; Staining "Y" - Yes; Vapor "MAX" - PID reading >15,000 ppm; Chloride values do no include correction factor												
Moisture Content	* *								Litho	ology/Rema	arks		
M 6,896 MAX Y BH01 1 1 SW-SMbrown well-grade									ell-graded sand (f. to	o c.) with gr	avel, odor		
M 376 MAX Y - 2 2 SP-SM brown well-g									rell-graded sand (f. to c.) with gravel, odor				
Μ								red claye	clayey-sand (m.), low plasticity, odor				
M	156	MAX	Ν	BH01	6	6	SC To	red claye	ey-sand (m.), moder	ate plasticit	y, compacted, or	dor	

									BH Name:		Date:			
					WS	P USA			BH02		6/18/2021			
				5	08 Most 9	Stovone 9	Street		Site Name: Holly A Federal #006					
				Car	sbad. Ne	Stevens S w Mexico	88220		Incident Number: nAPP2116548791					
				- Collin					Incident Number: nAPP2116548791 WSP Job Number: 31403306.001.0348					
				IC / SOIL	SAMDI		G							
L ot/I	.ong:	LIIN	OLUG		Field Scre		9		Logged By: Anna E Hole Diameter:	byers	Total Depth:	yei		
	.011g. 14068, -103	.952343			Chloride,				2.5 inches		6 feet			
Com	ments:	+ "NA" NA	aiat: PD					ac Chlorid	e Test Strips; Chlori	da valuaa da n	e include correctio	n faatar		
IVIOIS	luie Conten	1 101 - 1010	JISI, DD	L - Below De				ige Chiona	e rest strips, chion			ITTACION		
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth	(ft bgo)	USCS/Rock Symbol			Lithology/R	emarks			
ĕ ¢	5 5 3	> 5	Sta	Saı	(ft bgs)	(11 093)	USC Sy							
					Ī	0								
					-	-								
	500			B U IOO			00.014							
Μ	588	111	No	BH02	1 _	1	SP-SM	red poor	ly-graded sand	with gravel,	poorly consoli	dated, no odor		
					_									
М	5,464	23.9	No	_	2	2	SP-SM	red poor	ly-graded sand	with gravel.	poorly consoli	dated. no odor		
	-, -					-			, ,	, J		,		
					-	-								
					-	3								
					-									
					-	-								
Μ	BDL	1.4	No	BH02	4 _	4	SP-SM	red poor	ly-graded sand	with gravel,	poorly consoli	dated, no odor		
					-	-								
					-	5								
					-									
					_									
М	BDL	0	No	BH02	6	6	SP-SM	red poor	ly-graded sand	with gravel,	poorly consolie	dated, no odor		
						-	To	tal Depth	1					
	\sim													
				\sim										
					\searrow									
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									\sim					
											$\overline{}$			

								BH Name:		Date:		
				WS	P USA			BH03		6/18/2021		
			E		Stevens	Street		Site Name: Holly A Fede	eral #006			
			Carl	08 West S sbad, Ne	w Mexico	8822	20	Incident Number: nAPP2116548791				
								WSP Job Number: 31403306.001.0348				
	LITH	OLOG	IC / SOIL	SAMPL	ING LO	G		Logged By: Anna Byers				
Lat/Long:				Field Scre		-		Hole Diameter:		Total Depth:		
32.014147, -103	8.952401			Chloride,	PID			2.5 inches		6 feet		
Comments: Moisture Conter	nt "M" - Mo	oist/"D"	- Dry; Stainir	ıg "Y" - Ye	s; Vapor "N			15,000 ppm; Chloride val	ues do no	o include correction factor		
Moisture Content Chloride (ppm)									ology/F	Remarks		
M 3,976	MAX	Y	BH03	1	0				and with	n gravel, poorly consolidated,		
M 5,464	MAX	No	-	2	2	SM dark bro no odor	dark brown poorly-graded sand with gravel, poorly consolidated, no odor					
D 1,988	156.4	No	BH03	4	4	SP-S	SM light bro no odor		and with	n gravel, poorly consolidated,		
D 8,052	112.2	No	BH03	6	6	SP-S	light bro M no odor Total Dept		and with	n gravel, poorly consolidated,		

									BH Name:		Date:		
N					WS	P USA			BH04		6/18/2021		
				-		Stovene	Street			ederal #000	0, 10/2021		
				Carl	08 West S sbad, Ne	w Mexico	88220		Site Name: Holly A Federal #006 Incident Number: nAPP2116548791				
				Cult					Incident Number: nAPP2116548791 WSP Job Number: 31403306.001.0348				
		LITH		IC / SOIL	SAMDI		G				Method: Hand Au	aor	
Lat/Lo	ona:		2200		Field Scre		-		Logged By: Anna By Hole Diameter:	010	Total Depth:	9~1	
32.01	4137, -103	.952285			Chloride,				2.5 inches		6 feet		
Comm Moistu		t "M" - Mo	oist; BD	L - Below De	tection Lin	nit of HACI		nge Chloride	e Test Strips; Chloride	e values do n	o include correctio	n factor	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgo)	USCS/Rock Symbol		L	_ithology/R	emarks		
M	BDL 240	40.9	No	BH04 -	1		SP-SM		ly-graded sand w ly-graded sand w				
Μ	456	3.6	No	BH04	4	- 4 - 4 - 5	SP-SM	red poor	ly-graded sand w	<i>v</i> ith gravel,	poorly consoli	dated, no odor	
M	456	2.8	No	BH04	6	6	SP-SM	red poor	ly-graded sand w	<i>v</i> ith gravel,	poorly consolic	dated, no odor	

									BH Name:		Date:		
					WS	P USA			BH05		6/18/2021		
				5	08 West S	Stevens S	Street		Site Name: Holly A F	ederal #006	I		
				Carl	08 West 8 sbad, Ne	w Mexico	88220		Incident Number: nAPP2116548791				
									WSP Job Number: 31403306.001.0348				
		LITHO	OLOG	IC / SOIL			G		Logged By: Anna Bye	ers	Method: Hand Auger		
Lat/Lor		050064			Field Scre				Hole Diameter:		Total Depth:		
Comm	207, -103. ents:	992201			Chloride, I	PID			2.5 inches		6 feet		
		t "M" - Mc	oist; Mo	isture Conter	nt "D" - Dry	; Chloride		no include	correction factor				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		L	ithology/R	lemarks		
М	272	278.6	No	BH05	1	0	SP-SM		oorly-graded sand onsolidated, odor		silt and gravel,		
Μ	928	175.7	No	-	2 _	2	CCHE	tan, poo	rly cemented calio	che with g	ravel, odor		
D	500	20.8	No	BH05	4 _	4	SM	light bro	wn silty sand (m.)	, well cons	solidated, no odor		
D	928	16.2	No	BH05	6	6	SM To	light bro tal Depth	wn silty sand (m.) I	, well cons	solidated, no odor		

									BH Name:		Date:			
					WS	P USA			BH06		6/18/2021			
				5	08 West S	Stevens S	Street		Site Name: Holly A Federal #006					
				Car	sbad, Ne	w Mexico	88220		Incident Number: nAPP2116548791					
									WSP Job Number: 31403306.001.0348					
		LITH	OLOG	IC / SOIL	SAMPL	ING LO	G		Logged By: Anna Byers	s	Method: Hand Auge	r		
Lat/Lo	ong:				Field Scre		_		Hole Diameter:		Total Depth:			
32.01	4142, -103	.952205			Chloride, I				2.5 inches		6 feet			
	nents: ure Conten	it "M" - Mo	oist/"D"	- Dry; Chlori	de values c	do no inclu	de correct	ion factor; E	BDL - Below Detection L	imit of HA	CH Low Range Chlor	ide Test Strips		
	0			#			USCS/Rock Symbol							
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample	Depth	/Ro		1 :41	halamı/F				
lois	old: dd	Vag (pp	tair	amg	Depth (ft bgs)	(ft bgs)	CS		LIU	hology/F	emarks			
≥ 0	0		S	ő	(it bgs)		SU							
						0								
						Γ								
					_	_								
М	BDL	24.7	No	BH06	1	1		rod poor	ly-graded sand with	h arovol	noorly concolide	tad no adar		
IVI	BDL	24.7	INO	БПОО	' -	- '	35-310	reu poor	iy-graded sand will	n gravei,		alea, no ouor		
					-	Ĺ								
]	Γ								
М	BDL	10.8	No	-	2	2	SP-SM	red poor	ly-graded sand with	h gravel,	poorly consolida	ated, no odor		
					-									
					-	-								
					-	3								
					_									
					_	L								
		7.0		DUOO										
D	BDL	7.8	No	BH06	4	_ 4	5P-5IVI		ly-graded sand with onsolidated, no odd		and capsules of	white caliche,		
					-	-		poony of		51				
					_	Γ								
					_	5								
					-	-								
					-	-		red poor	ly-graded sand with	h aravel	and cansules of	white caliche		
D	BDL	6.2	No	BH06	6	6	SP-SM	poorly co	onsolidated, no odc	or		white earlene,		
\backslash							To	tal Depth						
	$\overline{}$													
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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-844-1

Laboratory Sample Delivery Group: Eddy County Client Project/Site: Holly A Federal #006

For:

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

Attn: Joseph Hernandez

RAMER

Authorized for release by: 6/28/2021 1:39:48 PM

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

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

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

Ask The Expert Visit us at: www.eurofinsus.com/Env

LINKS

Review your project results through

Total Access

Have a Question?

Laboratory Job ID: 890-844-1 SDG: Eddy County

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	Definitions/Glossary		
Client: WSP L	•	Job ID: 890-844-1	
	folly A Federal #006	SDG: Eddy County	
Qualifiers			ī
GC VOA			2
Qualifier	Qualifier Description		
S1-	Surrogate recovery exceeds control limits, low biased.		5
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VO	Α		
Qualifier	Qualifier Description		
*1	LCS/LCSD RPD 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.		2
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)		

DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)

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

LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"

Detection Limit (DoD/DOE)

Dilution Factor

Minimum Detectable Activity (Radiochemistry) MDA

- MDC Minimum Detectable Concentration (Radiochemistry)
- MDL Method Detection Limit ML Minimum Level (Dioxin)

Dil Fac

DL, RA, RE, IN

DL

DLC

- 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 Practical Quantitation Limit PQL
- 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

Job ID: 890-844-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-844-1

Receipt

The samples were received on 6/22/2021 11:41 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: BH01 (890-844-1), BH01 (890-844-2), BH02 (890-844-3), BH02 (890-844-4), BH03 (890-844-5), BH03 (890-844-6), BH04 (890-844-7), BH04 (890-844-8), BH05 (890-844-9), BH05 (890-844-10), BH06 (890-844-11) and BH06 (890-844-12).

GC VOA

Method 8021B: Internal standard responses were outside of acceptance limits for the following samples: BH01 (890-844-2), BH03 (890-844-5), BH03 (890-844-6), BH04 (890-844-7), BH06 (890-844-11) and BH06 (890-844-12). The sample(s) shows evidence of matrix interference.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH01 (890-844-2), BH03 (890-844-5) and BH03 (890-844-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

HPLC/IC

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

RL

0.00199

0.00199

0.00199

0.00398

0.0199

0.0398

0.0398

Limits

70 - 130

70 - 130

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

06/23/21 09:59

06/23/21 09:59

06/23/21 09:59

06/23/21 09:59

06/23/21 09:59

06/23/21 09:59

06/23/21 09:59

Prepared

06/23/21 09:59

06/23/21 09:59

Job ID: 890-844-1 SDG: Eddy County

Client Sample ID: BH01

Project/Site: Holly A Federal #006

Date Collected: 06/18/21 09:15 Date Received: 06/22/21 11:41

Method: 8021B - Volatile Organic Compounds (GC)

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

Sample Depth: -1

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Client: WSP USA Inc.

Lab Sample ID: 890-844-1

Analyzed

06/23/21 16:27

06/23/21 16:27

06/23/21 16:27

06/23/21 16:27

06/25/21 22:18

06/25/21 22:18

06/25/21 22:18

Analyzed

06/23/21 16:27

06/23/21 16:27

Analyzed

06/23/21 23:02

06/23/21 23:02

06/23/21 23:02

06/23/21 23:02

Lab Sample ID: 890-844-2

Matrix: Solid

Matrix: Solid

Dil Fac

1

1

1

1

5

5

5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared
Gasoline Range Organics (GRO)-C6-C10	257	*1	249		mg/Kg		06/23/21 14:00
Diesel Range Organics (Over C10-C28)	1730		249		mg/Kg		06/23/21 14:00
Oll Range Organics (Over C28-C36)	367		249		mg/Kg		06/23/21 14:00
Total TPH	2350		249		mg/Kg		06/23/21 14:00
Surrogate	%Recovery	Qualifier	l imits				Prenared

Result Qualifier

0.0258

0.0580

0.294

0.245

0.825

1.65

1.77

%Recovery Qualifier

181 S1+

95

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130		06/23/21 14:00	06/23/21 23:02	5
o-Terphenyl	100		70 - 130	C	06/23/21 14:00	06/23/21 23:02	5
Method: 300.0 - Anions, Ion Chrom	atography -	Soluble					

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6680	50.5	mg/Kg			06/24/21 17:01	10

Client Sample ID: BH01

Date Collected: 06/18/21 09:25 Date Received: 06/22/21 11:41

Sample Depth: - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/23/21 09:59	06/23/21 16:48	1
Toluene	0.00498		0.00200		mg/Kg		06/23/21 09:59	06/23/21 16:48	1
Ethylbenzene	0.00294		0.00200		mg/Kg		06/23/21 09:59	06/23/21 16:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/23/21 09:59	06/23/21 16:48	1
o-Xylene	0.00514		0.00200		mg/Kg		06/23/21 09:59	06/23/21 16:48	1
Xylenes, Total	0.00514		0.00400		mg/Kg		06/23/21 09:59	06/23/21 16:48	1
Total BTEX	0.0131		0.00400		mg/Kg		06/23/21 09:59	06/23/21 16:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130				06/23/21 09:59	06/23/21 16:48	1
1,4-Difluorobenzene (Surr)	82		70 - 130				06/23/21 09:59	06/23/21 16:48	1

Eurofins Xenco, Carlsbad

Job ID: 890-844-1 SDG: Eddy County

Lab Sample ID: 890-844-3

Matrix: Solid

Client Sample ID: BH01

Project/Site: Holly A Federal #006

Date Collected: 06/18/21 09:25 Date Received: 06/22/21 11:41

Sample Depth: - 4

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7		mg/Kg		06/23/21 14:00	06/23/21 23:23	1
Diesel Range Organics (Over C10-C28)	2380		49.7		mg/Kg		06/23/21 14:00	06/23/21 23:23	1
Oll Range Organics (Over C28-C36)	757		49.7		mg/Kg		06/23/21 14:00	06/23/21 23:23	1
Total TPH	3140		49.7		mg/Kg		06/23/21 14:00	06/23/21 23:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				06/23/21 14:00	06/23/21 23:23	1
o-Terphenyl	140	S1+	70 - 130				06/23/21 14:00	06/23/21 23:23	1
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	158		5.03		mg/Kg			06/24/21 17:07	1

Client Sample ID: BH02

Date Collected: 06/18/21 11:10

Date Received: 06/22/21 11:41

Sample Depth: -1

Method: 8021B - Volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/23/21 09:59	06/23/21 17:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/23/21 09:59	06/23/21 17:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/23/21 09:59	06/23/21 17:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/23/21 09:59	06/23/21 17:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/23/21 09:59	06/23/21 17:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/23/21 09:59	06/23/21 17:08	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		06/23/21 09:59	06/23/21 17:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				06/23/21 09:59	06/23/21 17:08	1
1,4-Difluorobenzene (Surr)	98		70 - 130				06/23/21 09:59	06/23/21 17:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *1 F2	50.0		mg/Kg		06/23/21 14:00	06/23/21 21:38	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		06/23/21 14:00	06/23/21 21:38	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/21 14:00	06/23/21 21:38	1
Total TPH	<50.0	U F2	50.0		mg/Kg		06/23/21 14:00	06/23/21 21:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				06/23/21 14:00	06/23/21 21:38	1
o-Terphenyl	137	S1+	70 - 130				06/23/21 14:00	06/23/21 21:38	1
	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4730		100		mg/Kg			06/24/21 17:12	20

Eurofins Xenco, Carlsbad
RL

0.00198

0.00198

0.00198

0.00397

0.00198

0.00397

0.00397

Limits

70 - 130

70 - 130

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

06/23/21 09:59

06/23/21 09:59

06/23/21 09:59

06/23/21 09:59

06/23/21 09:59

Job ID: 890-844-1 SDG: Eddy County

Client Sample ID: BH02

Project/Site: Holly A Federal #006

Date Collected: 06/18/21 11:30 Date Received: 06/22/21 11:41

Sample Depth: - 4

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Client: WSP USA Inc.

Lab Sample ID: 890-844-4

Matrix: Solid

4	
d	
_	
	5
IC	
1 1	
1	
1	
1	
1	8
1	9
1 1	
1	
1 1	

Dil Fac Analyzed 06/23/21 17:28

06/23/21 17:28 1	06/23/21 17:28	06/23/21 09:59
06/23/21 17:28 1	06/23/21 17:28	06/23/21 09:59
Analyzed Dil Fac	Analyzed	Prepared
- <u>Analyzed</u> <u>Dil Fac</u> 06/23/21 17:28 1		Prepared 06/23/21 09:59
· /	06/23/21 17:28	·

06/23/21 17:28

06/23/21 17:28

06/23/21 17:28

06/23/21 17:28

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

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00198 U

<0.00198 U

<0.00198 U

<0.00397 U

<0.00198 U

<0.00397 U

<0.00397 U

%Recovery Qualifier

117 98

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		06/23/21 14:00	06/23/21 20:56	1	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		06/23/21 14:00	06/23/21 20:56	1	
C10-C28)										
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/23/21 14:00	06/23/21 20:56	1	
Total TPH	<49.8	U	49.8		mg/Kg		06/23/21 14:00	06/23/21 20:56	1	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	06/23/21 14:00	06/23/21 20:56	1
o-Terphenyl	126		70 - 130	06/23/21 14:00	06/23/21 20:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.2	5.00	mg/Kg			06/24/21 17:18	1

Client Sample ID: BH03

Date Collected: 06/18/21 12:10 Date Received: 06/22/21 11:41

Sample Depth: -1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/23/21 09:59	06/23/21 17:49	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/23/21 09:59	06/23/21 17:49	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/23/21 09:59	06/23/21 17:49	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/23/21 09:59	06/23/21 17:49	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/23/21 09:59	06/23/21 17:49	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/23/21 09:59	06/23/21 17:49	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		06/23/21 09:59	06/23/21 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				06/23/21 09:59	06/23/21 17:49	1
1,4-Difluorobenzene (Surr)	99		70 _ 130				06/23/21 09:59	06/23/21 17:49	1

Eurofins Xenco, Carlsbad

Released to Imaging: 1/14/2022 1:37:10 PM

Lab Sample ID: 890-844-5 Matrix: Solid

Lab Sample ID: 890-844-5

Lab Sample ID: 890-844-6

Matrix: Solid

Client Sample ID: BH03

Project/Site: Holly A Federal #006

Date Collected: 06/18/21 12:10 Date Received: 06/22/21 11:41

Sample Depth: - 1

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<249	U *1	249		mg/Kg		06/23/21 14:00	06/23/21 22:41	5
Diesel Range Organics (Over C10-C28)	10400		249		mg/Kg		06/23/21 14:00	06/23/21 22:41	5
Oll Range Organics (Over C28-C36)	2290		249		mg/Kg		06/23/21 14:00	06/23/21 22:41	5
Total TPH	12700		249		mg/Kg		06/23/21 14:00	06/23/21 22:41	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				06/23/21 14:00	06/23/21 22:41	5
o-Terphenyl	140	S1+	70 - 130				06/23/21 14:00	06/23/21 22:41	5
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4350		49.5		mg/Kg			06/24/21 17:29	10

Client Sample ID: BH03

Date Collected: 06/18/21 12:30

Date Received: 06/22/21 11:41

Sample Depth: - 4

Method: 8021B - Volatile Orga	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		06/23/21 09:59	06/23/21 18:09	1	
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/21 09:59	06/23/21 18:09	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/21 09:59	06/23/21 18:09	1	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/23/21 09:59	06/23/21 18:09	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/21 09:59	06/23/21 18:09	1	
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/23/21 09:59	06/23/21 18:09	1	
Total BTEX	<0.00401	U	0.00401		mg/Kg		06/23/21 09:59	06/23/21 18:09	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130				06/23/21 09:59	06/23/21 18:09	1	
1,4-Difluorobenzene (Surr)	88		70 - 130				06/23/21 09:59	06/23/21 18:09	1	

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7		mg/Kg		06/23/21 14:00	06/23/21 21:17	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		06/23/21 14:00	06/23/21 21:17	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/23/21 14:00	06/23/21 21:17	1
Total TPH	<49.7	U	49.7		mg/Kg		06/23/21 14:00	06/23/21 21:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				06/23/21 14:00	06/23/21 21:17	1
o-Terphenyl	127		70 - 130				06/23/21 14:00	06/23/21 21:17	1
– Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	600		4.98		mg/Kg			06/24/21 17:23	1

Eurofins Xenco, Carlsbad

RL

0.00200

0.00200

0.00200

0.00399

0.00200

0.00399

0.00399

Limits

70 - 130

70 - 130

RL

50.0

50.0

MDL

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

MDL Unit

mg/Kg

mg/Kg

D

D

Prepared

06/23/21 09:59

06/23/21 09:59

06/23/21 09:59

06/23/21 09:59

06/23/21 09:59

06/23/21 09:59

06/23/21 09:59

Prepared

06/23/21 09:59

06/23/21 09:59

Prepared

06/23/21 14:00

06/23/21 14:00

Job ID: 890-844-1 SDG: Eddy County

Client Sample ID: BH04

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00399 U

<0.00200 U

<0.00399 U

<0.00399 U

126

97

<50.0 U

<50.0 U

Result Qualifier

%Recovery

Qualifier

Project/Site: Holly A Federal #006

Date Collected: 06/18/21 10:45 Date Received: 06/22/21 11:41

Sample Depth: -1

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

Analyte

(GRO)-C6-C10

C10-C28)

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Diesel Range Organics (Over

Client: WSP USA Inc.

Lab Sample ID: 890-844-7

Analyzed

06/23/21 18:30

06/23/21 18:30

06/23/21 18:30

06/23/21 18:30

06/23/21 18:30

06/23/21 18:30

06/23/21 18:30

Analyzed

06/23/21 18:30

06/23/21 18:30

Analyzed

06/23/21 21:38

06/23/21 21:38

Lab Sample ID: 890-844-8

Matrix: Solid

Matrix: Solid

Dil Fac

1

1

1

1

1

Dil Fac

Dil Fac

5

8	
9	

3

Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 06/23/21 14:00 06/23/21 21:38 1 Total TPH <50.0 U 50.0 mg/Kg 06/23/21 14:00 06/23/21 21:38 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 99 70 - 130 06/23/21 14:00 06/23/21 21:38 o-Terphenyl 121 70 - 130 06/23/21 14:00 06/23/21 21:38 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

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

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	173	25.1	mg/Kg			06/24/21 17:45	5

Client Sample ID: BH04

Date Collected: 06/18/21 11:05 Date Received: 06/22/21 11:41

Sample Depth: - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/23/21 09:59	06/23/21 18:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/23/21 09:59	06/23/21 18:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/23/21 09:59	06/23/21 18:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/23/21 09:59	06/23/21 18:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/23/21 09:59	06/23/21 18:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/23/21 09:59	06/23/21 18:50	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		06/23/21 09:59	06/23/21 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				06/23/21 09:59	06/23/21 18:50	1
1,4-Difluorobenzene (Surr)	100		70 - 130				06/23/21 09:59	06/23/21 18:50	1

Eurofins Xenco, Carlsbad

Matrix: Solid

5

Lab Sample ID: 890-844-8

Lab Sample ID: 890-844-9

Matrix: Solid

Client Sample ID: BH04

Project/Site: Holly A Federal #006

Date Collected: 06/18/21 11:05 Date Received: 06/22/21 11:41

Sample Depth: - 4

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		06/23/21 14:00	06/23/21 21:59	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		06/23/21 14:00	06/23/21 21:59	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/21 14:00	06/23/21 21:59	1
Total TPH	<50.0	U	50.0		mg/Kg		06/23/21 14:00	06/23/21 21:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				06/23/21 14:00	06/23/21 21:59	1
o-Terphenyl	114		70 - 130				06/23/21 14:00	06/23/21 21:59	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	334	5.04	mg/Kg			06/25/21 11:28	1

Client Sample ID: BH05

Date Collected: 06/18/21 12:50 Date Received: 06/22/21 11:41 Sample Depth: - 1

Method: 8021B - Volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/23/21 09:59	06/23/21 20:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/21 09:59	06/23/21 20:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/21 09:59	06/23/21 20:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/23/21 09:59	06/23/21 20:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/21 09:59	06/23/21 20:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/23/21 09:59	06/23/21 20:40	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		06/23/21 09:59	06/23/21 20:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				06/23/21 09:59	06/23/21 20:40	1

1,4-Difluorobenzene (Surr)	98		70 - 130				06/23/21 09:59	06/23/21 20:40	1
– Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/23/21 14:00	06/23/21 22:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/21 14:00	06/23/21 22:20	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/21 14:00	06/23/21 22:20	1
Total TPH	<49.9	U	49.9		mg/Kg		06/23/21 14:00	06/23/21 22:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				06/23/21 14:00	06/23/21 22:20	1
o-Terphenyl	126		70 - 130				06/23/21 14:00	06/23/21 22:20	1
– Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	243		25.2		mg/Kg			06/24/21 18:07	5

Client Sample ID: BH05

Date Collected: 06/18/21 13:25 Date Received: 06/22/21 11:41

Project/Site: Holly A Federal #006

Client: WSP USA Inc.

Lab Sample ID: 890-844-10 Matrix: Solid

5

Analyte	c Compounds (Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		06/23/21 09:59	06/23/21 21:01	
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/21 09:59	06/23/21 21:01	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/21 09:59	06/23/21 21:01	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/23/21 09:59	06/23/21 21:01	
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/21 09:59	06/23/21 21:01	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/23/21 09:59	06/23/21 21:01	
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/23/21 09:59	06/23/21 21:01	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				06/23/21 09:59	06/23/21 21:01	
1,4-Difluorobenzene (Surr)	100		70 - 130				06/23/21 09:59	06/23/21 21:01	
Method: 8015B NM - Diesel Rang Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics			49.9		mg/Kg		06/23/21 14:00	06/23/21 22:41	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/21 14:00	06/23/21 22:41	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/21 14:00	06/23/21 22:41	
	<49.9	U	49.9		mg/Kg		06/23/21 14:00	06/23/21 22:41	
Total TPH									Dil Fa
	%Recovery	Qualifier	Limits				Prepared	Analyzed	
Surrogate	% Recovery 104	Qualifier	Limits 70 - 130				Prepared 06/23/21 14:00	Analyzed 06/23/21 22:41	
Total TPH Surrogate 1-Chlorooctane o-Terphenyl		Qualifier							
Surrogate 1-Chlorooctane	104 128	. <u>.</u>	70 - 130				06/23/21 14:00	06/23/21 22:41	
Surrogate 1-Chlorooctane p-Terphenyl	104 128 omatography -	. <u>.</u>	70 - 130	MDL	Unit	D	06/23/21 14:00	06/23/21 22:41	

Dat Date Received: 06/22/21 11:41

Sample Depth: -1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00202	U	0.00202		mg/Kg		06/23/21 09:59	06/23/21 21:21	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/23/21 09:59	06/23/21 21:21	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/23/21 09:59	06/23/21 21:21	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/23/21 09:59	06/23/21 21:21	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/23/21 09:59	06/23/21 21:21	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/23/21 09:59	06/23/21 21:21	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		06/23/21 09:59	06/23/21 21:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				06/23/21 09:59	06/23/21 21:21	1
1,4-Difluorobenzene (Surr)	96		70 _ 130				06/23/21 09:59	06/23/21 21:21	1

Eurofins Xenco, Carlsbad

Matrix: Solid

5

Lab Sample ID: 890-844-11

Lab Sample ID: 890-844-12

Matrix: Solid

Client Sample ID: BH06

Project/Site: Holly A Federal #006

Date Collected: 06/18/21 13:45 Date Received: 06/22/21 11:41

Sample Depth: -1

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/23/21 14:00	06/23/21 20:35	1
Diesel Range Organics (Over C10-C28)	89.8		50.0		mg/Kg		06/23/21 14:00	06/23/21 20:35	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/21 14:00	06/23/21 20:35	1
Total TPH	89.8		50.0		mg/Kg		06/23/21 14:00	06/23/21 20:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				06/23/21 14:00	06/23/21 20:35	1
o-Terphenyl	136	S1+	70 - 130				06/23/21 14:00	06/23/21 20:35	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

	Analyte	Result	Quaimer	KL	WIDL	Unit		Frepareu	Analyzeu	DIFAC	
l	Chloride	24.0		5.03		mg/Kg	_		06/24/21 18:18	1	

Client Sample ID: BH06

Date Collected: 06/18/21 14:10 Date Received: 06/22/21 11:41 Sample Depth: - 4

Method: 8021B - Volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/23/21 09:59	06/23/21 21:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/23/21 09:59	06/23/21 21:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/23/21 09:59	06/23/21 21:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/23/21 09:59	06/23/21 21:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/23/21 09:59	06/23/21 21:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/23/21 09:59	06/23/21 21:42	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		06/23/21 09:59	06/23/21 21:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				06/23/21 09:59	06/23/21 21:42	1

1,4-Difluorobenzene (Surr)	94		70 - 130				06/23/21 09:59	06/23/21 21:42	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/23/21 14:00	06/23/21 23:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/21 14:00	06/23/21 23:02	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/21 14:00	06/23/21 23:02	1
Total TPH	<50.0	U	50.0		mg/Kg		06/23/21 14:00	06/23/21 23:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				06/23/21 14:00	06/23/21 23:02	1
o-Terphenyl	123		70 _ 130				06/23/21 14:00	06/23/21 23:02	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.6		4.97		mg/Kg			06/25/21 11:33	1

Eurofins Xenco, Carlsbad

Client: WSP USA Inc. Project/Site: Holly A Federal #006

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

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-844-1	BH01	181 S1+	95		
890-844-2	BH01	140 S1+	82		6
890-844-3	BH02	116	98		
890-844-4	BH02	117	98		
890-844-5	BH03	134 S1+	99		
890-844-6	BH03	156 S1+	88		5
890-844-7	BH04	126	97		
890-844-8	BH04	117	100		C
890-844-9	BH05	108	98		~
890-844-10	BH05	115	100		
890-844-11	BH06	106	96		
890-844-12	BH06	127	94		
LCS 880-4500/1-A	Lab Control Sample	109	95		
LCS 880-4592/1-A	Lab Control Sample	93	99		
LCSD 880-4500/2-A	Lab Control Sample Dup	109	91		
LCSD 880-4592/2-A	Lab Control Sample Dup	85	98		
MB 880-4500/5-A	Method Blank	110	94		
MB 880-4592/5-A	Method Blank	60 S1-	80		
Surrogate Legend					

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

-			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-844-1	BH01	95	100
890-844-2	BH01	131 S1+	140 S1+
890-844-3	BH02	127	137 S1+
890-844-3 MS	BH02	98	97
890-844-3 MSD	BH02	118	114
890-844-4	BH02	102	126
890-844-5	BH03	118	140 S1+
890-844-6	BH03	103	127
890-844-7	BH04	99	121
890-844-8	BH04	93	114
890-844-9	BH05	102	126
890-844-10	BH05	104	128
890-844-11	BH06	110	136 S1+
890-844-12	BH06	100	123
LCS 880-4520/2-A	Lab Control Sample	120	121
LCSD 880-4520/3-A	Lab Control Sample Dup	140 S1+	141 S1+
MB 880-4520/1-A	Method Blank	114	124
Surrogate Legend			

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Job ID: 890-844-1 SDG: Eddy County

Prep Type: Total/NA

Prep Type: Total/NA

Eurofins Xenco, Carlsbad

Client: WSP USA Inc. Project/Site: Holly A Federal #006

Lab Sample ID: MB 880-4500/5-A

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid											Prep T		
Analysis Batch: 4515												Batch	
Analysis Daten. 4010	ME	в мв									1 ich	Daten	. 4500
Analyte		t Qualifier	RL		MDL	Unit		D	Pre	pared	Analyze	d	Dil Fa
Benzene	<0.00200		0.00200			mg/Kg				21 09:59	06/23/21 1		
Toluene	<0.00200		0.00200			mg/Kg		06	/23/2	21 09:59	06/23/21 1		
Ethylbenzene	<0.00200		0.00200			mg/Kg				21 09:59	06/23/21 1		
m-Xylene & p-Xylene	<0.00400		0.00400			mg/Kg				21 09:59	06/23/21 1		
o-Xylene	<0.00200		0.00200			mg/Kg				21 09:59	06/23/21 1		
Xylenes, Total	< 0.00400		0.00400			mg/Kg				21 09:59	06/23/21 1		
Total BTEX	<0.00400		0.00400			mg/Kg				21 09:59	06/23/21 1		
	М	3 <i>MB</i>											
Surrogate	%Recover		Limits						Pre	pared	Analyze	ed	Dil Fa
4-Bromofluorobenzene (Surr)	110		70 - 130					06		21 09:59	06/23/21 1		
1,4-Difluorobenzene (Surr)	94	4	70 - 130					06	6/23/	21 09:59			
Lab Sample ID: LCS 880-450	00/1- A							Clier	nt S	ample	ID: Lab Co	ntrol S	amnl
Matrix: Solid											Prep T		
Analysis Batch: 4515												Batch	
			Spike	LCS	LCS						%Rec.	Buton	
Analyte			Added	Result		ifier	Unit	D	, .	%Rec	Limits		
Benzene			0.100	0.1014			mg/Kg			101	70 - 130		
Foluene			0.100	0.1179			mg/Kg			118	70 - 130		
Ethylbenzene			0.100	0.1207			mg/Kg			121	70 - 130		
m-Xylene & p-Xylene			0.200	0.2524			mg/Kg			126	70 - 130		
p-Xylene			0.100	0.1235			mg/Kg			123	70 - 130		
	LCS LC	S											
Surrogate	%Recovery Qu	alifier	Limits										
4-Bromofluorobenzene (Surr)	109		70 - 130										
1,4-Difluorobenzene (Surr)	95		70 - 130										
Lab Sample ID: LCSD 880-4	500/2-A						Cli	ent Sa	mp	le ID: L	ab Control	Samp	e Du
Matrix: Solid											Prep T		
Analysis Batch: 4515												Batch	
-			Spike	LCSD	LCS	C					%Rec.		RP
Analyte			Added	Result	Qual	ifier	Unit	D) (%Rec	Limits	RPD	Limi
Benzene			0.100	0.09466			mg/Kg			95	70 - 130	7	3
Foluene			0.100	0.1147			mg/Kg			115	70 _ 130	3	3
Ethylbenzene			0.100	0.1194			mg/Kg			119	70 - 130	1	3
n-Xylene & p-Xylene			0.200	0.2526			mg/Kg			126	70 _ 130	0	3
p-Xylene			0.100	0.1247			mg/Kg			125	70 - 130	1	3
	LCSD LC	SD											
Surrogate	%Recovery Qu	alifier	Limits										
4-Bromofluorobenzene (Surr)	100		70 - 130										
	109												
1,4-Difluorobenzene (Surr)	109 91		70 - 130										
	91		70 - 130						С	lient Sa	ample ID: N	lethod	Blanl
Lab Sample ID: MB 880-459	91		70 - 130						С	lient Sa	ample ID: M Prep T		
Lab Sample ID: MB 880-459 Matrix: Solid	91		70 - 130						С	lient Sa	Prep T		tal/N/
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-459 Matrix: Solid Analysis Batch: 4608 Analyte	91 2/5-A	3 MB t Qualifier	70 - 130 RL		MDL			D		lient Sa	Prep T	/pe: To Batch	tal/N/

Job ID: 890-844-1 SDG: Eddy County

Client Sample ID: Method Blank

Released to Imaging: 1/14/2022 1:37:10 PM

<0.00200 U

Benzene

0.00200

mg/Kg

06/24/21 13:20

1

06/25/21 12:41

Eurofins Xenco, Carlsbad

Client: WSP USA Inc. Project/Site: Holly A Federal #006

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

Lab Sample ID: MB 880-4592/5-A Matrix: Solid Analysis Batch: 4608							Client Sa	mple ID: Metho Prep Type: 1 Prep Bato	Total/NA
,	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/21 13:20	06/25/21 12:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/21 13:20	06/25/21 12:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/24/21 13:20	06/25/21 12:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/21 13:20	06/25/21 12:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/24/21 13:20	06/25/21 12:41	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/24/21 13:20	06/25/21 12:41	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60	S1-	70 - 130				06/24/21 13:20	06/25/21 12:41	1
1,4-Difluorobenzene (Surr)	80		70 - 130				06/24/21 13:20	06/25/21 12:41	1
Lab Sample ID: LCS 880-4592/1-A Matrix: Solid Analysis Batch: 4608						C	lient Sample I	D: Lab Control Prep Type: 1 Prep Bate	Fotal/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09074		mg/Kg		91	70 - 130	
Toluene	0.100	0.1020		mg/Kg		102	70 - 130	
Ethylbenzene	0.100	0.08452		mg/Kg		85	70 - 130	
m-Xylene & p-Xylene	0.200	0.1776		mg/Kg		89	70 _ 130	
o-Xylene	0.100	0.09260		mg/Kg		93	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-4592/2-A

Matrix: Solid

Analysis Batch: 4608								p Batch	• 1592
Analysis Daten. 4000	Spike	LCSD	LCSD				%Rec.	p Daten	RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08762		mg/Kg		88	70 - 130	3	35
Toluene	0.100	0.08407		mg/Kg		84	70 - 130	19	35
Ethylbenzene	0.100	0.07970		mg/Kg		80	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1673		mg/Kg		84	70 - 130	6	35
o-Xylene	0.100	0.08667		mg/Kg		87	70 - 130	7	35
LC	SD LCSD								

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Eurofins Xenco, Carlsbad

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

t Sample ID: Method Blank

Job ID: 890-844-1

SDG: Eddy County

Client: WSP USA Inc. Project/Site: Holly A Federal #006

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

Lab Sample ID: MB 880-4520/1	- A										Client Sa	mple ID: M	ethod	Blank
Matrix: Solid												Prep Ty		
Analysis Batch: 4496														: 4520
·		мв	МВ											
Analyte	Re	esult	Qualifier	RL		MDL	Unit		D	Pi	repared	Analyzed	1	Dil Fac
Gasoline Range Organics		\$50.0					mg/Kg		—		3/21 14:00	06/23/21 20		1
(GRO)-C6-C10							5 5							
Diesel Range Organics (Over	<	\$50.0	U	50.0			mg/Kg			06/23	3/21 14:00	06/23/21 20	:35	1
C10-C28) Oll Range Organics (Over C28-C36)		\$0.0		50.0			mg/Kg			06/2	3/21 14:00	06/23/21 20	-35	1
Total TPH		\$50.0		50.0							3/21 14:00	06/23/21 20		'
		50.0	0	50.0			mg/Kg			00/2	5/21 14.00	00/23/21 20	.55	'
		MB	МВ											
Surrogate	%Reco	very	Qualifier	Limits						Pi	repared	Analyze	1	Dil Fac
1-Chlorooctane		114		70 - 130						06/2	3/21 14:00	06/23/21 20	:35	1
o-Terphenyl		124		70 - 130						06/2	3/21 14:00	06/23/21 20	:35	1
Lab Sample ID: LCS 880-4520/	2-A								С	lient	Sample	D: Lab Cor		
Matrix: Solid												Prep Ty	-	
Analysis Batch: 4496												Prep	Batch	: 4520
				Spike	LCS	LCS						%Rec.		
Analyte				Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000	850.3			mg/Kg			85	70 - 130		
(GRO)-C6-C10														
Diesel Range Organics (Over				1000	989.8			mg/Kg			99	70 - 130		
C10-C28)														
	LCS	LCS	;											
Surrogate	%Recovery	Qua	lifier	Limits										
1-Chlorooctane	120			70 - 130										
o-Terphenyl	121			70 - 130										
_														
Lab Sample ID: LCSD 880-4520)/3-A							Cli	ent	Sam	ple ID: La	ab Control	Sampl	e Dup
Matrix: Solid												Prep Ty		
Analysis Batch: 4496													-	: 4520
·····,				Spike	LCSD	LCS	D					%Rec.		RPD
Analyte				Added	Result			Unit		D	%Rec	Limits	RPD	Limit
Gasoline Range Organics				1000	1064			mg/Kg		-	106	70 - 130	22	20
(GRO)-C6-C10				1000		•						10 100		20
Diesel Range Organics (Over				1000	1162			mg/Kg			116	70 - 130	16	20
C10-C28)								0 0						
	1000	100												
	LCSD													
Surrogate	%Recovery			Limits										
1-Chlorooctane		S1+		70 - 130										
o-Terphenyl	141	S1+		70 - 130										
Lab Sample ID: 890-844-3 MS												Client Sam		BH02
Matrix: Solid														
												Prep Ty	-	
Analysis Batch: 4496	Comm!-	8	nla	Spile		Me							Datch	: 4520
Analista	Sample		-	Spike		MS	1141 a	Unit		~	0/ D = -	%Rec.		
Analyte	Result			Added	Result	Qua	IITIEr	Unit		D	%Rec	Limits		
Gasoline Range Organics	<50.0	U *1	F2	999	779.7			mg/Kg			78	70 - 130		
(GRO)-C6-C10 Diesel Bange Organics (Over	<50.0	11		999	874.4			ma/Ka			86	70 ₋ 130		
Diesel Range Organics (Over C10-C28)	\30.0	0		333	0/4.4			mg/Kg			00	10 - 130		
010 020/														

Job ID: 890-844-1 SDG: Eddy County

Client: WSP USA Inc. Project/Site: Holly A Federal #006

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

Lab Sample ID: 890-844-3 MS	
Matrix: Solid	
Analysis Batch: 4496	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 _ 130
o-Terphenyl	97		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-844-3 MSD Matrix: Solid

Analysis Batch: 4496									Pre	p Batch	: 4520
	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	<50.0	U *1 F2	997	999.9	F2	mg/Kg		100	70 - 130	25	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1040		mg/Kg		103	70 - 130	17	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	118		70 - 130								
o-Terphenyl	114		70 - 130								

Lab Sample ID: MB 880-4512/1-A												Client S	Sample ID:	Method	Blank
Matrix: Solid													Prep	Type: S	oluble
Analysis Batch: 4595															
		ΜВ	MB												
Analyte	Re	esult	Qualifier		RL		MDL	Unit		D	P	repared	Analyz	zed	Dil Fac
Chloride	<	5.00	U		5.00			mg/Kg					06/24/21	15:56	1
Lab Sample ID: LCS 880-4512/2-A										Cli	ent	Sample	e ID: Lab C	ontrol S	ample
Matrix: Solid													Prep	Type: S	oluble
Analysis Batch: 4595															
				Spike		LCS	LCS						%Rec.		
Analyte				Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
		-									_		00 440		
Chloride				250		249.9			mg/Kg			100	90 _ 110		
Chloride Lab Sample ID: LCSD 880-4512/3-	A			250		249.9				ient S	am		Lab Contro	ol Samp	le Dup
_	A			250		249.9				ient S	Sam		Lab Contro	ol Samp Type: S	
_ Lab Sample ID: LCSD 880-4512/3·	A			250		249.9				ient S	Sam		Lab Contro		
_ Lab Sample ID: LCSD 880-4512/3- Matrix: Solid	A			250 Spike		249.9 LCSD	LCSI	D		ient S	Sam		Lab Contro		
_ Lab Sample ID: LCSD 880-4512/3- Matrix: Solid	A									ient S	Sam D		Lab Contro Prep		oluble
Lab Sample ID: LCSD 880-4512/3 Matrix: Solid Analysis Batch: 4595	A			Spike		LCSD			Cli	ient S		ple ID:	Lab Contro Prep %Rec.	Type: S	oluble RPD
Lab Sample ID: LCSD 880-4512/3 Matrix: Solid Analysis Batch: 4595 Analyte	A			Spike Added		LCSD Result			Cli	ient S		ple ID: %Rec	Lab Contro Prep %Rec. Limits 90 - 110	Type: S RPD	RPD Limit
Lab Sample ID: LCSD 880-4512/3 Matrix: Solid Analysis Batch: 4595 Analyte Chloride	A			Spike Added		LCSD Result			Cli	ient S		ple ID: %Rec	Lab Contro Prep %Rec. Limits 90 - 110 Client Sar	Type: S RPD	RPD Limit 20
Lab Sample ID: LCSD 880-4512/3 Matrix: Solid Analysis Batch: 4595 Analyte Chloride Lab Sample ID: 890-844-5 MS	A			Spike Added		LCSD Result			Cli	ient S		ple ID: %Rec	Lab Contro Prep %Rec. Limits 90 - 110 Client Sar	Type: S	RPD Limit 20
Lab Sample ID: LCSD 880-4512/3- Matrix: Solid Analysis Batch: 4595 Analyte Chloride Lab Sample ID: 890-844-5 MS Matrix: Solid	A	Samı		Spike Added		LCSD Result			Cli	ient S		ple ID: %Rec	Lab Contro Prep %Rec. Limits 90 - 110 Client Sar	Type: S	RPD Limit 20
Lab Sample ID: LCSD 880-4512/3- Matrix: Solid Analysis Batch: 4595 Analyte Chloride Lab Sample ID: 890-844-5 MS Matrix: Solid				Spike Added 250		LCSD Result 249.9	Qual	ifier	Cli	ient S		ple ID: %Rec	Lab Contro Prep %Rec. Limits 90 - 110 Client Sar Prep	Type: S	RPD Limit 20

Client Sample ID: BH02 Prep Type: Total/NA Prep Batch: 4520

Client Sample ID: BH02

Prep Type: Total/NA

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Eurofins Xenco, Carlsbad

Client: WSP USA Inc. Project/Site: Holly A Federal #006

Job ID: 890-844-1 SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

ab Sample ID: 890-844-5 MSD latrix: Solid nalysis Batch: 4595	l.								Client San Prep	nple ID: Type: Sc		
halysis batch. 4000	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
nalyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
nloride	4350		2480	6925		mg/Kg		104	90 - 110	0	20	

Eurofins Xenco, Carlsbad

Client: WSP USA Inc. Project/Site: Holly A Federal #006

5 6 7

Job ID: 890-844-1 SDG: Eddy County

GC VOA

Prep Batch: 4500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-844-1	BH01	Total/NA	Solid	5035	
890-844-2	BH01	Total/NA	Solid	5035	
890-844-3	BH02	Total/NA	Solid	5035	
890-844-4	BH02	Total/NA	Solid	5035	
890-844-5	BH03	Total/NA	Solid	5035	
890-844-6	BH03	Total/NA	Solid	5035	
890-844-7	BH04	Total/NA	Solid	5035	
890-844-8	BH04	Total/NA	Solid	5035	
890-844-9	BH05	Total/NA	Solid	5035	
890-844-10	BH05	Total/NA	Solid	5035	
890-844-11	BH06	Total/NA	Solid	5035	
890-844-12	BH06	Total/NA	Solid	5035	
MB 880-4500/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4500/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4500/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 4515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-844-1	BH01	Total/NA	Solid	8021B	4500
890-844-2	BH01	Total/NA	Solid	8021B	4500
890-844-3	BH02	Total/NA	Solid	8021B	4500
890-844-4	BH02	Total/NA	Solid	8021B	4500
890-844-5	BH03	Total/NA	Solid	8021B	4500
890-844-6	BH03	Total/NA	Solid	8021B	4500
890-844-7	BH04	Total/NA	Solid	8021B	4500
890-844-8	BH04	Total/NA	Solid	8021B	4500
890-844-9	BH05	Total/NA	Solid	8021B	4500
890-844-10	BH05	Total/NA	Solid	8021B	4500
890-844-11	BH06	Total/NA	Solid	8021B	4500
890-844-12	BH06	Total/NA	Solid	8021B	4500
MB 880-4500/5-A	Method Blank	Total/NA	Solid	8021B	4500
LCS 880-4500/1-A	Lab Control Sample	Total/NA	Solid	8021B	4500
LCSD 880-4500/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4500

Prep Batch: 4592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-4592/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4592/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4592/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 4608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-844-1	BH01	Total/NA	Solid	8021B	4500
MB 880-4592/5-A	Method Blank	Total/NA	Solid	8021B	4592
LCS 880-4592/1-A	Lab Control Sample	Total/NA	Solid	8021B	4592
LCSD 880-4592/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4592

Client: WSP USA Inc. Project/Site: Holly A Federal #006

Job ID: 890-844-1 SDG: Eddy County

GC Semi VOA

Analysis Batch: 4494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-844-4	BH02	Total/NA	Solid	8015B NM	4520
890-844-6	BH03	Total/NA	Solid	8015B NM	4520
890-844-7	BH04	Total/NA	Solid	8015B NM	4520
890-844-8	BH04	Total/NA	Solid	8015B NM	4520
890-844-9	BH05	Total/NA	Solid	8015B NM	4520
890-844-10	BH05	Total/NA	Solid	8015B NM	4520
890-844-11	BH06	Total/NA	Solid	8015B NM	4520
890-844-12	BH06	Total/NA	Solid	8015B NM	4520

Analysis Batch: 4496

nalysis Batch: 4494					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-844-4	BH02	Total/NA	Solid	8015B NM	4520
890-844-6	BH03	Total/NA	Solid	8015B NM	4520
890-844-7	BH04	Total/NA	Solid	8015B NM	4520
890-844-8	BH04	Total/NA	Solid	8015B NM	4520
890-844-9	BH05	Total/NA	Solid	8015B NM	4520
890-844-10	BH05	Total/NA	Solid	8015B NM	4520
890-844-11	BH06	Total/NA	Solid	8015B NM	4520
890-844-12 nalysis Batch: 4496	BH06	Total/NA	Solid	8015B NM	4520
nalysis Batch: 4496					
nalysis Batch: 4496 Lab Sample ID		Ргер Туре	Matrix	Method	Prep Batch
	Client Sample ID			Method 8015B NM	_ Prep Batch 4520
nalysis Batch: 4496 Lab Sample ID 890-844-1	Client Sample ID BH01	Prep Type Total/NA	Matrix Solid	Method	Prep Batch
nalysis Batch: 4496 Lab Sample ID 890-844-1 890-844-2	Client Sample ID BH01 BH01	Prep Type Total/NA Total/NA	Matrix Solid Solid	Method 8015B NM 8015B NM	Prep Batch 4520 4520
nalysis Batch: 4496 Lab Sample ID 890-844-1 890-844-2 890-844-3	Client Sample ID BH01 BH01 BH02	Prep Type Total/NA Total/NA Total/NA	Matrix Solid Solid Solid	Method 8015B NM 8015B NM 8015B NM	<u>Prep Batch</u> 4520 4520 4520
nalysis Batch: 4496 Lab Sample ID 890-844-1 890-844-2 890-844-3 890-844-5	Client Sample ID BH01 BH01 BH02 BH03	Prep Type Total/NA Total/NA Total/NA Total/NA	Matrix Solid Solid Solid Solid Solid	Method 8015B NM 8015B NM 8015B NM 8015B NM	Prep Batch 4520 4520 4520 4520
nalysis Batch: 4496 Lab Sample ID 890-844-1 890-844-2 890-844-3 890-844-5 MB 880-4520/1-A	Client Sample ID BH01 BH01 BH02 BH03 Method Blank	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Solid Solid Solid Solid Solid Solid	Method 8015B NM 8015B NM 8015B NM 8015B NM 8015B NM	Prep Batch 4520 4520 4520 4520 4520 4520
Lab Sample ID 890-844-1 890-844-2 890-844-3 890-844-5 MB 880-4520/1-A LCS 880-4520/2-A	Client Sample ID BH01 BH01 BH02 BH03 Method Blank Lab Control Sample	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Solid Solid Solid Solid Solid Solid Solid	Method 8015B NM 8015B NM 8015B NM 8015B NM 8015B NM 8015B NM	Prep Batch 4520 4520 4520 4520 4520 4520 4520

Prep Batch: 4520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-844-1	BH01	Total/NA	Solid	8015NM Prep	
890-844-2	BH01	Total/NA	Solid	8015NM Prep	
890-844-3	BH02	Total/NA	Solid	8015NM Prep	
890-844-4	BH02	Total/NA	Solid	8015NM Prep	
890-844-5	BH03	Total/NA	Solid	8015NM Prep	
890-844-6	BH03	Total/NA	Solid	8015NM Prep	
890-844-7	BH04	Total/NA	Solid	8015NM Prep	
890-844-8	BH04	Total/NA	Solid	8015NM Prep	
890-844-9	BH05	Total/NA	Solid	8015NM Prep	
890-844-10	BH05	Total/NA	Solid	8015NM Prep	
890-844-11	BH06	Total/NA	Solid	8015NM Prep	
890-844-12	BH06	Total/NA	Solid	8015NM Prep	
MB 880-4520/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4520/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4520/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-844-3 MS	BH02	Total/NA	Solid	8015NM Prep	
890-844-3 MSD	BH02	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 4512

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-844-1	BH01	Soluble	Solid	DI Leach	
890-844-2	BH01	Soluble	Solid	DI Leach	
890-844-3	BH02	Soluble	Solid	DI Leach	
890-844-4	BH02	Soluble	Solid	DI Leach	
890-844-5	BH03	Soluble	Solid	DI Leach	
890-844-6	BH03	Soluble	Solid	DI Leach	

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Client: WSP USA Inc. Project/Site: Holly A Federal #006

HPLC/IC (Continued)

Leach Batch: 4512 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-844-7	BH04	Soluble	Solid	DI Leach	
890-844-8	BH04	Soluble	Solid	DI Leach	
890-844-9	BH05	Soluble	Solid	DI Leach	
890-844-10	BH05	Soluble	Solid	DI Leach	
890-844-11	BH06	Soluble	Solid	DI Leach	
890-844-12	BH06	Soluble	Solid	DI Leach	
MB 880-4512/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4512/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4512/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-844-5 MS	BH03	Soluble	Solid	DI Leach	
890-844-5 MSD	BH03	Soluble	Solid	DI Leach	

Analysis Batch: 4595

MB 880-4512/1-A	Method Blank	Soluble	Solid	DI Leach		
LCS 880-4512/2-A	Lab Control Sample	Soluble	Solid	DI Leach		8
LCSD 880-4512/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach		
890-844-5 MS	BH03	Soluble	Solid	DI Leach		9
890-844-5 MSD	BH03	Soluble	Solid	DI Leach		
Analysis Batch: 4595						
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-844-1	BH01	Soluble	Solid	300.0	4512	
890-844-2	BH01	Soluble	Solid	300.0	4512	
890-844-3	BH02	Soluble	Solid	300.0	4512	
890-844-4	BH02	Soluble	Solid	300.0	4512	4.5
890-844-5	BH03	Soluble	Solid	300.0	4512	
890-844-6	BH03	Soluble	Solid	300.0	4512	
890-844-7	BH04	Soluble	Solid	300.0	4512	
890-844-8	BH04	Soluble	Solid	300.0	4512	
890-844-9	BH05	Soluble	Solid	300.0	4512	
890-844-10	BH05	Soluble	Solid	300.0	4512	
890-844-11	BH06	Soluble	Solid	300.0	4512	
890-844-12	BH06	Soluble	Solid	300.0	4512	
MB 880-4512/1-A	Method Blank	Soluble	Solid	300.0	4512	
LCS 880-4512/2-A	Lab Control Sample	Soluble	Solid	300.0	4512	
LCSD 880-4512/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4512	
890-844-5 MS	BH03	Soluble	Solid	300.0	4512	
890-844-5 MSD	BH03	Soluble	Solid	300.0	4512	

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Job ID: 890-844-1 SDG: Eddy County

Lab Sample ID: 890-844-1 Matrix: Solid

Lab Sample ID: 890-844-2

Lab Sample ID: 890-844-3

Lab Sample ID: 890-844-4

Matrix: Solid

Matrix: Solid

Matrix: Solid

Date Collected: 06/18/21 09:15 Date Received: 06/22/21 11:41

Client Sample ID: BH01

Project/Site: Holly A Federal #006

Client: WSP USA Inc.

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	4500	06/23/21 09:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4515	06/23/21 16:27	MR	XEN MID
Total/NA	Prep	5035			5.02 g	5 mL	4500	06/23/21 09:59	MR	XEN MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	4608	06/25/21 22:18	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	4520	06/23/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		5			4496	06/23/21 23:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	4512	06/23/21 12:35	СН	XEN MID
Soluble	Analysis	300.0		10			4595	06/24/21 17:01	СН	XEN MID

Client Sample ID: BH01

Date Collected: 06/18/21 09:25 Date Received: 06/22/21 11:41

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	4500	06/23/21 09:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4515	06/23/21 16:48	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	4520	06/23/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4496	06/23/21 23:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	4512	06/23/21 12:35	СН	XEN MID
Soluble	Analysis	300.0		1			4595	06/24/21 17:07	СН	XEN MID

Client Sample ID: BH02 Date Collected: 06/18/21 11:10

Date Received: 06/22/21 11:41

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	4500	06/23/21 09:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4515	06/23/21 17:08	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	4520	06/23/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4496	06/23/21 21:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	4512	06/23/21 12:35	СН	XEN MID
Soluble	Analysis	300.0		20			4595	06/24/21 17:12	СН	XEN MID

Client Sample ID: BH02

Date Collected: 06/18/21 11:30 Date Received: 06/22/21 11:41

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	4500	06/23/21 09:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4515	06/23/21 17:28	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	4520	06/23/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4494	06/23/21 20:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	4512	06/23/21 12:35	СН	XEN MID
Soluble	Analysis	300.0		1			4595	06/24/21 17:18	СН	XEN MID

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Project/Site: Holly A Federal #006

Job ID: 890-844-1

Lab Sample ID: 890-844-5 Matrix: Solid

Lab Sample ID: 890-844-6

Matrix: Solid

Date Collected: 06/18/21 12:10 Date Received: 06/22/21 11:41

Client Sample ID: BH03

Client: WSP USA Inc.

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	4500	06/23/21 09:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4515	06/23/21 17:49	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	4520	06/23/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		5			4496	06/23/21 22:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	4512	06/23/21 12:35	СН	XEN MID
Soluble	Analysis	300.0		10			4595	06/24/21 17:29	СН	XEN MID

Client Sample ID: BH03 Date Collected: 06/18/21 12:30

Date Received: 06/22/21 11:41

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	4500	06/23/21 09:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4515	06/23/21 18:09	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	4520	06/23/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4494	06/23/21 21:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	4512	06/23/21 12:35	СН	XEN MID
Soluble	Analysis	300.0		1			4595	06/24/21 17:23	СН	XEN MID

Client Sample ID: BH04

Date Collected: 06/18/21 10:45 Date Received: 06/22/21 11:41

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	4500	06/23/21 09:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4515	06/23/21 18:30	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4520	06/23/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4494	06/23/21 21:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	4512	06/23/21 12:35	СН	XEN MID
Soluble	Analysis	300.0		5			4595	06/24/21 17:45	СН	XEN MID

Client Sample ID: BH04 Date Collected: 06/18/21 11:05 Date Received: 06/22/21 11:41

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	4500	06/23/21 09:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4515	06/23/21 18:50	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4520	06/23/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4494	06/23/21 21:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	4512	06/23/21 12:35	СН	XEN MID
Soluble	Analysis	300.0		1			4595	06/25/21 11:28	СН	XEN MID

Eurofins Xenco, Carlsbad

SDG: Eddy County

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Lab Sample ID: 890-844-7 Matrix: Solid

Lab Sample ID: 890-844-8

Matrix: Solid

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Job ID: 890-844-1 SDG: Eddy County

Lab Sample ID: 890-844-9 Matrix: Solid

Date Collected: 06/18/21 12:50 Date Received: 06/22/21 11:41

Client Sample ID: BH05

Project/Site: Holly A Federal #006

Client: WSP USA Inc.

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	4500	06/23/21 09:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4515	06/23/21 20:40	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	4520	06/23/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4494	06/23/21 22:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	4512	06/23/21 12:35	СН	XEN MID
Soluble	Analysis	300.0		5			4595	06/24/21 18:07	СН	XEN MID

Client Sample ID: BH05

Date Collected: 06/18/21 13:25 Date Received: 06/22/21 11:41

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	4500	06/23/21 09:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4515	06/23/21 21:01	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	4520	06/23/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4494	06/23/21 22:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	4512	06/23/21 12:35	СН	XEN MID
Soluble	Analysis	300.0		1			4595	06/24/21 18:13	СН	XEN MID

Client Sample ID: BH06

Date Collected: 06/18/21 13:45 Date Received: 06/22/21 11:41

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 4500 Prep 4.96 g 5 mL 06/23/21 09:59 MR XEN MID Total/NA MR Analysis 8021B 5 mL 4515 06/23/21 21:21 XEN MID 1 5 mL Total/NA 8015NM Prep 10.01 g 06/23/21 14:00 XEN MID Prep 10 mL 4520 DM Total/NA 8015B NM 06/23/21 20:35 Analysis 1 4494 AJ XEN MID 50 mL 06/23/21 12:35 XEN MID Soluble Leach DI Leach 4.97 g 4512 CH XEN MID Soluble Analysis 300.0 4595 06/24/21 18:18 CH 1

Client Sample ID: BH06 Date Collected: 06/18/21 14:10 Date Received: 06/22/21 11:41

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	4500	06/23/21 09:59	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4515	06/23/21 21:42	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4520	06/23/21 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4494	06/23/21 23:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	4512	06/23/21 12:35	СН	XEN MID
Soluble	Analysis	300.0		1			4595	06/25/21 11:33	СН	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

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Lab Sample ID: 890-844-11 Matrix: Solid

Lab Sample ID: 890-844-12

Matrix: Solid

Lab Sample ID: 890-844-10

Matrix: Solid

<i>‡</i> 006				Job ID: 890-844-
1000				SDG: Eddy Coun
enco, Midland				
for this laboratory we	re covered under each accr	reditation/certification below.		
Pro	ogram	Identification Number	Expiration Date	
NE	LAP	T104704400-20-21	06-30-21	_
ication. Prep Method	Matrix	Analyte		
3015NM Prep	Solid	Total TPH		
5035	Solid	Total BTEX		
	for this laboratory were for this laboratory were for this laboratory were for the second sec	Program NELAP Ided in this report, but the laboratory is not certification. Prep Method Matrix 8015NM Prep Solid	Identification below. Identification Number Program Identification Number NELAP T104704400-20-21 Identification. Identification Number Propresentation. Matrix Analyte Solid Total TPH	Identification below. Expiration Date Program Identification Number Expiration Date NELAP T104704400-20-21 06-30-21 Ided in this report, but the laboratory is not certified by the governing authority. This list may include analytes for witcation. Matrix Analyte Prep Method Matrix Analyte Solid Total TPH

Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc. Project/Site: Holly A Federal #006

SDG: Eddy County

Nethod	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
3015NM Prep	Microextraction	SW846	XEN MID
OI 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

Job ID: 890-844-1

Sample Summary

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Page 57 of 166

Job ID: 890-844-1 SDG: Eddy County

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
90-844-1	BH01	Solid	06/18/21 09:15	06/22/21 11:41	- 1	
90-844-2	BH01	Solid	06/18/21 09:25	06/22/21 11:41	- 4	
90-844-3	BH02	Solid	06/18/21 11:10	06/22/21 11:41	- 1	
90-844-4	BH02	Solid	06/18/21 11:30	06/22/21 11:41	- 4	
90-844-5	BH03	Solid	06/18/21 12:10	06/22/21 11:41	- 1	
90-844-6	BH03	Solid	06/18/21 12:30	06/22/21 11:41	- 4	
90-844-7	BH04	Solid	06/18/21 10:45	06/22/21 11:41	- 1	
90-844-8	BH04	Solid	06/18/21 11:05	06/22/21 11:41	- 4	
90-844-9	BH05	Solid	06/18/21 12:50	06/22/21 11:41	- 1	
90-844-10	BH05	Solid	06/18/21 13:25	06/22/21 11:41	- 4	
90-844-11	BH06	Solid	06/18/21 13:45	06/22/21 11:41	- 1	
90-844-12	BH06	Solid	06/18/21 14:10	06/22/21 11:41	- 4	
						1
						1

Eurofins Xenco, Carlsbad

5
8
9

13

eurofins

Xenco **Environment Testing**

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midiand, 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:

5
8
9
13
14

Received by OCD: 9/1/2021 7:57:16	AM
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Aurofine	f : 5			Chain of Custody	ıstody		
		Environment Testing	Midland, [*]	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	as, 1A (214) 902-0300 tonio, TX (210) 509-3334	Work Order No:	No:
	Xenco		EL Pasc	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	ock, TX (806) 794-1296		
			Hobbs,	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	ad, NM (575) 988-3199	www.xenco.com	om Page 2 of 2
Project Manager:	TOSEPH HERWANDER	ANDEZ	Bill to: (if different)	Jim PA	PALEY	Work Orde	ğ
	WSP USA		Company Name:	WAX ENE	ENERGY	Program: UST/PST PRP Brownfields RRC Superfund	ownfields 🗌 RRC 🗌 Superfund 🗌
	A	SREET	Address:	5315 BU	BUENA VISTADR.	State of Project:	
e ZIP:	NO.	SALDE	City, State ZIP:	CARLSBAD, NM	NM 88220	Reporting: Level II 🗌 Level III 🗍 PST/UST 🗍 TRRP 🗌	
Phone: ((281) 702-2329		Email: anna, bu	byers @ wsp. com		Deliverables: EDD AD	ADaPT Other:
Name:	HOLLY A FEDERAL	7006		_	ANALYSIS REQUEST	QUEST	Preservative Codes
er:	3403360,001.	\$348 Routine	Andush	Pres. Code			None: NO DI Water: H ₂ O
		Due Date:	3DAUTAT	(bd)			Cool: Cool MeOH: Me
ler's Name:	ANNA BYERS		TAT starts the day received by the lab if received by				HCL: HC HNO3: HN
	Tom Black Vo	2		515 92			H ₁ PO ₄ : HP
Samples Received Intact:		ler D	1	8			NaHSO4: NABIS
Cooler Custody Seals:	Yes No N/A	Ľ.,	4	PA			Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	S: Yes No N/A	Temperature Reading:	jĝ:	(€			
Total Containers:		Corrected Temperature:	ure:	¥			
Sample Identification	ification Matrix	Date Time Sampled Sampled	Depth Comp	Cont TP BTE Chi			Sample Comments
Bittalo	5	6/18/21 1345	1.	·X××			n APP2116548791
BITTELE	cs.	Q118/21 14110	6 4' Grain	- X X X			
/.							
			(ζ			
			_			/	
							/
Total 200.7 / 6010	10 200.8 / 6020:	8RCRA	13PPM Texas 11	Al Sb As Ba Be B	Texas 11 AISb As Ba Be B Cd Ca Cr Co Cu Fe Pb	Mg Mn Mo Ni K Se	Na Sr TI Sn
Circle Method(s) an	Circle Method(e) and Metal(s) to be analyzed		1 SPLP 6010: BRC	RA Sb As Ba Be C	TCLP/SPLP 6010: BRCRA 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 do of service. Eurofins Xenco of Eurofins Xenco. A minir	ocument and relinquishment o will be liable only for the cos num charge of \$85.00 will be :	of samples constitutes a v it of samples and shall no applied to each project ar	ralid purchase order from c t assume any responsibility nd a charge of \$5 for each s	lient company to Eurofins Xeu r for any losses or expenses li ample submitted to Eurofins	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors 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 a 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 term	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.	s ol lated.
Relinquished by: (Signature)	(Signature)	Received by: (Signature)	ignature)	Date/Time	Relinquished by: (Signature)	iture) Received by: (Signature)	ature) Date/Time
1 Urma	Byen Ui	live Curton		le-22.21 1136	4 2		
5		-			σ		
							Revised Date: 08/25/2020 Rev 2020

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14

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 844 List Number: 1

<6mm (1/4").

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

Job Number: 890-844-1

SDG Number: Eddy County

List Source: Eurofins Xenco, Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 844 List Number: 2 Creator: Copeland, Tatiana

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-844-1 SDG Number: Eddy County

List Source: Eurofins Xenco, Midland

List Creation: 06/23/21 11:31 AM

Received by OCD: 9/1/2021 7:57:16 AM

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-845-1

Laboratory Sample Delivery Group: Eddy County Client Project/Site: Holly A Federal #006

For:

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

Attn: Joseph Hernandez

RAMER

Authorized for release by: 7/2/2021 9:28:28 AM

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

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

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

Visit us at: www.eurofinsus.com/Env

LINKS

Review your project results through

Total Access

Have a Question?

Ask-

The

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	Definitions/Glossary	1
Client: WSP US Project/Site: Hc	SA Inc. Job ID: 890-845-1 SDG: Eddy County SDG: Eddy County	
Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi VOA Qualifier	Qualifier Description	6
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.	8
Glossary		9
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	10
%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	1:
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	

7/2/2021

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

ND NEG

POS

PQL PRES

QC

RER

RPD TEF

TEQ

TNTC

RL

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

Job ID: 890-845-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-845-1

Receipt

The sample was received on 6/22/2021 11:44 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: BH01 (890-845-1)

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

4

5

RL

0.00202

0.00202

0.00202

0.00403

0.00202

0.00403

0.00403

Limits

70 - 130

70 - 130

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

06/29/21 14:37

06/29/21 14:37

06/29/21 14:37

06/29/21 14:37

06/29/21 14:37

06/29/21 14:37

06/29/21 14:37

Prepared

06/29/21 14:37

06/29/21 14:37

Job ID: 890-845-1 SDG: Eddy County

Client Sample ID: BH01

Project/Site: Holly A Federal #006

Date Collected: 06/18/21 10:00 Date Received: 06/22/21 11:44

Sample Depth: - 6

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Client: WSP USA Inc.

Lab Sample ID: 890-845-1

Analyzed

06/29/21 17:48

06/29/21 17:48

06/29/21 17:48

06/29/21 17:48

06/29/21 17:48

06/29/21 17:48

06/29/21 17:48

Analyzed

06/29/21 17:48

06/29/21 17:48

Matrix: Solid

Dil Fac

1

1

1

1

1

1

1

Method: 8015B NM - Diesel Range O	Organics (DRO) (GC)
Amaluta	Desult Ovalifier

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00202 U

<0.00202 U

<0.00202 U

<0.00403 U

<0.00202 U

<0.00403 U

<0.00403 U

%Recovery Qualifier

103

99

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<49.7	U	49.7		mg/Kg		06/29/21 09:38	06/29/21 13:19	1	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		06/29/21 09:38	06/29/21 13:19	1	
C10-C28)										
Oll Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/29/21 09:38	06/29/21 13:19	1	
Total TPH	<49.7	U	49.7		mg/Kg		06/29/21 09:38	06/29/21 13:19	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	90		70 - 130				06/29/21 09:38	06/29/21 13:19	1	
o-Terphenyl	98		70 - 130				06/29/21 09:38	06/29/21 13:19	1	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	153		25.2		mg/Kg			07/01/21 19:53	5	

Project/Site: Holly A Federal #006

Job ID: 890-845-1 SDG: Eddy County

Prep Type: Total/NA

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix:	Solid
matrix.	oona

Client: WSP USA Inc.

				Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)	
890-845-1	BH01	103	99	
LCS 880-4724/1-A	Lab Control Sample	87	97	
LCSD 880-4724/2-A	Lab Control Sample Dup	94	102	
MB 880-4724/5-A	Method Blank	60 S1-	82	
Surrogate Legend				
BFB = 4-Bromofluorobe	enzene (Surr)			

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

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-845-1	BH01	90	98	
90-845-1 MS	BH01	90	89	
390-845-1 MSD	BH01	104	102	
CS 880-4722/2-A	Lab Control Sample	97	98	
CSD 880-4722/3-A	Lab Control Sample Dup	112	107	
/IB 880-4722/1-A	Method Blank	90	101	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample	ID: MB	880-4724/5-A

Matrix: Solid Analysis Batch: 4740

Analysis Batch: 4740								Prep Bate	:h: 4724
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60	S1-	70 - 130				06/29/21 10:28	06/29/21 16:33	1
1,4-Difluorobenzene (Surr)	82		70 - 130				06/29/21 10:28	06/29/21 16:33	1

Lab Sample ID: LCS 880-4724/1-A Matrix: Solid Analysis Batch: 4740

Spike	LCS	LCS				%Rec.	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.08480		mg/Kg		85	70 - 130	
0.100	0.08425		mg/Kg		84	70 _ 130	
0.100	0.08202		mg/Kg		82	70 - 130	
0.200	0.1733		mg/Kg		87	70 _ 130	
0.100	0.08872		mg/Kg		89	70 _ 130	
	Added 0.100 0.100 0.100 0.100 0.200	Added Result 0.100 0.08480 0.100 0.08425 0.100 0.08202 0.200 0.1733	Added Result Qualifier 0.100 0.08480	Added Result Qualifier Unit 0.100 0.08480 mg/Kg 0.100 0.08425 mg/Kg 0.100 0.08202 mg/Kg 0.200 0.1733 mg/Kg	Added Result Qualifier Unit D 0.100 0.08480 mg/Kg 0.100 0.08425 mg/Kg 0.100 0.08202 mg/Kg 0.200 0.1733 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.08480 mg/Kg 85 0.100 0.08425 mg/Kg 84 0.100 0.08202 mg/Kg 82 0.200 0.1733 mg/Kg 87	Added Result Qualifier Unit D %Rec Limits 0.100 0.08480 mg/Kg 85 70 - 130 0.100 0.08425 mg/Kg 84 70 - 130 0.100 0.08202 mg/Kg 82 70 - 130 0.200 0.1733 mg/Kg 87 70 - 130

	LCS LCS	
Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	87	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: LCSD 880-4724/2-A Matrix: Solid

Analysis Batch: 4740									Pre	p Batch	: 4724
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.09235		mg/Kg		92	70 - 130	9	35
Toluene			0.100	0.1077		mg/Kg		108	70 - 130	24	35
Ethylbenzene			0.100	0.09178		mg/Kg		92	70 - 130	11	35
m-Xylene & p-Xylene			0.200	0.1939		mg/Kg		97	70 - 130	11	35
o-Xylene			0.100	0.09922		mg/Kg		99	70 - 130	11	35
	LCSD	LCSD									
Surrogate	%Recoverv	Qualifier	Limits								

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA	
Prep Batch: 4724	Ì

Prep Type: Total/NA

Job ID: 890-845-1

SDG: Eddy County

Prep Type: Total/NA

Client Sample ID: Method Blank

Client: WSP USA Inc. Project/Site: Holly A Federal #006

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

Lab Sample ID: MB 880-4722/1	-A										Client Sa	mple ID:	Method	Blank
Matrix: Solid													Type: To	
Analysis Batch: 4728													p Batcl	
		мв	MB										p Date.	
Analyte	R		Qualifier		RL	MDL	Unit		D	Р	repared	Analy	zed	Dil Fac
Gasoline Range Organics		50.0).0		mg/Kg	1	_		9/21 09:38	06/29/21		1
(GRO)-C6-C10		00.0	•					,		00.2	0,21 00.00	00/20/21		
Diesel Range Organics (Over	<	\$0.0	U	50).0		mg/Kg	I		06/2	9/21 09:38	06/29/21	12:16	1
C10-C28)														
Oll Range Organics (Over C28-C36)	<	\$50.0	U	50).0		mg/Kg	I		06/2	9/21 09:38	06/29/21	12:16	1
Total TPH	<	\$50.0	U	50	0.0		mg/Kg	1		06/2	9/21 09:38	06/29/21	12:16	1
		ΜВ	МВ											
Surrogate	%Reco			Limits						D	repared	Analy	Tod	Dil Fac
1-Chlorooctane		90	Quanner		<u></u>						9/21 09:38	06/29/21		1 Dii Fac
o-Terphenyl		101		70 - 130 70 - 130							9/21 09:38	06/29/21		1
o-reiphenyi		101		70 - 750	,					00/2	9/21 09.30	00/29/21	12.10	,
Lab Sample ID: LCS 880-4722/	2-A								С	lient	Sample	ID: Lab C	ontrol S	Sample
Matrix: Solid													Type: To	
Analysis Batch: 4728													p Batcl	
				Spike	LCS	LCS						%Rec.	p Date.	
Analyte				Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000	902.5			mg/Kg			90	70 - 130		
(GRO)-C6-C10								0 0						
Diesel Range Organics (Over				1000	955.9			mg/Kg			96	70 - 130		
C10-C28)														
	LCS	105												
Surrogate		Qua		Limits										
1-Chlorooctane	97	Quu		70 - 130										
o-Terphenyl	98			70 - 130										
				10-100										
Lab Sample ID: LCSD 880-472	2/3-A							Cli	ent	Sam	ple ID: La	ab Contro	ol Samp	le Dup
Matrix: Solid													· Type: To	
Analysis Batch: 4728													p Batcl	
				Spike	LCSD	LCS	D					%Rec.		RPD
Analyte				Added	Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Limit
Gasoline Range Organics				1000	1032			mg/Kg			103	70 - 130	13	20
(GRO)-C6-C10								0 0						
Diesel Range Organics (Over				1000	1062			mg/Kg			106	70 - 130	10	20
C10-C28)														
	LCSD	LCS	D											
Surrogate	%Recovery			Limits										
1-Chlorooctane	112	quu		70 - 130										
o-Terphenyl	107			70 - 130										
Lab Sample ID: 890-845-1 MS												Client Sa	mple ID	: BH01
Matrix: Solid													Type: To	
Analysis Batch: 4728													p Batcl	
	Sample	Sam	ple	Spike	MS	MS						%Rec.		
Analyte	Result		-	Added	Result		lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics	<49.7			999	783.6		-	mg/Kg		-	78	70 - 130		
(GRO)-C6-C10		-						5.5						
Diesel Range Organics (Over	<49.7	U		999	873.7			mg/Kg			85	70 - 130		
C10-C28)														

Job ID: 890-845-1 SDG: Eddy County

Client: WSP USA Inc. Project/Site: Holly A Federal #006

Lab Sample ID: 890-845-1 MS

Matrix: Solid

Surrogate

o-Terphenyl

1-Chlorooctane

Analysis Batch: 4728

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

MS MS %Recovery Qualifier

90

89

Job ID: 890-845-1 SDG: Eddy County

Client Sample ID: BH01 Prep Type: Total/NA Prep Batch: 4722 5 7 8 9 10 11 12 13 14

Lab Sample ID: 890-845-1 MSE Matrix: Solid)								Client Sar Prep T	nple ID: ype: To	
Analysis Batch: 4728									Pre	p Batch	: 4722
	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	<49.7	U	997	892.7		mg/Kg		90	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<49.7	U	997	1000		mg/Kg		98	70 - 130	14	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	104		70 - 130								
o-Terphenyl	102		70 _ 130								

Limits

70 - 130

70 - 130

Method:	300.0 -	Anions,	lon	Chromatography

Lab Sample ID: MB 880-4824/1-A Matrix: Solid Analysis Batch: 4825											Client S	ample ID: Prep	Method Type: S	
	МВ	мв												
Analyte	Result	Qualifier		RL		MDL	Unit		D	Pr	epared	Analy	zed	Dil Fac
Chloride	<5.00	U		5.00			mg/Kg	l				07/01/21	17:07	1
Lab Sample ID: LCS 880-4824/2-A Matrix: Solid Analysis Batch: 4825									Clie	ent	Sample	ID: Lab C Prep	ontrol S Type: S	
			Spike		LCS	LCS						%Rec.		
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits		
Chloride			250		231.0			mg/Kg			92	90 _ 110		
Lab Sample ID: LCSD 880-4824/3-A Matrix: Solid Analysis Batch: 4825								CI	ient S	am	ple ID:	Lab Contro Prep	ol Sampl Type: S	
			Spike		LCSD	LCS	D					%Rec.		RPD
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride			250		232.2			mg/Kg			93	90 - 110	1	20

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Page 71 of 166

Job ID: 890-845-1 SDG: Eddy County

GC VOA

Prep Batch: 4724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-845-1	BH01	Total/NA	Solid	5035	
MB 880-4724/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4724/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4724/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
Analysis Batch: 4740					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
890-845-1	BH01	Total/NA	Solid	8021B	4724
MB 880-4724/5-A	Method Blank	Total/NA	Solid	8021B	4724
LCS 880-4724/1-A	Lab Control Sample	Total/NA	Solid	8021B	4724
LCSD 880-4724/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4724
GC Semi VOA					
rep Batch: 4722					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-845-1	BH01	Total/NA	Solid	8015NM Prep	
MB 880-4722/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4722/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-845-1 MS	BH01	Total/NA	Solid	8015NM Prep	

GC Semi VOA

Prep Batch: 4722

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-845-1	BH01	Total/NA	Solid	8015NM Prep	
MB 880-4722/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4722/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-845-1 MS	BH01	Total/NA	Solid	8015NM Prep	
890-845-1 MSD	BH01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-845-1	BH01	Total/NA	Solid	8015B NM	4722
MB 880-4722/1-A	Method Blank	Total/NA	Solid	8015B NM	4722
LCS 880-4722/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4722
LCSD 880-4722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4722
890-845-1 MS	BH01	Total/NA	Solid	8015B NM	4722
890-845-1 MSD	BH01	Total/NA	Solid	8015B NM	4722

HPLC/IC

Leach Batch: 4824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep B	atch
890-845-1	BH01	Soluble	Solid	DI Leach	
MB 880-4824/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4824/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4824/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 4825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-845-1	BH01	Soluble	Solid	300.0	4824
MB 880-4824/1-A	Method Blank	Soluble	Solid	300.0	4824
LCS 880-4824/2-A	Lab Control Sample	Soluble	Solid	300.0	4824
LCSD 880-4824/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4824

Lab Sample ID: 890-845-1

Matrix: Solid

Project/Site: Holly A Federal #006 **Client Sample ID: BH01**

Client: WSP USA Inc.

Date Collected: 06/18/21 10:00 Date Received: 06/22/21 11:44

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	4724	06/29/21 14:37	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4740	06/29/21 17:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	4722	06/29/21 09:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4728	06/29/21 13:19	AM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	4824	07/01/21 12:13	СН	XEN MID
Soluble	Analysis	300.0		5			4825	07/01/21 19:53	СН	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad
10

Job ID: 890-845-1 SDG: Eddy County

Project/Site: Holly A Federal #006

Client: WSP USA Inc.

Laboratory: Eurofins Xenco, Midland

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

Authority Progra Texas NELAF		ogram	Identification Number	Expiration Date		
		ELAP	T104704400-20-21			
The following analytes	are included in this report, but	it the laboratory is not certif	fied by the governing authority. This list ma	av include analytes for v		
the agency does not o	ffer certification.	-	, , , , ,	,,,		
• •	•	Matrix Solid	Analyte Total TPH			

Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc. Project/Site: Holly A Federal #006

SDG: Eddy County

ethod	Method Description	Protocol	Laboratory
)21B	Volatile Organic Compounds (GC)	SW846	XEN MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
0.00	Anions, Ion Chromatography	MCAWW	XEN MID
)35	Closed System Purge and Trap	SW846	XEN MID
15NM Prep	Microextraction	SW846	XEN MID
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

Job ID: 890-845-1

Sample Summary

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Job ID: 890-845-1 SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-845-1	BH01	Solid	06/18/21 10:00	06/22/21 11:44	- 6	4
						5
						8
						9
						12
						13

Revised Date: 09/25/2020 Rev 2020 2	0						σ.
	4			-		exercited in	3
	2	1.1.2.21 1139	10.	EN I	Cra	man	1 / MADAC
Received by: (Signature) Date/Time	Relinquished by: (Signature)	Date/Time	ture)	Received by: (Signature)	Rec	/: (Signature)	Relinquished by: (Signature)
aes are due to circumstances beyond the control terms will be enforced unless previously negotiated.	or or or any or any or	iny losses or expenses in le submitted to Eurofins	ime any responsibility for a harge of \$5 for each samp	les and shall not assu each project and a c	or the cost of samp 00 will be applied to	co will be liable only for himum charge of \$85.0	of Service. Eurofins Xen of Eurofins Xenco. A min
	Survey Strusting of this document and religning homent of samples constitutes a valid purchase order from client company to Eurofins Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions	company to Eurofins Xer	urchase order from client	s constitutes a valid r	e allalyzeu	document and relingu	button Signature of this document and religning heart of sar
Ha: 1631	d Cr Co Cu Ph Mn Mo Ni Se	Sh As Ra Re C	T D RATA BRORA				
Mn Mo Ni K Se Ag SiO, Na Sr Ti Sn U V Zn	Cd Ca Cr Co Cu Fe Pb Mg Mn Mo	Sb As Ba Be B	13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co	BRCRA 13P	020:	010 200.8 / 6020:	Total 200.7 / 6010
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04492116548791							/
		XXX	6' Gras 1	2001 10	16/81/91 S		BHDOI
		E	Comp Com	naidilleo	Sampled		
Sample Comments		TPH 3TE	Depth Grab/ # of		Matrix Date	ntification	Sample Identification
NaOH+Ascorbic Acid: SAPC		¥		Corrected Temperature:	Correct	-	Total Containers:
_		6	5.2/50	Temperature Reading:	NIA		Sample Custody Seals:
	890-845 Chain of Custody	ERI	0	Correction Factor:	N/A Correct	Yes	Cooler Custody Seals:
NaHSO4: NABIS		9	DV M OSA	Thermometer ID: 7		-	Samples Received Intact:
H ₃ PO ₄ : HP		115 88 43	No No	No Wet Ice:	lank: Ve No	Temp (SAMPLE RECEIPT
H ₂ SO ₄ : H ₂ NaOH: Na		21	-	the lab, if rec	Reiease	1	PO #:
		B)	TAT starts the day received by	TAT starts th	BYERS	ANVA BY	Sampler's Name:
~)	SDAYTAT	Due Date:	UN V	EDDY COUNTY	Project Location:
None: NO DI Water: H ₂ O			ARush Code	Routine	501.0348	31403360,001.0348	Project Number:
T Preservative Codes	ANALYSIS REQUEST		Turn Around		DEPAL # DE	HOLLY A FEDERAL # DOG	Project Name:
Deliverables: EDU AJAPT L. Other:		5 @ wsp. com	anna. byjes	Email:	-2329	(281) 702	Phone:
	88120	CARLSBAD, WAN	City, State ZIP:	5	S & FUE XI O	MOLAND	City, State ZIP:
	BUENA VISTA DR State	5315 BUE	Address:	7	A STREET	3300 N	Address:
Program: UST/PST PRP Brownfields RRC Superfund	Prog	WPY ENG	Company Name:			WSP USA	Company Name:
Work Order Comments	64	JIM PALEL	Bill to: (if different)	NE R	HERNANDEZ	JOSEPH +	Project Manager:
www.xenco.com Page of	ad, NM (575) 988-3199	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Hobbs, NM (
	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	(915) 585-3443, Lubbc	EL Paso, TX		Xenco	Xe	
Work Order No:	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	idland, TX (432) 704-5440, San Antonio, TX (210) 509-333	Midland, TX (4	Testing	Environment Testing		
	TX (214) 902-0300	(1281) 240-4200 Dalls	Houston T			fine	eurofins

7/2/2021

eurofins -

Chain of Custody

5

Job Number: 890-845-1 SDG Number: Eddy County

List Source: Eurofins Xenco, Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 845 List Number: 1 Creator: Olivas, Nathaniel

<6mm (1/4").

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

N/A

Eurofins Xenco, Carlsbad Released to Imaging: 1/14/2022 1:37:10 PM

Containers requiring zero headspace have no headspace or bubble is

Job Number: 890-845-1 SDG Number: Eddy County

List Source: Eurofins Xenco, Midland

List Creation: 06/23/21 11:29 AM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 845 List Number: 2 Creator: Copeland, Tatiana

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 9/1/2021 7:57:16 AM

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-847-1

Laboratory Sample Delivery Group: Eddy County Client Project/Site: Holly A Federal #006

For:

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

Attn: Joseph Hernandez

RAMER

Authorized for release by: 7/2/2021 9:29:45 AM

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

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

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

Visit us at: www.eurofinsus.com/Env

LINKS

Review your project results through

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Have a Question?

Ask-

The

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	Definitions/Glossary	
Client: WSP US	-	1
Project/Site: Ho	olly A Federal #006 SDG: Eddy Count	у
Qualifiers		
GC VOA		
Qualifier	Qualifier Description	
S1-	Surrogate recovery exceeds control limits, low biased.	-
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		1
Qualifier	Qualifier Description	_
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)	

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

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

Method Quantitation Limit

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

ML

MPN

MQL

NC

ND NEG

POS

PQL

PRES QC

RER

RPD TEF

TEQ TNTC

RL

Job ID: 890-847-1 SDG: Eddy County

Job ID: 890-847-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-847-1

Receipt

The sample was received on 6/22/2021 11:39 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: BH02 (890-847-1).

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

4

Job ID: 890-847-1 SDG: Eddy County

Client Sample ID: BH02

Project/Site: Holly A Federal #006

Date Collected: 06/18/21 15:35 Date Received: 06/22/21 11:39

Sample Depth: - 6

Chloride

Client: WSP USA Inc.

SDG: Eddy Cou

Lab Sample ID: 890-847-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/21 14:37	06/29/21 18:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/21 14:37	06/29/21 18:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/21 14:37	06/29/21 18:13	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/29/21 14:37	06/29/21 18:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/21 14:37	06/29/21 18:13	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/29/21 14:37	06/29/21 18:13	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		06/29/21 14:37	06/29/21 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				06/29/21 14:37	06/29/21 18:13	1
1,4-Difluorobenzene (Surr)	96		70 - 130				06/29/21 14:37	06/29/21 18:13	1
Nethod: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Method: 8015B NM - Diesel Ran Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 06/29/21 09:38	Analyzed 06/29/21 14:22	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	06/29/21 09:38	06/29/21 14:22	Dil Fac
Analyte Gasoline Range Organics	Result	Qualifier U		MDL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U U	49.9	MDL	mg/Kg	<u> </u>	06/29/21 09:38	06/29/21 14:22	Dil Fac 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U U	49.9	MDL	mg/Kg	<u> </u>	06/29/21 09:38 06/29/21 09:38	06/29/21 14:22 06/29/21 14:22	1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	06/29/21 09:38 06/29/21 09:38 06/29/21 09:38	06/29/21 14:22 06/29/21 14:22 06/29/21 14:22	Dil Fac 1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u> </u>	06/29/21 09:38 06/29/21 09:38 06/29/21 09:38 06/29/21 09:38	06/29/21 14:22 06/29/21 14:22 06/29/21 14:22 06/29/21 14:22	1 1 1
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Total TPH Surrogate I-Chlorooctane		Qualifier U U U U	49.9 49.9 49.9 49.9 49.9 Limits	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	06/29/21 09:38 06/29/21 09:38 06/29/21 09:38 06/29/21 09:38 Prepared	06/29/21 14:22 06/29/21 14:22 06/29/21 14:22 06/29/21 14:22 Analyzed	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <102 102 107	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 <u>Limits</u> 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u> </u>	06/29/21 09:38 06/29/21 09:38 06/29/21 09:38 06/29/21 09:38 Prepared 06/29/21 09:38	06/29/21 14:22 06/29/21 14:22 06/29/21 14:22 06/29/21 14:22 06/29/21 14:22 Analyzed 06/29/21 14:22	1 1 1 1 1 1

5.03

mg/Kg

30.9

07/01/21 19:59

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5 6

Job ID: 890-847-1 SDG: Eddy County

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

Matrix: Solid				Prep Type: Total/NA
-				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-847-1	BH02	98	96	
LCS 880-4724/1-A	Lab Control Sample	87	97	
LCSD 880-4724/2-A	Lab Control Sample Dup	94	102	
MB 880-4724/5-A	Method Blank	60 S1-	82	
Surrogate Legend				
BFB = 4-Bromofluorob	enzene (Surr)			
DFBZ = 1,4-Difluorobe	nzene (Surr)			
 Method: 8015B NM	I - Diesel Range Organics	s (DRO) (GC)	
Aatrix: Solid			,	Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits) 1CO1 OTPH1 (70-130) (70-130) Lab Sample ID **Client Sample ID** 890-847-1 BH02 102 107 LCS 880-4722/2-A Lab Control Sample 97 98 LCSD 880-4722/3-A Lab Control Sample Dup 112 107 MB 880-4722/1-A Method Blank 90 101 Surrogate Legend 1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample	ID: MB	880-4724/5-A

Matrix: Solid Analysis Batch: 4740

Analysis Batch: 4740								Prep Bate	:h: 4724
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60	S1-	70 - 130				06/29/21 10:28	06/29/21 16:33	1
1,4-Difluorobenzene (Surr)	82		70 - 130				06/29/21 10:28	06/29/21 16:33	1

Lab Sample ID: LCS 880-4724/1-A Matrix: Solid Analysis Batch: 4740

Spike	LCS	LCS				%Rec.	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.08480		mg/Kg		85	70 - 130	
0.100	0.08425		mg/Kg		84	70 _ 130	
0.100	0.08202		mg/Kg		82	70 - 130	
0.200	0.1733		mg/Kg		87	70 _ 130	
0.100	0.08872		mg/Kg		89	70 _ 130	
	Added 0.100 0.100 0.100 0.100 0.200	Added Result 0.100 0.08480 0.100 0.08425 0.100 0.08202 0.200 0.1733	Added Result Qualifier 0.100 0.08480	Added Result Qualifier Unit 0.100 0.08480 mg/Kg 0.100 0.08425 mg/Kg 0.100 0.08202 mg/Kg 0.200 0.1733 mg/Kg	Added Result Qualifier Unit D 0.100 0.08480 mg/Kg 0.100 0.08425 mg/Kg 0.100 0.08202 mg/Kg 0.200 0.1733 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.08480 mg/Kg 85 0.100 0.08425 mg/Kg 84 0.100 0.08202 mg/Kg 82 0.200 0.1733 mg/Kg 87	Added Result Qualifier Unit D %Rec Limits 0.100 0.08480 mg/Kg 85 70 - 130 0.100 0.08425 mg/Kg 84 70 - 130 0.100 0.08202 mg/Kg 82 70 - 130 0.200 0.1733 mg/Kg 87 70 - 130

	LCS LCS	
Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	87	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: LCSD 880-4724/2-A Matrix: Solid

Analysis Batch: 4740									Pre	p Batch	: 4724
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.09235		mg/Kg		92	70 - 130	9	35
Toluene			0.100	0.1077		mg/Kg		108	70 - 130	24	35
Ethylbenzene			0.100	0.09178		mg/Kg		92	70 - 130	11	35
m-Xylene & p-Xylene			0.200	0.1939		mg/Kg		97	70 - 130	11	35
o-Xylene			0.100	0.09922		mg/Kg		99	70 - 130	11	35
	LCSD	LCSD									
Surrogate	%Recoverv	Qualifier	Limits								

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA	
Prep Batch: 4724	l

Prep Type: Total/NA

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Job ID: 890-847-1

SDG: Eddy County

Prep Type: Total/NA

Client Sample ID: Method Blank

QC Sample Results

Client: WSP USA Inc. Project/Site: Holly A Federal #006

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

Lab Sample ID: MB 880-4722/1	- A											Client Sa	mple ID: N	/lethoo	l Blan
Matrix: Solid													Prep T	ype: To	otal/N/
Analysis Batch: 4728													Prep	Batcl	h: 472
	I	мвι	МВ												
Analyte	Res	sult (Qualifier		RL		MDL	Unit		D	P	repared	Analyze	∋d	Dil Fa
Gasoline Range Organics	<5	0.0	U		50.0			mg/Kg		_	06/2	9/21 09:38	06/29/21 1	2:16	
(GRO)-C6-C10															
Diesel Range Organics (Over	<5	0.0	U		50.0			mg/Kg			06/2	9/21 09:38	06/29/21 1	2:16	
C10-C28)															
Oll Range Organics (Over C28-C36)		0.0			50.0			mg/Kg				9/21 09:38	06/29/21 1		
Total TPH	<5	0.0	U		50.0			mg/Kg			06/2	9/21 09:38	06/29/21 1	2:16	
		мв	МВ												
Surrogate	%Recov		Qualifier	Lim	its						P	repared	Analyze	ed	Dil Fa
1-Chlorooctane		90			130							9/21 09:38	06/29/21 1		
o-Terphenyl	-	101			130							9/21 09:38	06/29/21 1		
_ab Sample ID: LCS 880-4722/	2-A									C	lient	Sample	ID: Lab Co	ntrol S	Sampl
Matrix: Solid													Prep T		
Analysis Batch: 4728														b Batcl	
				Spike		LCS	LCS						%Rec.		
Analyte				Added		Result	Qua	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000		902.5			mg/Kg		—	90	70 - 130		
GRO)-C6-C10									5 5						
Diesel Range Organics (Over				1000		955.9			mg/Kg			96	70 - 130		
C10-C28)															
	LCS I	201													
		Qualit	fior	Limits											
I-Chlorooctane		guain		70 - 130	-										
p-Terphenyl	98			70 - 130 70 - 130											
reipiienyi	50			10 - 100											
Lab Sample ID: LCSD 880-472	2/3-A								Cli	ent	Sam	ple ID: L	ab Control	Samp	ole Du
Matrix: Solid										••••			Prep T		
Analysis Batch: 4728														Batcl	
				Spike		LCSD	LCS	D					%Rec.		RP
Analyte				Added		Result			Unit		D	%Rec	Limits	RPD	Lim
Gasoline Range Organics				1000		1032			mg/Kg		_	103	70 - 130	13	2
GRO)-C6-C10															-
Diesel Range Organics (Over				1000		1062			mg/Kg			106	70 - 130	10	2
C10-C28)															
	LCSD I	000													
Surrogate		Qualit		Limits											
1-Chlorooctane		zuam		70 - 130	-										
p-Terphenyl	107			70 - 130 70 - 130											
- Terphenyi	107			10 - 130											
ethod: 300.0 - Anions, lo	n Chromato	gra	phy												
_ab Sample ID: MB 880-4824/1	-A											Client Sa	mple ID: N	lethor	l Blan
Matrix: Solid												5		Type: S	
Analysis Batch: 4825													-ieh	iype. c	Joiub
-mary 515 Daten. 4025		мв	MB												
Analyta							MDI	110:4		P	-	ronore d	A		DH F-
Analyte	Kes		Qualifier		RL		NDL	Unit		D	- 1	repared	Analyze	-u	Dil Fa

Job ID: 890-847-1 SDG: Eddy County

Eurofins Xenco, Carlsbad

07/01/21 17:07

mg/Kg

Chloride

5.00

<5.00 U

QC Sample Results

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Job ID: 890-847-1 SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-4824/2-A Matrix: Solid Analysis Batch: 4825					Client	Sample	e ID: Lab Co Prep	ontrol Sa Type: So	
Analysis Datch. 4025	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	231.0		mg/Kg		92	90 - 110		
Lab Sample ID: LCSD 880-4824/3-A Matrix: Solid Analysis Batch: 4825				Clie	nt Sam	nple ID:	Lab Contro Prep	ol Sampl Type: Se	
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	232.2		mg/Kg		93	90 _ 110	1	20

Client: WSP USA Inc. Project/Site: Holly A Federal #006

Job ID: 890-847-1 SDG: Eddy County

GC VOA

Prep Batch: 4724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-847-1	BH02	Total/NA	Solid	5035	
MB 880-4724/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4724/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4724/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
Analysis Batch: 4740					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-847-1	BH02	Total/NA	Solid	8021B	4724
MB 880-4724/5-A	Method Blank	Total/NA	Solid	8021B	4724
LCS 880-4724/1-A	Lab Control Sample	Total/NA	Solid	8021B	4724
LCSD 880-4724/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4724
GC Semi VOA					
Prep Batch: 4722					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-847-1	BH02	Total/NA	Solid	8015NM Prep	
MB 880-4722/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4722/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

GC Semi VOA

Prep Batch: 4722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-847-1	BH02	Total/NA	Solid	8015NM Prep	
MB 880-4722/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4722/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4728

Lab Sample ID 890-847-1	Client Sample ID BH02	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 4722
MB 880-4722/1-A	Method Blank	Total/NA	Solid	8015B NM	4722
LCS 880-4722/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4722
LCSD 880-4722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4722

HPLC/IC

Leach Batch: 4824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-847-1	BH02	Soluble	Solid	DI Leach	
MB 880-4824/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4824/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4824/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 4825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-847-1	BH02	Soluble	Solid	300.0	4824
MB 880-4824/1-A	Method Blank	Soluble	Solid	300.0	4824
LCS 880-4824/2-A	Lab Control Sample	Soluble	Solid	300.0	4824
LCSD 880-4824/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4824

Job ID: 890-847-1 SDG: Eddy County

Lab Sample ID: 890-847-1

Client: WSP USA Inc. Project/Site: Holly A Federal #006

Client Sample ID: BH02 Date Collected: 06/18/21 15:35 Date Received: 06/22/21 11:39

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	4724	06/29/21 14:37	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4740	06/29/21 18:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	4722	06/29/21 09:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4728	06/29/21 14:22	AM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	4824	07/01/21 12:13	СН	XEN MID
Soluble	Analysis	300.0		1			4825	07/01/21 19:59	СН	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

Matrix: Solid

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Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Job ID: 890-847-1 SDG: Eddy County

Laboratory: Eurofins Xenco, Midland

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

uthority		ogram	Identification Number	Expiration Date		
as	N	ELAP	T104704400-20-21	06-30-22		
The following analytes	are included in this report. bu	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for		
the agency does not of	fer certification.	Motrix				
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte			
the agency does not of	fer certification.	Matrix Solid				

Eurofins Xenco, Carlsbad

Released to Imaging: 1/14/2022 1:37:10 PM

Method Summary

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Job ID: 890-847-1 SDG: Eddy County

Nethod	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
3015NM Prep	Microextraction	SW846	XEN MID
OI 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

DG: Eddy County

	5
	8
	9
-	11
-	13

Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Job ID: 890-847-1 SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-847-1	BH02	Solid	06/18/21 15:35	06/22/21 11:39	- 6	4
						5
						8
						9
						12
						13

Environment Testing Houston, TX (281) 240-4200, Dal Midland, TX (432) 704-5440, San Ar EL Pao, TX (432) 704-5440, San Ar Hobs, MM (57) 392-7550, Calify A AFEOERA, TREET Bill to: (if different) TAN AND, TX, TPITOS Company Name: VA Company Name: VA A COLEAN, TREET Address: S-34,5 Address: A COLEAN, TREET Image: S-100 Million Company Name: VA A COLEAN, TREET Image: S-100 Million Calify Size (200) A COLEAN, TREET Image: S-100 Million Calify Size (200) A COLEAN, TREET Turn Around Paint VA A COLEAN, TREET Turn Around Paint Paint A COLEAN, TREET Turn Around Paint Paint A COLEAN, TREET Data Signature Paint Paint A Cole Arder Signature Signature Calean Paint Paint	Revised Take 08250020 Rev 2020 2				The mar	- ingero	3 JAMAN
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.: 9-14- Comments strust T Other: T Other: T Other: None: None: None: None: Other: T Cool: Cool: Cool: Cool: Cool: Nalso,: NABIS Na2520;: NaOH+Ascorbic Acia Sample Com HD1- HD1- NaOH+Ascorbic Acia Sample Com HD2- 1245:1/7470	d unless previously negotiated.	yy the client if such losses are due to circums ut not analyzed. These terms will be enforced	any losses or expenses incurred ple submitted to Eurofins Xenco, b	ot assume any responsibility for and a charge of \$5 for each sam	cost of samples and shall no be applied to each project a	fins Xenco will be liable only for the o. A minimum charge of \$85.00 will	of service. Euro of Eurofins Xen
Human Trasting Human Trasting with the standard transmit to the standard tra	dard terms and conditions	filiates and subcontractors. It assigns stands	company to Eurofins Xenco, its a	valid purchase order from clien	ent of samples constitutes a	e of this document and relinquishm	Notice: Signatu
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Human: Tr (201) 204000, Daw, Tr (201) 204000, Daw, Tr (2010) 20400, Daw, Tr (2010) 204000, Daw, Tr (2010) 20400, Daw, Tr (2010)	K Se Ag SiO, Na Sr Ti Sn L		Sb As Ba Be B Cd Ca	Texas 11	8RCRA		
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Function Environment Testing Houten TX (201) 204/201, Data, TX (2010) 204/201,							
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		214) 902-0300	X (281) 240-4200, Dallas, TX (2	Houston. T		urofins	

7/2/2021

Chain of Custody

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14

Job Number: 890-847-1 SDG Number: Eddy County

List Source: Eurofins Xenco, Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 847 List Number: 1 Creator: Olivas, Nathaniel

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	

N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-847-1 SDG Number: Eddy County

List Source: Eurofins Xenco, Midland

List Creation: 06/23/21 11:27 AM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 847 List Number: 2 Creator: Copeland, Tatiana

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 9/1/2021 7:57:16 AM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-848-1

Laboratory Sample Delivery Group: Eddy County Client Project/Site: Holly A Federal #006

For:

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

Attn: Joseph Hernandez

RAMER

Authorized for release by: 7/2/2021 9:30:57 AM

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

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

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

Visit us at: www.eurofinsus.com/Env

LINKS

Review your project results through

Total Access

Have a Question?

Ask-

The

Expert

Released to Imaging: 1/14/2022 1:37:10 PM

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Method Summary	13
Sample Summary	14
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	Definitions/Glossary	
Client: WSP US		
-	Ily A Federal #006 SDG: Eddy County	
Qualifiers		. 3
GC VOA Qualifier	Qualifier Description	4
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi VOA Qualifier	Qualifier Description	6
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC Qualifier	Qualifier Description	
	Indicates the analyte was analyzed for but not detected.	8
Glossary		. 9
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	4 2
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)	

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Method Quantitation Limit

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

MPN

MQL

NC

ND NEG

POS

PQL

PRES QC

RER

RPD TEF

TEQ

TNTC

RL

Job ID: 890-848-1 SDG: Eddy County

Job ID: 890-848-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-848-1

Receipt

The sample was received on 6/22/2021 11:39 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: BH03 (890-848-1).BTEX8021

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

4

Job ID: 890-848-1 SDG: Eddy County

Client Sample ID: BH03

Project/Site: Holly A Federal #006

Client: WSP USA Inc.

Lab Sample ID: 890-848-1

ate Collected: 06/18/21 15:25								Matri	ix: Solid
ate Received: 06/22/21 11:39 ample Depth: - 6									
Method: 8021B - Volatile Organio	c Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	_	mg/Kg	_	06/29/21 14:37	06/29/21 22:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/21 14:37	06/29/21 22:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/21 14:37	06/29/21 22:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/29/21 14:37	06/29/21 22:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/21 14:37	06/29/21 22:29	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/29/21 14:37	06/29/21 22:29	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		06/29/21 14:37	06/29/21 22:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				06/29/21 14:37	06/29/21 22:29	1
1,4-Difluorobenzene (Surr)	81		70 - 130				06/29/21 14:37	06/29/21 22:29	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/29/21 09:38	06/29/21 14:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/29/21 09:38	06/29/21 14:42	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/29/21 09:38	06/29/21 14:42	1
Total TPH	<50.0	U	50.0		mg/Kg		06/29/21 09:38	06/29/21 14:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

o-Terphenyl	114		70 - 130				06/29/21 09:38	06/29/21 14:42	1
Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1060		4.97		mg/Kg			07/01/21 20:05	1

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Job ID: 890-848-1
SDG: Eddy County

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

		DED4	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)		5
890-848-1	BH03	92	81	· ·	
LCS 880-4724/1-A	Lab Control Sample	87	97		6
LCSD 880-4724/2-A	Lab Control Sample Dup	94	102		
MB 880-4724/5-A	Method Blank	60 S1-	82		
Surrogate Legend BFB = 4-Bromofluorob	enzene (Surr)				8
DFBZ = 1,4-Difluorobe					d
lethod: 8015B NM	I - Diesel Range Organics	s (DRO) (GC	;)		
	0 0			Prep Type: Total/NA	
latrix: Solid					

		1CO1	OTPH1	Ū	,	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)			
890-848-1	BH03	106	114		 	
LCS 880-4722/2-A	Lab Control Sample	97	98			
LCSD 880-4722/3-A	Lab Control Sample Dup	112	107			
MB 880-4722/1-A	Method Blank	90	101			
Surrogate Legend						
1CO = 1-Chlorooctane						

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4724/5-A

Matrix: Solid Analysis Batch: 4740

Analysis Batch: 4740								Prep Bate	:h: 4724
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60	S1-	70 - 130				06/29/21 10:28	06/29/21 16:33	1
1,4-Difluorobenzene (Surr)	82		70 - 130				06/29/21 10:28	06/29/21 16:33	1

Lab Sample ID: LCS 880-4724/1-A Matrix: Solid Analysis Batch: 4740

Spike	LCS	LCS				%Rec.	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.08480		mg/Kg		85	70 - 130	
0.100	0.08425		mg/Kg		84	70 - 130	
0.100	0.08202		mg/Kg		82	70 - 130	
0.200	0.1733		mg/Kg		87	70 _ 130	
0.100	0.08872		mg/Kg		89	70 _ 130	
	Added 0.100 0.100 0.100 0.100 0.200	Added Result 0.100 0.08480 0.100 0.08425 0.100 0.08202 0.200 0.1733	Added Result Qualifier 0.100 0.08480	Added Result Qualifier Unit 0.100 0.08480 mg/Kg 0.100 0.08425 mg/Kg 0.100 0.08202 mg/Kg 0.200 0.1733 mg/Kg	Added Result Qualifier Unit D 0.100 0.08480 mg/Kg 0.100 0.08425 mg/Kg 0.100 0.08202 mg/Kg 0.200 0.1733 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.08480 mg/Kg 85 0.100 0.08425 mg/Kg 84 0.100 0.08202 mg/Kg 82 0.200 0.1733 mg/Kg 87	Added Result Qualifier Unit D %Rec Limits 0.100 0.08480 mg/Kg 85 70 - 130 0.100 0.08425 mg/Kg 84 70 - 130 0.100 0.08202 mg/Kg 82 70 - 130 0.200 0.1733 mg/Kg 87 70 - 130

	LCS LCS	
Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	87	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: LCSD 880-4724/2-A Matrix: Solid

Analysis Batch: 4740									Pre	p Batch:	: 4724
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.09235		mg/Kg		92	70 - 130	9	35
Toluene			0.100	0.1077		mg/Kg		108	70 - 130	24	35
Ethylbenzene			0.100	0.09178		mg/Kg		92	70 - 130	11	35
m-Xylene & p-Xylene			0.200	0.1939		mg/Kg		97	70 - 130	11	35
o-Xylene			0.100	0.09922		mg/Kg		99	70 - 130	11	35
	LCSD	LCSD									
Surrogate	%Recoverv	Qualifier	Limits								

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 4724

Prep Type: Total/NA

		-	

Prep Type: Total/NA

Client Sample ID: Method Blank

QC Sample Results

Client: WSP USA Inc. Project/Site: Holly A Federal #006

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

Lab Sample ID: MB 880-4722/1	- A											Client Sa	mple ID: I	Method	l Blan
Matrix: Solid													Prep T	ype: To	otal/N/
Analysis Batch: 4728													Pre	p Batcl	h: 472
	I	ΜВ	мв												
Analyte	Res	sult	Qualifier		RL		MDL	Unit		D	P	repared	Analyz	ed	Dil Fa
Gasoline Range Organics	<5	0.0	U		50.0			mg/Kg		_	06/2	9/21 09:38	06/29/21	12:16	
GRO)-C6-C10															
Diesel Range Organics (Over	<5	0.0	U		50.0			mg/Kg			06/2	9/21 09:38	06/29/21 ^	12:16	
C10-C28)	_														
Oll Range Organics (Over C28-C36)		0.0			50.0			mg/Kg				9/21 09:38	06/29/21		
Fotal TPH	<5	0.0	U		50.0			mg/Kg			06/2	9/21 09:38	06/29/21	12:16	
		ΜВ	МВ												
Surrogate	%Recov	ery	Qualifier	Lim	its						P	repared	Analyz	ed	Dil Fa
1-Chlorooctane		90		70 -	130							9/21 09:38	06/29/21		
o-Terphenyl	-	101		70 -	130						06/2	9/21 09:38	06/29/21	12:16	
_ab Sample ID: LCS 880-4722/	2-A									С	lient	Sample	ID: Lab Co	ontrol S	Sampl
Matrix: Solid												-	Prep T		
Analysis Batch: 4728														p Batcl	
-				Spike		LCS	LCS						%Rec.		
Analyte				Added		Result	Qua	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000		902.5			mg/Kg		_	90	70 - 130		
GRO)-C6-C10															
Diesel Range Organics (Over				1000		955.9			mg/Kg			96	70 - 130		
C10-C28)															
	LCS I	LCS													
Surrogate		Quali	fier	Limits											
I-Chlorooctane	97			70 - 130	-										
p-Terphenyl	98			70 - 130											
_ab Sample ID: LCSD 880-472	2/3-A								Cli	ent	Sam	ple ID: L	ab Contro	I Samp	le Du
Matrix: Solid												·	Prep T		
Analysis Batch: 4728														p Batcl	
-				Spike		LCSD	LCS	D					%Rec.		RP
Analyte				Added		Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Lim
Gasoline Range Organics				1000		1032			mg/Kg		_	103	70 - 130	13	2
GRO)-C6-C10															
Diesel Range Organics (Over				1000		1062			mg/Kg			106	70 - 130	10	2
C10-C28)															
	LCSD I	LCSD)												
Surrogate		Quali		Limits											
1-Chlorooctane	112			70 - 130	-										
p-Terphenyl	107			70 - 130											
, ioipiioiigi				102100											
ethod: 300.0 - Anions, Io	n Chromato	gra	iphy												
_ab Sample ID: MB 880-4824/1	-A											Client Sa	Imple ID: I	Methor	l Blan
Matrix: Solid	7											Sherit Ge	-		
													Frep	Type: S	JOIUD
Analysis Batch: 4825		мв	MD												
Ameluda					.			11		~	-	namana d	A I.	لمم	D2 5
Analyte	Kes	suit	Qualifier		RL		NDL	Unit		D	- 1	repared	Analyz	ea	Dil Fa

Job ID: 890-848-1 SDG: Eddy County

Eurofins Xenco, Carlsbad

07/01/21 17:07

Chloride

5.00

mg/Kg

<5.00 U

QC Sample Results

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Job ID: 890-848-1 SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-4824/2-A Matrix: Solid Analysis Batch: 4825					Client	: Sample	e ID: Lab Co Prep	ontrol Sa Type: So					
Analysis Daton. 4025	Spike	LCS	LCS				%Rec.						
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits						
Chloride	250	231.0		mg/Kg		92	90 - 110						
Lab Sample ID: LCSD 880-4824/3-A				Clie	Client Sample ID: Lab Control Sample Dup								
Matrix: Solid							Prep	Type: So	oluble				
Analysis Batch: 4825													
	Spike	LCSD	LCSD				%Rec.		RPD				
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit				
Chloride	250	232.2		mg/Kg		93	90 _ 110	1	20				

Client: WSP USA Inc. Project/Site: Holly A Federal #006

Job ID: 890-848-1 SDG: Eddy County

GC VOA

Prep Batch: 4724

Lab Sample ID 890-848-1	Client Sample ID BH03	Prep Type Total/NA	Matrix	<u>Method</u> 5035	Prep Batch
MB 880-4724/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4724/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4724/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
nalysis Batch: 4740					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-848-1	BH03	Total/NA	Solid	8021B	4724
MB 880-4724/5-A	Method Blank	Total/NA	Solid	8021B	4724
LCS 880-4724/1-A	Lab Control Sample	Total/NA	Solid	8021B	4724
LCSD 880-4724/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4724
C Semi VOA					
rep Batch: 4722					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-848-1	BH03	Total/NA	Solid	8015NM Prep	
MB 880-4722/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4722/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

GC Semi VOA

Prep Batch: 4722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-848-1	BH03	Total/NA	Solid	8015NM Prep	
MB 880-4722/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4722/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4728

Lab Sample ID 890-848-1	Client Sample ID BH03	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 4722
MB 880-4722/1-A	Method Blank	Total/NA	Solid	8015B NM	4722
LCS 880-4722/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4722
LCSD 880-4722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4722

HPLC/IC

Leach Batch: 4824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-848-1	BH03	Soluble	Solid	DI Leach	
MB 880-4824/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4824/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4824/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 4825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-848-1	BH03	Soluble	Solid	300.0	4824
MB 880-4824/1-A	Method Blank	Soluble	Solid	300.0	4824
LCS 880-4824/2-A	Lab Control Sample	Soluble	Solid	300.0	4824
LCSD 880-4824/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4824

Job ID: 890-848-1 SDG: Eddy County

Lab Sample ID: 890-848-1

Matrix: Solid

Client: WSP USA Inc. Project/Site: Holly A Federal #006

Client Sample ID: BH03 Date Collected: 06/18/21 15:25 Date Received: 06/22/21 11:39

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	4724	06/29/21 14:37	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4740	06/29/21 22:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	4722	06/29/21 09:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4728	06/29/21 14:42	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	4824	07/01/21 12:13	СН	XEN MID
Soluble	Analysis	300.0		1			4825	07/01/21 20:05	СН	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

Released to Imaging: 1/14/2022 1:37:10 PM

10

Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Job ID: 890-848-1 SDG: Eddy County

Laboratory: Eurofins Xenco, Midland

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

uthority		rogram	Identification Number	Expiration Date
as	N	ELAP	T104704400-20-21	06-30-22
The following analytes	are included in this report. bu	ut the laboratory is not certifi	ied by the governing authority. This list ma	av include analytes for
the agency does not of	fer certification.			,,,
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	
the agency does not of	fer certification.			

Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc. Project/Site: Holly A Federal #006

Job ID: 890-848-1 SDG: Eddy County

Nethod	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
3015B 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
OI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Eurofins Xenco, Carlsbad
Sample Summary

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Job ID: 890-848-1 SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-848-1	BH03	Solid	06/18/21 15:25	06/22/21 11:39	- 6	4
						5
						8
						9
						12
						13

Notice: Signature of this document and rel of service. Eurofins Xenco. Will be liable or of Eurofins Xenco. A minimum charge of 8 Relinquished by: (Signature) 1 Quarker Byers 3	Project Manager: Tose PH HEP/NA Company Name: WSP USA Address: 3300 A Adress: Address: 3300 A A City, State ZIP: MIDLAND, TX Project Name: HbLLY A FEDEPA Project Number: 314/0333/w2.4071X Project Number: 314/0333/w2.4071X Sample's Name: ANNA BY E 2 Po #: A ANA BY E 2 Samples Received Intact: Yes No No Sample Custody Seals: Yes No NA DHP(3) G Matrix Secondarianers Dotal Containers: Co Katrix Secondarianers Total 200.7/6010 200.8 / 6020: Secondarianers Secondarianers	🔹 eurofins
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. A minimum charge of \$55 or 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 to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$55 or each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated to each graphical to each by: (Signature) Received by: (Signature) Received by: (Signature) Ca/21/1r: 3 of Anne Byers U. W. W. W. Standard terms and conditions of \$22/21/1r: 3 of \$2	RR BR	
mples constitutes a valid purchase order from client com samples and shall not assume any responsibility for any ied to each project and a charge of \$5 for each sample s Received by: (Signature)	Bill to: (if Compan Address City, Sta City, St	
mpany to Eurofins Xenco, its affiliat submitted to Eurofins Xenco, but no Date/Time Relinqui 2/2////::392 4	EL Paso, TX (915) 585-3443, Lubbock, TX (805) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Pres. Child Comp Comp Comp Comp Comp Comp Comp Comp Comp Conde Comp Comp Comp Comp Comp Comp Comp Comp Conde Comp Conde Chlouide State State Chlouide State State Chlouide State State Conde State State Chlouide	Chain of Custody Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
, its affiliates and subcontractors. It assigns st irred by the client if such losses are due to circ ico, but not analyzed. These terms will be enfo Relinquished by: (Signatture)		Y 902-0300 0) 50 9 -3334
andard terms and conditions umstances beyond the control ced unless previously negotiated. Received by: (Signature)	Work Order C ST PRP Brown D ADaPT ADaPT K Se Ag SiO, N	Work Order No: <u> </u>
Date/Time Revised Date: 08/25/2020 Rev 2020 2	renco.com Page of or rk Order Comments RP Brownfields RRC Superfund abaPT Preservative Codes AbaPT Other: AbaPT Cool: Cool None: NO DI Water: H ₂ O Cool: Cool Cool: Cool NeoH: Me HCL: HC HNO ₃ : HN H ₂ So ₄ : H ₂ NaOH: Na H ₃ PO ₄ : HP NaOH: Na H ₃ PO ₄ : HP NaOH: Na H ₃ PO ₄ : HP NaOH: Acetate+NaOH: Zn Acetate+NaOH: Zn Acetate+NaOH: Zn Acetate: SAPC Sample Comments Ag SiO, Na Sr TI Sn UV 78	348

14

Job Number: 890-848-1 SDG Number: Eddy County

List Source: Eurofins Xenco, Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 848 List Number: 1 Creator: Olivas, Nathaniel

<6mm (1/4").

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

N/A

Containers requiring zero headspace have no headspace or bubble is

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 848 List Number: 2 Creator: Copeland, Tatiana

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	False	
COC is filled out in ink and legible.	False	
COC is filled out with all pertinent information.	False	
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	
here is sufficient vol. for all requested analyses, incl. any requested /IS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-848-1 SDG Number: Eddy County

List Source: Eurofins Xenco, Midland List Creation: 06/23/21 11:28 AM Received by OCD: 9/1/2021 7:57:16 AM

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

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-849-1

Laboratory Sample Delivery Group: Eddy County Client Project/Site: Holly A Federal #006

For:

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

Attn: Joseph Hernandez

RAMER

Authorized for release by: 7/2/2021 9:32:17 AM

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

Have a Question?

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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.

Laboratory Job ID: 890-849-1 SDG: Eddy County

Page 114 of 166

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Chain of Custody	15
Receipt Checklists	17

	Definitions/Glossary		
Client: WSP U	-	Job ID: 890-849-1	
	Iolly A Federal #006	SDG: Eddy County	
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		
S1-	Surrogate recovery exceeds control limits, low biased.		-
U	Indicates the analyte was analyzed for but not detected.		Ę
GC Semi VOA	N Contraction of the second		
Qualifier	Qualifier Description		
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.		8
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		4
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		

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Method Quantitation Limit

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

ML

MPN

MQL

NC ND

NEG

POS

PQL

PRES QC

RER

RPD

TEF

TEQ

TNTC

RL

Job ID: 890-849-1 SDG: Eddy County

Job ID: 890-849-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-849-1

Receipt

The sample was received on 6/22/2021 11:39 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: BH04 (890-849-1)

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

4

5

RL

0.00200

0.00200

0.00200

0.00399

0.00200

0.00399

0.00399

Limits

70 - 130

70 - 130

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

06/29/21 14:37

06/29/21 14:37

06/29/21 14:37

06/29/21 14:37

06/29/21 14:37

06/29/21 14:37

06/29/21 14:37

Prepared

06/29/21 14:37

06/29/21 14:37

Job ID: 890-849-1 SDG: Eddy County

Client Sample ID: BH04

Project/Site: Holly A Federal #006

Date Collected: 06/18/21 14:58 Date Received: 06/22/21 11:39

Sample Depth: - 6

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Client: WSP USA Inc.

Lab Sample ID: 890-849-1

Analyzed

06/29/21 22:54

06/29/21 22:54

06/29/21 22:54

06/29/21 22:54

06/29/21 22:54

06/29/21 22:54

06/29/21 22:54

Analyzed

06/29/21 22:54

06/29/21 22:54

Matrix: Solid

5 Dil Fac

1

1

1

1

1

8
9

Dil Fac 1 1

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

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00399 U

<0.00200 U

<0.00399 U

<0.00399 U

91

88

Qualifier

%Recovery

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		06/29/21 09:38	06/29/21 15:03	1	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		06/29/21 09:38	06/29/21 15:03	1	
C10-C28)										
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/29/21 09:38	06/29/21 15:03	1	
Total TPH	<49.8	U	49.8		mg/Kg		06/29/21 09:38	06/29/21 15:03	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	106		70 - 130				06/29/21 09:38	06/29/21 15:03	1	
o-Terphenyl	115		70 - 130				06/29/21 09:38	06/29/21 15:03	1	
_ Method: 300.0 - Anions, Ion Chro	omatography -	Soluble								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analvzed	Dil Fac	

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	215	4.95	mg/Kg			07/01/21 20:12	1

Project/Site: Holly A Federal #006

Job ID: 890-849-1 SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Client: WSP USA Inc.

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)	4
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-849-1	BH04	91	88	·	
LCS 880-4724/1-A	Lab Control Sample	87	97		6
LCSD 880-4724/2-A	Lab Control Sample Dup	94	102		
MB 880-4724/5-A	Method Blank	60 S1-	82		
Surrogate Legend					0
BFB = 4-Bromofluorob					Ο
DFBZ = 1,4-Difluorobe	enzene (Surr)				g
Method: 8015B NM	M - Diesel Range Organics	s (DRO) (GC	;)		
Matrix: Solid				Prep Type: Total/NA	
_				Percent Surrogate Recovery (Acceptance Limits)	

				Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-849-1	BH04	106	115		
LCS 880-4722/2-A	Lab Control Sample	97	98		
LCSD 880-4722/3-A	Lab Control Sample Dup	112	107		
MB 880-4722/1-A	Method Blank	90	101		
Surrogate Legend					
100 = 1-Oblorooctane					

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB	880-4724/5-A

Matrix: Solid Analysis Batch: 4740

Analysis Batch: 4740								Prep Bato	:h: 4724
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60	S1-	70 - 130				06/29/21 10:28	06/29/21 16:33	1
1,4-Difluorobenzene (Surr)	82		70 - 130				06/29/21 10:28	06/29/21 16:33	1

Lab Sample ID: LCS 880-4724/1-A Matrix: Solid Analysis Batch: 4740

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08480		mg/Kg		85	70 - 130	
Toluene	0.100	0.08425		mg/Kg		84	70 - 130	
Ethylbenzene	0.100	0.08202		mg/Kg		82	70 - 130	
m-Xylene & p-Xylene	0.200	0.1733		mg/Kg		87	70 ₋ 130	
o-Xylene	0.100	0.08872		mg/Kg		89	70 - 130	

	LCS LCS	
Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	87	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: LCSD 880-4724/2-A Matrix: Solid

Analysis Batch: 4740									Pre	p Batch	: 4724
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.09235		mg/Kg		92	70 - 130	9	35
Toluene			0.100	0.1077		mg/Kg		108	70 - 130	24	35
Ethylbenzene			0.100	0.09178		mg/Kg		92	70 - 130	11	35
m-Xylene & p-Xylene			0.200	0.1939		mg/Kg		97	70 - 130	11	35
o-Xylene			0.100	0.09922		mg/Kg		99	70 - 130	11	35
	LCSD	LCSD									
Surrogate	%Recoverv	Qualifier	Limits								

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Bato**

Prep Type: Total/NA

ch	: 472	4	
_			

Prep Type: Total/NA

Client Sample ID: Method Blank

QC Sample Results

Client: WSP USA Inc. Project/Site: Holly A Federal #006

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

Matrix, Colid	/1- A								Client Sa	mple ID: Me	thod	Blank
Matrix: Solid										Prep Typ	e: To	tal/NA
Analysis Batch: 4728										Prep I	Batch	: 4722
	N	IB MB										
Analyte	Resu	ult Qualifie	r I	RL	MDL	Unit	D) Р	repared	Analyzed		Dil Fa
Gasoline Range Organics	<50	.0 U	50	0.0		mg/Kg		06/2	9/21 09:38	06/29/21 12:	16	
(GRO)-C6-C10												
Diesel Range Organics (Over	<50	.0 U	50	0.0		mg/Kg		06/2	9/21 09:38	06/29/21 12:	16	
C10-C28)	-50	A 11	-					00/0	0/04 00 00	00/00/04 40		
Oll Range Organics (Over C28-C36)		.0 U		0.0		mg/Kg			9/21 09:38	06/29/21 12:		
Total TPH	<50	.0 U	50	0.0		mg/Kg		06/2	9/21 09:38	06/29/21 12:	16	
	N	1B MB										
Surrogate	%Recove	ry Qualifie	r Limits					P	repared	Analyzed		Dil Fa
1-Chlorooctane		90	70 - 130	2				06/2	9/21 09:38	06/29/21 12:	16	
o-Terphenyl	10	01	70 - 130	0				06/2	9/21 09:38	06/29/21 12:	16	
Lab Sample ID: LCS 880-4722	2/ 2-A							Client	Sample	ID: Lab Cont	rol S	ampl
Matrix: Solid										Prep Typ	e: To	tal/N
Analysis Batch: 4728										Prep I	Batch	: 472
			Spike	LCS	LCS					%Rec.		
Analyte			Added	Result	Qual	ifier Un	t	D	%Rec	Limits		
Gasoline Range Organics			1000	902.5		mg	/Kg		90	70 - 130		
(GRO)-C6-C10												
Diesel Range Organics (Over			1000	955.9		mg	/Kg		96	70 - 130		
C10-C28)												
	LCS L	cs										
Surrogate	%Recovery Q	ualifier	Limits									
1-Chlorooctane	97		70 - 130									
-Child Oblane	51		10 - 130									
	98		70 - 130 70 - 130									
p-Terphenyl	98											
p-Terphenyl	98						Clier	nt Sam	nple ID: La	ab Control S		
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-47 Matrix: Solid	98						Clier	nt Sam	nple ID: La	Ргер Тур	e: To	tal/N/
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-47 Matrix: Solid	98		70 - 130				Clier	nt Sam	nple ID: Li	Prep Typ Prep B	e: To	tal/N/
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-47 Matrix: Solid	98			LCSD	LCSI	D	Clier	nt Sam	nple ID: La	Ргер Тур	e: To	tal/N
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-47 Matrix: Solid Analysis Batch: 4728	98		70 - 130 Spike Added	LCSD Result				nt Sam	nple ID: La	Prep Typ Prep B	e: To	tal/N/ : 472 RP
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-47 Matrix: Solid Analysis Batch: 4728 Analyte Gasoline Range Organics	98		70 ₋ 130 Spike				t		-	Prep Typ Prep I %Rec.	e: To Batch	tal/N/ : 472 RP
o-Terphenyl Lab Sample ID: LCSD 880-47 Matrix: Solid Analysis Batch: 4728 Analyte Gasoline Range Organics (GRO)-C6-C10	98		70 - 130 Spike Added 1000	Result 1032	Qual	ifier Uni mg	t /Kg		%Rec	Prep Typ Prep B %Rec. Limits 70 - 130	e: To Batch RPD 13	tal/N/ : 472 RP Lim
o-Terphenyl Lab Sample ID: LCSD 880-47 Matrix: Solid Analysis Batch: 4728 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	98		70 - 130 Spike Added	Result	Qual	ifier Un	t /Kg		%Rec	Prep Typ Prep E %Rec. Limits	e: To Batch RPD	tal/N
o-Terphenyl Lab Sample ID: LCSD 880-47 Matrix: Solid Analysis Batch: 4728 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	98		70 - 130 Spike Added 1000	Result 1032	Qual	ifier Uni mg	t /Kg		%Rec	Prep Typ Prep B %Rec. Limits 70 - 130	e: To Batch RPD 13	tal/N/ : 472: RPI Lim
o-Terphenyl Lab Sample ID: LCSD 880-47 Matrix: Solid Analysis Batch: 4728 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	98		70 - 130 Spike Added 1000	Result 1032	Qual	ifier Uni mg	t /Kg		%Rec	Prep Typ Prep B %Rec. Limits 70 - 130	e: To Batch RPD 13	tal/N/ : 472: RPI Lim
p- <i>Terphenyl</i> Lab Sample ID: LCSD 880-472 Matrix: Solid Analysis Batch: 4728 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	98 22/3-A 	CSD ualifier	70 - 130 Spike Added 1000	Result 1032	Qual	ifier Uni mg	t /Kg		%Rec	Prep Typ Prep B %Rec. Limits 70 - 130	e: To Batch RPD 13	tal/N/ : 472: RPI Lim
p- <i>Terphenyl</i> Lab Sample ID: LCSD 880-472 Matrix: Solid Analysis Batch: 4728 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	98 22/3-A 		70 - 130 Spike Added 1000	Result 1032	Qual	ifier Uni mg	t /Kg		%Rec	Prep Typ Prep B %Rec. Limits 70 - 130	e: To Batch RPD 13	tal/N/ : 472: RPI Lim
D-Terphenyl Lab Sample ID: LCSD 880-47 Matrix: Solid Analysis Batch: 4728 Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane	98 22/3-A 		70 - 130 Spike Added 1000 1000	Result 1032	Qual	ifier Uni mg	t /Kg		%Rec	Prep Typ Prep B %Rec. Limits 70 - 130	e: To Batch RPD 13	tal/N/ : 472 RP Lim
D-Terphenyl Lab Sample ID: LCSD 880-472 Matrix: Solid Analysis Batch: 4728 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane D-Terphenyl	98 22/3-A 	ualifier	70 - 130 Spike Added 1000 1000 <u>Limits</u> 70 - 130	Result 1032	Qual	ifier Uni mg	t /Kg		%Rec	Prep Typ Prep B %Rec. Limits 70 - 130	e: To Batch RPD 13	tal/N/ : 472 RP Lim
D-Terphenyl Lab Sample ID: LCSD 880-472 Matrix: Solid Analysis Batch: 4728 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane D-Terphenyl lethod: 300.0 - Anions, Ic	98 22/3-A 	ualifier	70 - 130 Spike Added 1000 1000 <u>Limits</u> 70 - 130	Result 1032	Qual	ifier Uni mg	t /Kg	<u>D</u>	%Rec 103 106	Prep Typ Prep E %Rec. Limits 70 - 130 70 - 130	e: To Batch RPD 13 10	tal/N. : 472 RP Lim 2
D-Terphenyl Lab Sample ID: LCSD 880-472 Matrix: Solid Analysis Batch: 4728 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane D-Terphenyl lethod: 300.0 - Anions, Ic Lab Sample ID: MB 880-4824/	98 22/3-A 	ualifier	70 - 130 Spike Added 1000 1000 <u>Limits</u> 70 - 130	Result 1032	Qual	ifier Uni mg	t /Kg	<u>D</u>	%Rec 103 106	Prep Typ Prep E %Rec. Limits 70 - 130 70 - 130	e: To Batch RPD 13 10 thod	tal/N. : 472 RP Lim 2 2 2
De-Terphenyl Lab Sample ID: LCSD 880-472 Matrix: Solid Analysis Batch: 4728 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane De-Terphenyl lethod: 300.0 - Anions, Ic Lab Sample ID: MB 880-4824/ Matrix: Solid	98 22/3-A 	ualifier	70 - 130 Spike Added 1000 1000 <u>Limits</u> 70 - 130	Result 1032	Qual	ifier Uni mg	t /Kg	<u>D</u>	%Rec 103 106	Prep Typ Prep E %Rec. Limits 70 - 130 70 - 130	e: To Batch RPD 13 10 thod	tal/N. : 472 RP Lim 2 2 2
De-Terphenyl Lab Sample ID: LCSD 880-472 Matrix: Solid Analysis Batch: 4728 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane De-Terphenyl lethod: 300.0 - Anions, Ic Lab Sample ID: MB 880-4824/ Matrix: Solid	98 22/3-A 	ualifier graphy	70 - 130 Spike Added 1000 1000 <u>Limits</u> 70 - 130	Result 1032	Qual	ifier Uni mg	t /Kg	<u>D</u>	%Rec 103 106	Prep Typ Prep E %Rec. Limits 70 - 130 70 - 130	e: To Batch RPD 13 10 thod	tal/N/ : 472 RPI Lim 2 2 Blan
o-Terphenyl Lab Sample ID: LCSD 880-47 Matrix: Solid Analysis Batch: 4728 Analyte Gasoline Range Organics (GRO)-C6-C10	98 22/3-A 	ualifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130	Result 1032	Qual	ifier Uni mg mg	t /Kg	D	%Rec 103 106	Prep Typ Prep E %Rec. Limits 70 - 130 70 - 130	e: To Batch RPD 13 10 thod	tal/N/ : 472 RPI Lim 2 2 Blan

Eurofins Xenco, Carlsbad

07/01/21 17:07

Released to Imaging: 1/14/2022 1:37:10 PM

Chloride

5.00

mg/Kg

<5.00 U

1

QC Sample Results

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Job ID: 890-849-1 SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-4824/2-A Matrix: Solid Analysis Batch: 4825					Client	t Sample	ID: Lab Co Prep	ontrol S Type: S	
Analysis Daton. 4025	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	231.0		mg/Kg		92	90 - 110		
Lab Sample ID: LCSD 880-4824/3-A Matrix: Solid Analysis Batch: 4825		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	232.2		mg/Kg		93	90 - 110	1	20

Client: WSP USA Inc. Project/Site: Holly A Federal #006

Job ID: 890-849-1 SDG: Eddy County

GC VOA

Prep Batch: 4724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-849-1	BH04	Total/NA	Solid	5035	
MB 880-4724/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4724/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4724/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
nalysis Batch: 4740					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-849-1	BH04	Total/NA	Solid	8021B	4724
MB 880-4724/5-A	Method Blank	Total/NA	Solid	8021B	4724
LCS 880-4724/1-A	Lab Control Sample	Total/NA	Solid	8021B	4724
LCSD 880-4724/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4724
C Semi VOA					
rep Batch: 4722					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-849-1	BH04	Total/NA	Solid	8015NM Prep	
MB 880-4722/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4722/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

GC Semi VOA

Prep Batch: 4722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-849-1	BH04	Total/NA	Solid	8015NM Prep	
MB 880-4722/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4722/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4728

Lab Sample ID 890-849-1	Client Sample ID BH04	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 4722
MB 880-4722/1-A	Method Blank	Total/NA	Solid	8015B NM	4722
LCS 880-4722/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4722
LCSD 880-4722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4722

HPLC/IC

Leach Batch: 4824

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-849-1	BH04	Soluble	Solid	DI Leach	
MB 880-4824/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4824/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4824/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 4825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-849-1	BH04	Soluble	Solid	300.0	4824
MB 880-4824/1-A	Method Blank	Soluble	Solid	300.0	4824
LCS 880-4824/2-A	Lab Control Sample	Soluble	Solid	300.0	4824
LCSD 880-4824/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4824

Job ID: 890-849-1 SDG: Eddy County

Lab Sample ID: 890-849-1

Client: WSP USA Inc. Project/Site: Holly A Federal #006

Client Sample ID: BH04 Date Collected: 06/18/21 14:58 Date Received: 06/22/21 11:39

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	4724	06/29/21 14:37	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4740	06/29/21 22:54	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	4722	06/29/21 09:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4728	06/29/21 15:03	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	4824	07/01/21 12:13	СН	XEN MID
Soluble	Analysis	300.0		1			4825	07/01/21 20:12	СН	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

Matrix: Solid MID MID

9

10

Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Job ID: 890-849-1 SDG: Eddy County

Laboratory: Eurofins Xenco, Midland

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

thority	P	rogram	Identification Number	Expiration Date
as	N	IELAP	T104704400-20-21	06-30-22
the agency does not o			ied by the governing authority. This list ma	ay include analytes for
Analysis Method	Prep Method	Matrix	Analyte	
0,		Matrix Solid	Analyte Total TPH	

Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Job ID: 890-849-1 SDG: Eddy County

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
3015NM Prep	Microextraction	SW846	XEN MID
OI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Job ID: 890-849-1 SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-849-1	BH04	Solid	06/18/21 14:58	06/22/21 11:39	- 6	4
						5
						8
						9
						12
						13

seurofins 🔅		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) 382-7550, Carisbad, NM (575) 988-3199	Chain of Custody , TX (281) 240-4200, Dallas, TX (214) 9 X (432) 704-5440, San Antonio, TX (210) X (915) 585-3443, Lubbock, TX (806) 7 TX (915) 392-7550, Carlsbad, NM (575) 8	JY 4) 902-0300 210) 509-3334 06) 794-1296 75) 988-3199	Ę	Work Order No: <u>Bug</u>	Bug	-
								www.xenco.com	Page of	-
Project Manager:	JOSEPH H	HERNANDEZ	Bill to: (if different)	erent) Jm	N RATEN			Work Order Comments	comments	
Company Name:	5		Company Name				Program: UST/PST PRP Brownfields RRC		_	Superfund
Address:	3300 N A	A STREET	Address:		1_ 1	NSTA DR	State of Project:]		
City, State ZIP:	MIDLAND	Ì í	5 City, State ZIP:		CARLSBAD, NM 88120	88120	Reporting: Level III Level III Level III PST/UST TRRP			
	(281) 702-	23	Email:	. byc	wspicon-		Deliverables: EDD	ADaPT	Other:	
Name:	HOLLY A FE	HOLLY A FEDERAL #PODE	Turn Around			ANALYSIS REQ	REQUEST		Preservative Codes	les
Ъ.	51403360,001.0348	-	Routine Rush	Code					None: NO DI Wat	DI Water: H ₂ O
	EDDY WUNTY		Due Date: 30AY TAT	_	(D)	-	-	-	Cool: Cool MeOH: Me	Me
	AUTA BY		FAT starts the day receive	m	-					HN
		-	the lab, if received by 4:30pm	rs 15					H ₂ SO ₄ : H ₂ NaOH: Na	Na
SAMPLE RECEIPT	Temp Blank:	eg No	Wet Ice: Yes No	nete D¢	-				H₃PO₄: HP	
Samples Received Intact:	-	Thermometer	त्त	aran		BOD 849 Chain o	In the story		NaHSO4: NABIS	
Cooler Custody Seals:	Т.	V		Pa		Teoreno lo lubilo 640-060	Tonicial		Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:		N/A Temperature Reading:	ding: S-	LE					Zn Acetate+NaOH: Zn	
Total Containers:		Corrected Temperature:	nperature: S - O						NaUH+Ascoroic Acid: SAPC	
Sample Identification		Matrix Date Sampled	Time Depth G	Grab/ # of P	BTE				Sample Comments	nts
BHIRH		10/81/21 S	1458 6' 0	and 1 X X	×				Hord	
					┦					
								-+		
									/	
Total 200.7 / 6010	10 200.8 / 6020:		8RCRA 13PPM Texas 11	AI Sb As	Ba Be B Cd Ca	Cr Co Cu Fe Pb	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	d Metal(s) to be		P / SPL P /	ORCRA SU AS 1	ba be ud ur u	o Cu Pb Mn Mo	Ni Se Ag TI U		Hg: 1631 / 245.1 / 7470 / 7471	
Notice: Signature of this do of service. Eurofins Xenco	ocument and relinquis	shment of samples consti r the cost of samples and 1 will be applied to each 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 service. Eurofins Xenco, A minimum charare of \$50 null be another to not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. A minimum charare of \$50 null be another and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiations are assumed as the terms will be enforced unless previously negotiations.	 from client company to nsibility for any losses of reach sample submitted 	Eurofins Xenco, Its affi r expenses incurred by to Eurofins Xenco, but	liates and subcontractors. the client if such losses a t not analyzed. These term	intors. It assigns standard terms and conditions asses are due to circumstances beyond the control e terms will be enforced unless previously negotiated	rms and conditions ; beyond the control s previously negotlate	đ.	
Relinguished by: (Signature)	(Signature)	/ / Received	eceived by: (Signature)	Date/Time	ne Relin	Relinquished by: (Signature)	ure) Rece	Received by: (Signature)	ire) Date/Time	me
1 Autor B	2Mont	N. Car		6/22/21	11:39 2					
					4					
5					σ				Revised Date: 08/25/2020 Rev. 2020 2	9 Rev. 2020 2

7/2/2021

Chain of Custody

Received by OCD: 9/1/2021 7:57:16 AM

1089 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199 Client Information (Sub Contract Lab) Client Contact	Sampler Phone:	Chain of Custody Record	of Cus	Lab PM Krame E-Mail	/ Record	ŭ 🗹				Carrier Tracking No(s)	King Nc	(\$)			COC No: 890-271 1		America
Company Eurofins Xenco Address.	Due Date Requested	Ĕ			Accreditations Required (See not NELAP - Texas	ns Requin Texas	ed (See note)	(e							Job #: 890-849-1	9-1	í I
1211.W Florida Ave	6/25/2021	·					Ana	nalysis F	Requested	sted				L	Preservation Code	ation C	Cod
Giy Midland State Zip TX, 79701	TAT Requested (days)	iys)			<u> (6</u> Ditte									literaturi de la companya Literaturi de la companya de la comp		H Setate	DUOZE
Phone: 432-704-5440(Tel)	PO#:				1125									Sila.	G Amch	· j · ·	1
Email	WO #:				0)									3445.4DD		Ascorbic Acid ce DI Water	CIO
Project Name: Holly A Federal #006	Project #: 88000203				s or N	S_Pre	• ^							ainers	K EDTA L EDA	24	
Site	SSOW#:) (Yes	5NM_	- BIE							1. 1889A	Other [.]		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C≕comp, G≡grab)	Matrix (W=water S=solid, 0=waste/oil, BT=Tissue, A=Air	Field Filtered San Perform MS/MSD 300_ORGFM_28D/D	8015MOD_NM/8015	8021B/5035FP_Calc							Total Number of c		Special Instructions/Note	1 Ing
	X	X	Preservat	Preservation Code:	X	di radi Sancia			No des año			ett opt		X			¥.
ВН04 (890-849-1)	6/18/21	Mountain		Solid		×	×				<u> </u>						
									+		+	+					
Note: Since laboratory accreditations are subject to change. Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	places the ownership being analyzed the s rn the signed Chain	of method ana amples must b of Custody atte	alyte & accred e shipped bac sting to said c	itation complia < to the Eurofii omplicance to	ance upon ou ns Xenco LLo Eurofins Xer	t subcontra C laborator Ico LLC	act laborato y or other ir	ries. This Istructions	sample s will be p	hipment	is forw Any ch	anges t	nder cl o accri	1ain-o 9ditati	f-custody on status	If the li should t) labo
Possible Hazard Identification					Samp	le Dispo Return	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	e may i	Disp	assessed if san Disnosal By Lah	if sam	ples :		tainu	tained longe	er tha	an
Deliverable Requested I II III IV Other (specify)	Primary Deliverable Rank. 2	able Rank. 2	10		Speci	al Instruc	Special Instructions/QC Requirements	Require	ments.								
Empty Kit Relinquished by		Date			Time	\setminus				Metho	Method of Shipment:	pment					
Relinquished by Clar Cuffer lo:22:21	Date/Time: Date/Time:			Company Company	2 2	scory of by		M				pate/Time-	"FY	\mathbb{Z}	E.	908	1×
Relinquished by	Date/Time:			Company	Re	Received by						Date/Time:	œ.				
Custody Seals Intact ∆ Yes ∆ No					- 2	Cooler Temperature	erature(s) °C	C and Oth	and Other Remarks	rks.	ŀ						

12 13 14

14

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 849 List Number: 1 Creator: Olivas, Nathaniel

<6mm (1/4").

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

N/A

Eurofins Xenco, Carlsbad

Containers requiring zero headspace have no headspace or bubble is

Job Number: 890-849-1

SDG Number: Eddy County

List Source: Eurofins Xenco, Carlsbad

14

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-849-1 SDG Number: Eddy County

List Source: Eurofins Xenco, Midland

List Creation: 06/23/21 11:31 AM

Login Number: 849 List Number: 2 Creator: Copeland, Tatiana

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 9/1/2021 7:57:16 AM

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

🛟 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-850-1

Laboratory Sample Delivery Group: Eddy County Client Project/Site: Holly A Federal #006

For:

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

Attn: Joseph Hernandez

RAMER

Authorized for release by: 7/2/2021 9:33:23 AM

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

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

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

results through TOTOLACCESS Have a Question? Ask The Expert Visit us at: www.eurofinsus.com/Env Released to Imaging: 1/14/2022 1:37:10 PM

LINKS

Review your project

SDG: Eddy County

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LOQ

MCL

MDA

MDC

MDL

ML

MPN

MQL

NC ND

NEG

POS

PQL PRES

QC

RER

RL RPD

TEF

TEQ

TNTC

Limit of Quantitation (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Method Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

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

Minimum Detectable Activity (Radiochemistry)

	Definitions/Glossary	
Client: WSP US		5
-	Illy A Federal #006 SDG: Eddy County	Z
Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi VOA		
Qualifier	Qualifier Description	
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.	8
Glossary		Q
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	10
DL	Detection Limit (DoD/DOE)	13
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)	

Job ID: 890-850-1 SDG: Eddy County

Job ID: 890-850-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-850-1

Receipt

The sample was received on 6/22/2021 11:39 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: BH05 (890-850-1)

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Job ID: 890-850-1 SDG: Eddy County

Client Sample ID: BH05

Project/Site: Holly A Federal #006

Date Collected: 06/18/21 14:25 Date Received: 06/22/21 11:39

Sample Depth: - 6

Client: WSP USA Inc.

Lab Sample ID: 890-850-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/21 14:37	06/29/21 23:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/21 14:37	06/29/21 23:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/21 14:37	06/29/21 23:20	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/29/21 14:37	06/29/21 23:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/21 14:37	06/29/21 23:20	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/29/21 14:37	06/29/21 23:20	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		06/29/21 14:37	06/29/21 23:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				06/29/21 14:37	06/29/21 23:20	1
1,4-Difluorobenzene (Surr)	85		70 - 130				06/29/21 14:37	06/29/21 23:20	1
						_			
Method: 8015B NM - Diesel Rand	ne Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	RL	MDL	Unit mg/Kg	D	Prepared 06/29/21 09:38	Analyzed 06/29/21 15:24	Dil Fac
Analyte Gasoline Range Organics GRO)-C6-C10	Result	Qualifier U		MDL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8	Qualifier U	49.8	MDL	mg/Kg	D	06/29/21 09:38	06/29/21 15:24	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8	Qualifier U U	49.8	MDL	mg/Kg	<u> </u>	06/29/21 09:38	06/29/21 15:24	Dil Fac
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 <49.8	Qualifier U U U	49.8	MDL	mg/Kg mg/Kg	<u> </u>	06/29/21 09:38 06/29/21 09:38	06/29/21 15:24 06/29/21 15:24	Dil Fac 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.8 <49.8 <49.8	Qualifier U U U U	49.8 49.8 49.8	MDL	mg/Kg mg/Kg mg/Kg	<u> </u>	06/29/21 09:38 06/29/21 09:38 06/29/21 09:38	06/29/21 15:24 06/29/21 15:24 06/29/21 15:24	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result <49.8 <49.8 <49.8 <49.8	Qualifier U U U U	49.8 49.8 49.8 49.8 49.8	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	06/29/21 09:38 06/29/21 09:38 06/29/21 09:38 06/29/21 09:38	06/29/21 15:24 06/29/21 15:24 06/29/21 15:24 06/29/21 15:24	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result <49.8 <49.8 <49.8 <49.8 <49.8	Qualifier U U U U	49.8 49.8 49.8 49.8 49.8 Limits	MDL	mg/Kg mg/Kg mg/Kg	<u> </u>	06/29/21 09:38 06/29/21 09:38 06/29/21 09:38 06/29/21 09:38 Prepared	06/29/21 15:24 06/29/21 15:24 06/29/21 15:24 06/29/21 15:24 Analyzed	1 1 1 1 Dil Fac 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result <49.8 <49.8 <49.8 <49.8 <49.8 %Recovery 82 90	Qualifier U U U Qualifier	49.8 49.8 49.8 49.8 <u>49.8</u> <u>Limits</u> 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u> </u>	06/29/21 09:38 06/29/21 09:38 06/29/21 09:38 06/29/21 09:38 Prepared 06/29/21 09:38	06/29/21 15:24 06/29/21 15:24 06/29/21 15:24 06/29/21 15:24 <u>Analyzed</u> 06/29/21 15:24	1 1 1 1 Dil Fac 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro Analyte	Result <49.8	Qualifier U U U Qualifier	49.8 49.8 49.8 49.8 <u>49.8</u> <u>Limits</u> 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	06/29/21 09:38 06/29/21 09:38 06/29/21 09:38 06/29/21 09:38 Prepared 06/29/21 09:38	06/29/21 15:24 06/29/21 15:24 06/29/21 15:24 06/29/21 15:24 <u>Analyzed</u> 06/29/21 15:24	Dil Fac

Released to Imaging: 1/14/2022 1:37:10 PM

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Job ID: 890-850-1
SDG: Eddy County

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix:	So	lid

			/	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		E
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-850-1	BH05	88	85		
LCS 880-4724/1-A	Lab Control Sample	87	97		6
LCSD 880-4724/2-A	Lab Control Sample Dup	94	102		
MB 880-4724/5-A	Method Blank	60 S1-	82		
Surrogate Legend					0
BFB = 4-Bromofluorob	enzene (Surr)				0
DFBZ = 1,4-Difluorobe	nzene (Surr)				Q
Method: 8015B NM	I - Diesel Range Organics	s (DRO) (GC)		3
Matrix: Solid				Prep Type: Total/NA	
				Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1		
1					

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-850-1	BH05	82	90
LCS 880-4722/2-A	Lab Control Sample	97	98
LCSD 880-4722/3-A	Lab Control Sample Dup	112	107
MB 880-4722/1-A	Method Blank	90	101
Surrogate Legend			
1CO = 1-Chlorooctane			

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB	880-4724/5-A

Matrix: Solid Analysis Batch: 4740

Analysis Batch: 4740								Prep Bato	:h: 4724
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60	S1-	70 - 130				06/29/21 10:28	06/29/21 16:33	1
1,4-Difluorobenzene (Surr)	82		70 - 130				06/29/21 10:28	06/29/21 16:33	1

Lab Sample ID: LCS 880-4724/1-A Matrix: Solid Analysis Batch: 4740

Spike	LCS	LCS				%Rec.	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.08480		mg/Kg		85	70 - 130	
0.100	0.08425		mg/Kg		84	70 _ 130	
0.100	0.08202		mg/Kg		82	70 - 130	
0.200	0.1733		mg/Kg		87	70 _ 130	
0.100	0.08872		mg/Kg		89	70 _ 130	
	Added 0.100 0.100 0.100 0.100 0.200	Added Result 0.100 0.08480 0.100 0.08425 0.100 0.08202 0.200 0.1733	Added Result Qualifier 0.100 0.08480	Added Result Qualifier Unit 0.100 0.08480 mg/Kg 0.100 0.08425 mg/Kg 0.100 0.08202 mg/Kg 0.200 0.1733 mg/Kg	Added Result Qualifier Unit D 0.100 0.08480 mg/Kg 0.100 0.08425 mg/Kg 0.100 0.08202 mg/Kg 0.200 0.1733 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.08480 mg/Kg 85 0.100 0.08425 mg/Kg 84 0.100 0.08202 mg/Kg 82 0.200 0.1733 mg/Kg 87	Added Result Qualifier Unit D %Rec Limits 0.100 0.08480 mg/Kg 85 70 - 130 0.100 0.08425 mg/Kg 84 70 - 130 0.100 0.08202 mg/Kg 82 70 - 130 0.200 0.1733 mg/Kg 87 70 - 130

	LCS LCS	
Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	87	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: LCSD 880-4724/2-A Matrix: Solid

									i i cp
Analysis Batch: 4740									Pr
			Spike	LCSD	LCSD				%Rec.
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene			0.100	0.09235		mg/Kg		92	70 - 130
Toluene			0.100	0.1077		mg/Kg		108	70 - 130
Ethylbenzene			0.100	0.09178		mg/Kg		92	70 - 130
m-Xylene & p-Xylene			0.200	0.1939		mg/Kg		97	70 - 130
o-Xylene			0.100	0.09922		mg/Kg		99	70 - 130
	LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits						
			70 100						

Surrogate	%Recovery	Quaimer	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 4724

RPD

9

24

11

11

11

Prep Type: Total/NA	
Prep Batch: 4724	

RPD

Limit

35

35

35

35

35

Prep Type: Total/NA

Client Sample ID: Method Blank

Page 137 of 166

QC Sample Results

Client: WSP USA Inc. Project/Site: Holly A Federal #006

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

Lab Sample ID: MB 880-4722/1	- A											Client Sa	mple ID: N	/lethoo	l Blan
Matrix: Solid													Prep T	ype: To	otal/N/
Analysis Batch: 4728													Prep	Batcl	h: 472
	I	мвι	МВ												
Analyte	Res	sult (Qualifier		RL		MDL	Unit		D	P	repared	Analyze	∋d	Dil Fa
Gasoline Range Organics	<5	0.0	U		50.0			mg/Kg		_	06/2	9/21 09:38	06/29/21 1	2:16	
(GRO)-C6-C10															
Diesel Range Organics (Over	<5	0.0	U		50.0			mg/Kg			06/2	9/21 09:38	06/29/21 1	2:16	
C10-C28)															
Oll Range Organics (Over C28-C36)		0.0			50.0			mg/Kg				9/21 09:38	06/29/21 1		
Total TPH	<5	0.0	U		50.0			mg/Kg			06/2	9/21 09:38	06/29/21 1	2:16	
		мв	МВ												
Surrogate	%Recov		Qualifier	Lim	its						P	repared	Analyze	ed	Dil Fa
1-Chlorooctane		90			130							9/21 09:38	06/29/21 1		
o-Terphenyl	-	101			130							9/21 09:38	06/29/21 1		
_ab Sample ID: LCS 880-4722/	2-A									C	lient	Sample	ID: Lab Co	ntrol S	Sampl
Matrix: Solid													Prep T		
Analysis Batch: 4728														b Batcl	
				Spike		LCS	LCS						%Rec.		
Analyte				Added		Result	Qua	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000		902.5			mg/Kg		—	90	70 - 130		
GRO)-C6-C10									5 5						
Diesel Range Organics (Over				1000		955.9			mg/Kg			96	70 - 130		
C10-C28)															
	LCS I	201													
		Qualit	fior	Limits											
I-Chlorooctane		guain		70 - 130	-										
p-Terphenyl	98			70 - 130 70 - 130											
reipiienyi	50			10 - 100											
Lab Sample ID: LCSD 880-472	2/3-A								Cli	ent	Sam	ple ID: L	ab Control	Samp	ole Du
Matrix: Solid										••••			Prep T		
Analysis Batch: 4728														Batcl	
				Spike		LCSD	LCS	D					%Rec.		RP
Analyte				Added		Result			Unit		D	%Rec	Limits	RPD	Lim
Gasoline Range Organics				1000		1032			mg/Kg		_	103	70 - 130	13	2
GRO)-C6-C10															-
Diesel Range Organics (Over				1000		1062			mg/Kg			106	70 - 130	10	2
C10-C28)															
	LCSD I	000													
Surrogate		Qualit		Limits											
1-Chlorooctane		zuam		70 - 130	-										
p-Terphenyl	107			70 <u>-</u> 130 70 <u>-</u> 130											
- Terphenyi	107			10 - 130											
ethod: 300.0 - Anions, lo	n Chromato	gra	phy												
_ab Sample ID: MB 880-4824/1	-A											Client Sa	mple ID: N	lethor	l Blan
Matrix: Solid												5		Type: S	
Analysis Batch: 4825													Pieh	iype. c	Joiub
-mary 515 Daten. 4025		мв	MB												
Analyta							MDI	110:4		P	-	ronore d	A		DH F-
Analyte	Kes		Qualifier		RL		NDL	Unit		D	- 1	repared	Analyze	-u	Dil Fa

Job ID: 890-850-1 SDG: Eddy County

Eurofins Xenco, Carlsbad

07/01/21 17:07

Released to Imaging: 1/14/2022 1:37:10 PM

Chloride

5.00

mg/Kg

<5.00 U

1

QC Sample Results

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Job ID: 890-850-1 SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-4824/2-A Matrix: Solid Analysis Batch: 4825					Client	t Sample	ID: Lab Co Prep	ontrol S Type: S	
Analysis Daton. 4025	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	231.0		mg/Kg		92	90 - 110		
Lab Sample ID: LCSD 880-4824/3-A Matrix: Solid Analysis Batch: 4825				Clie	nt San	nple ID:	Lab Contro Prep	ol Sampl Type: S	
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	232.2		mg/Kg		93	90 - 110	1	20

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Job ID: 890-850-1 SDG: Eddy County

GC VOA

Prep Batch: 4724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-850-1	BH05	Total/NA	Solid	5035	
MB 880-4724/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4724/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4724/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
nalysis Batch: 4740					
nalysis Batch: 4740	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
nalysis Batch: 4740 Lab Sample ID		Prep Type Total/NA	Matrix Solid	<u>Method</u> 8021B	Prep Batch 4724
	Client Sample ID				
nalysis Batch: 4740 Lab Sample ID 890-850-1	Client Sample ID BH05	Total/NA	Solid	8021B	4724

GC Semi VOA

Prep Batch: 4722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-850-1	BH05	Total/NA	Solid	8015NM Prep	
MB 880-4722/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4722/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4728

Lab Sample ID 890-850-1	Client Sample ID BH05	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 4722
MB 880-4722/1-A	Method Blank	Total/NA	Solid	8015B NM	4722
LCS 880-4722/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4722
LCSD 880-4722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4722

HPLC/IC

Leach Batch: 4824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-850-1	BH05	Soluble	Solid	DI Leach	
MB 880-4824/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4824/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4824/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 4825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-850-1	BH05	Soluble	Solid	300.0	4824
MB 880-4824/1-A	Method Blank	Soluble	Solid	300.0	4824
LCS 880-4824/2-A	Lab Control Sample	Soluble	Solid	300.0	4824
LCSD 880-4824/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4824

Job ID: 890-850-1 SDG: Eddy County

Lab Sample ID: 890-850-1

Matrix: Solid

Client: WSP USA Inc. Project/Site: Holly A Federal #006

Client Sample ID: BH05 Date Collected: 06/18/21 14:25

Date Received: 06/22/21 11:39

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	4724	06/29/21 14:37	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4740	06/29/21 23:20	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	4722	06/29/21 09:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4728	06/29/21 15:24	AM	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	4824	07/01/21 12:13	СН	XEN MID
Soluble	Analysis	300.0		1			4825	07/01/21 20:18	СН	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

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Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Job ID: 890-850-1 SDG: Eddy County

Laboratory: Eurofins Xenco, Midland

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

thority	P	rogram	Identification Number	Expiration Date
as	N	IELAP	T104704400-20-21	06-30-22
the agency does not o			ied by the governing authority. This list ma	ly include analytes for
Analysis Method	Prep Method	Matrix	Analyte	
0,		Matrix Solid	Analyte Total TPH	

Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc. Project/Site: Holly A Federal #006

Job ID: 890-850-1 SDG: Eddy County

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
3015NM Prep	Microextraction	SW846	XEN MID
OI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

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	9
•	11
	13

Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Job ID: 890-850-1 SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth		
890-850-1	BH05	Solid	06/18/21 14:25	06/22/21 11:39	- 6	4	
						5	
						8	
						9	
						12	
						13	
Vacuo balas. Tri (214) 902-0000 Work Order No: 95° Vala, Lubouct, TX (219) 908-334 www.xenc.com Page 1 of 1 Vala, Lubouct, TX (219) 908-339 www.xenc.com Page 1 of 1 Vala, Lubouct, TX (219) 908-339 www.xenc.com Page 1 of 1 Vala, Lubouct, TX (219) 908-339 www.xenc.com Page 1 of 1 Vala, Lubouct, TX (219) 908-339 www.xenc.com Page 1 of 1 Vala, Lubouct, TX (219) 908-339 www.xenc.com Page 1 of 1 Vala, Lubouct, TX (219) 908-339 www.xenc.com Page 1 of 1 SGLAELAL-Y Page 1 Page 1 of 1 Vala Valae 7 Page 1 Page 1 of 1 SGLAELAL-Y Page 1 Page 1 Page 1 of 1 Valae 7 Page 1 Page 1 Page 1 Page 1 Page 1 Valae 7 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Valae 7 Page 1 Valae 7 Page 1	Revised Date 0825/2020 Rev 2020 2	6 A N	6/12/24 / 11.3	6	W. Con	aher	5 3 Annu
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o: 95 ∽ r_Comments wnfields □ RRC □ Superfund ST/UST □ TRRP □ Level IV PT □ Other: Preservative Codes None: NO DI Water: H ₂ Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NABIS Na ₂ S ₂ O ₃ : NABIS NaOH+Ascorbic Acid: SAPC Sample Comments HCU / The	lure)	Relinquished by: (Signature)	Date/Time	nature)	/Received by: (Sig	: (Signature)	Relinquished by
o: 95 r Comments wnfields □ RRC □ Superfund ST/UST □ TRRP □ Level IV PT □ Other: Preservative Codes None: NO DI Water: H ₂ Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC Sample Comments HTCL H	gns standard terms and conducts to circumstances beyond the control renforced unless previously negotiated.	nco, its affiliates and subcontractors. It assig incurred by the client if such losses are due to Xenco, but not analyzed. These terms will be	company to Eurofins Xe ny losses or expenses e submitted to Eurofins	d purchase order from client ssume any responsibility for a a charge of \$5 for each sampl	the cost of samples constitutes a vali the cost of samples and shall not as will be applied to each project and a	document and relinquis to will be liable only for imum charge of \$85.00	Notice: Signature of this c of service. Eurofins Xenc of Eurofins Xenco. A min
CUTOFINS Environment Testing Housen TX (2011) Muedia Law, 17, (2011) Muedia Law, 17, (2014) Sections More Additions More Addition	1/245.1/74/0	Cd Cr Co Cu Pb Mn Mo Ni Se	Sb As Ba Be C	SPLP 6010: 8RCRA	analyzed TCLP1:	nd Metal(s) to be	Circle Method(s) a
Housen's TCBS FARL HE 2-MANDE 2 Bits of datesses North Coll 12-4-40-000 Cale: 71 (2019 20-200 Cale: 7	K Se Ag SiO, Na Sr TI Sn U V	1 1	b As Ba Be B	PPM Texas 11 Al S	BRCRA		Total 200.7 / 60
CUTOTING Environment Testing Housing TX (24) 394-000 Montest TX (24) 394-000 Montest TX (24) 394-000 stranger Titss EAL HE ANALVE 2 Balts (7 (24) 744-01 340, 240) Balts (7 (24) 744-01 240)							
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Curofins Environment Testing Housen, 1X (241) 304-200, Dates, 1X (241) 902-200 Work Order No: 952 Interspect Corpspective Environment Testing Interspective Interspective <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
Curofins Environment Teding Housen 1X (241) 204-200. Dates 200. Dates							
Currofins Environment Testing Houton, 1X (241) 924-020, Dalas, 1X (241) 920-0200 Work Order No: 95° atManager TDS.ECH, HEL-MA/DE2 Bill by (1 atteen) Time Name WDV Sameau, 1X (241) 920-0200 Max, 1X (241)							
Curofins Environment Testing Houston, TX (201) 304-200, Dalas, TX (201) 900-3034 Work Order No: 95° ant/hanage: TDS E/H, HE L/M/L/DE2 Bills (Laffeent) TIm. E/H (201) 580-219 Work Order Commants ant/hanage: TDS E/H, HE L/M/L/DE2 Bills (Laffeent) TIm. E/H (201) 580-219 Work Order Commants ant/hanage: TDS E/H, HE L/M/L/DE2 Bills (Laffeent) TIm. E/H (201) 580-219 Work Order Commants ant/hanage: TDS E/H, HE L/M/L/DE2 Bills (Laffeent) TIm. E/H (201) 580-219 Work Order Commants ant/hanage: MIDL (ALD: 'TX: "401705.2 Cirk, Sale ZP: CARLEY Sale of Polectic Work Order Commants annumber: State of Polectic Commants in any research the any res							
Currofins Environment Testing Housen TX (2013) 304-200. Date: Dat							/
Environment Testing Houston, Tr (281) 240-200, Dalas, Tr (24) 902-2000 Work Order No: 95° Maiard Tr, (287) 705-2400, Bank Million (ridinerent stranger: TosserAH, HEENANDE2 Billion (ridinerent Sampler) Billion (ridinerent Sampler) Sampled	Crock		×	Gravo	6/8/21		BHES
Function Environment Testing Hoaton, 1X (281) 240-230, Dallas, 1X (241) 920-330 Work Order No: 95: Malaad, TX (281) 240-230, Dallas, TX (241) 920-330 EL Paso, TX (281) 240-230, Dallas, TX (241) 920-330 Work Order No: 95: Malaad, TX (281) 240-230, Dallas, TX (241) 920-330 EL Paso, TX (271) 920-334 EL Paso, TX (271) 920-334 Work Order No: 95: Malaad, TX (281) 240-230, Dallas, TX (271) 935-344, Lubeots, TX (980) 794-530 Simple Tableot, TX (270) 983-339 www.xeno.com Page 1 of 1 Malaad, TX (271) 935-344, Lubeots, TX (980) 794-530 Simple Tableot, TX (980) 794-530 Simple Tableot, TX (980) 794-530 www.xeno.com Page 1 of 1 Malaad, TX (271) 935-344, Lubeots, TX (980) 794-530 Simple Tableot, TX (980) 794-530 Work Order Comments www.xeno.com Page 1 of 1 Malaad, TX (271) 935-344, Lubeots, TX (980) 794-530 WDPX ELX-ECY Work Order Comments www.xeno.com Page 1 of 1 Sign of Project: Sign of Project: Sign of Project: None: NO UNART I	Sample Comments		TF	Depth Comp	Sampled		Sample ider
Curofins Environment Teating Housion, TX (281) 240-4200, Dallas, TX (241) 902-0000 Mork Order No: 95° any Name USS EXH. HER.VANDE2 Bill to (f afferen) Jim (21) 546-340, San Annon, TX (210) 508-334 E. Pao, TX (919) 586-343, Lubock, TX (909) 744-540, San Annon, TX (210) 508-334 Immediated TX (423) 704-540, San Annon, TX (210) 508-334 any Name USS EXH. HER.VANDE2 Bill to (f afferen) Jim (210) 508-343, Lubock, TX (909) 744-720 Immediated TX (423) 704-540, San Annon, TX (210) 508-334 Immediated TX (423) 704-540, San Annon, TX (210) 508-334 any Name USS EXH. HER.VANDE2 Bill to (ff afferen) Jim (210) 508-343, Lubock, TX (909) 744-720 Immediate TX (423) 704-540, San Annon, TX (210) 508-334 Immediate TX (423) 704-540, San Annon, TX (210) 508-334 any Name USS EXH. HER.VANDE2 Bill to (ff afferen) Jim Annon, TX (210) 508-334 Immediate TX (423) 704-540, San Annon, TX (210) 508-334 Immediate TX (423) 704-540, San Annon, TX (210) 508-334 Immediate TX (423) 704-540, San Annon, TX (210) 508-334 any Name USS EXALL MSD (Annon, TX (210) 400-34 Jim Annon, TX (210) 508-345 Immediate TX (424) 400-45 Immediate TX (PHEY	Grahl			
Curofins Environment Testing Housion 1X (281) 204-200. Dalls, 1X (249) 902-0000 Work Order No: 95° anvager ToSSE/H HELP-BIL X (251) 704-540, San Antone, 1X (210) 908-334 ELP-BIL X (210) 908-334 Imager Mork Order No: 95° anvager ToSSE/H HELP-ANDDE2 Bill to (#afferent) Tim ALCEY Imager Mork Order Comments ss: S36/g N A STREEET Address: S31/S ALLENA VSTR DZ State of Project: Imager Imag	NaOH+Ascorbic Acid: SAPC		(s	-		Total Containers:
Function Environment Testing Housing TX (24) 240-200 balas TX (24) 920-2000 Work Order No: 95* Miland, TX (22) 745-540, San Anonio, TX (21) 200-2000 Miland, TX (22) 745-540, San Anonio, TX (21) 595-334 EL Paso TX (31) 595-334 EL Paso TX (31) 595-334 stManager: TLOS EPH HEL-NANDE2 Bill to: (fi different) Tim, PALEY Program: USTPST PRP Program: USTPST PRP Brownfields RRC Superfund sam Viane: VSSP VSA Company Name: VSSP EAL Address S3415 GULE NA VISTA D2 State of Project: Reporting: Level III Level III PST/UST TRRP Level IV sate ZIP: MIDLAND: TX: 49170/S City, State ZIP: CARLSABAD, N/M &&Z2,24 State of Project: Reporting: Level II Level III PST/UST TRRP Level IV sate ZIP: MUDLAND: TX: ans its day received by 3000 City, State ZIP: CARLSBAD, N/M &&Z2,24 Deliverables: EDD ADPT Other: Level IV sate of Project: Tum Atound City, State ZIP: Tum Atound Con: Cool Mone: NO DI Wate: H saturation: EXXWDA AYE2.2 Trans its day received by 4 300m Coil Cool Mone: NO DI Wate: H Hers Name: AVE2.3 No The abult incervice by 4 300		890-850 Chain of Custody	EP	7	×	Yes	Cooler Custody Seal
Eurofins Environment Testing Housion, TX (281) 240-200, Dallas, TX (24) 980-330 Work Order No: 95° Midland, TX (422) 745440, San Anonio, TX (210) 990-334 EL Paso, TX (95) 985-343, Lubook, TX (90) 794-136 Work Order No: 95° any Name WSP, V.SA STREET Bill to: (I differen) TIM, PALEY Work Order No: 95° any Name WSP, V.SA STREET Address: S3315 SUVE AVISTA Pogram: USTPST PRP Brownfields RRC Superfund same HDJLV A REDEEA Email: Anna. by CS @. WSp. cerv S315 SUVE AVISTA Other: State of Project: state ZIP: HDJLV A REDEEA Email: Anna. by CS @. WSp. cerv Sale of Project: Reporting: Level III Level III Evel IV state of Project: Share of Project: Other: Other: Other: Other: state of Project: Share of Project: Other: Other: Other: Other: Other: state of Project: Share of Project: Other: Other: Other: Other: Other: Other: <td>Nahout Nahout</td> <td></td> <td>A</td> <td>1</td> <td>1</td> <td>(Yes)</td> <td>Samples Received In</td>	Nahout Nahout		A	1	1	(Yes)	Samples Received In
Curofins Environment Testing Houston, TX (281) 204-200, Dalas, TX (214) 902-0300 Work Order No: 95 Midland, TX (432) 704-540, San Antonio, TX (210) 505-5443, Lubbock, TX (200) 509-3334 EL Paso, TX (315) 555-5443, Lubbock, TX (305) 794-126 www.xenco.com Page of Manager: JCSSEPH, UFE-NANDE-2 Bill to: (If different) JTim, PALEY www.xenco.com Page of sam, Name: WSP, USA SSES SSLIS GALESAD, NM (575) 985-343, Lubbock, TX (305) 794-126 www.xenco.com Page of	H ₃ PO4: HP		84	(Yes No	Yes No	+	SAMPLE RECE
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		11-2 TX (214) 902-0300	- 0000 000 11801 1			fine	PHIM

Chain of Custody

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 850 List Number: 1 Creator: Olivas, Nathaniel

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

N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-850-1

SDG Number: Eddy County

List Source: Eurofins Xenco, Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 850 List Number: 2 Creator: Copeland, Tatiana

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-850-1 SDG Number: Eddy County

List Source: Eurofins Xenco, Midland List Creation: 06/23/21 11:29 AM Received by OCD: 9/1/2021 7:57:16 AM

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

🛟 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-851-1

Laboratory Sample Delivery Group: Eddy County Client Project/Site: Holly A Federal #006

For:

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

Attn: Joseph Hernandez

RAMER

Authorized for release by: 7/2/2021 9:34:28 AM

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

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

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

Visit us at: www.eurofinsus.com/Env

LINKS

Review your project results through

Total Access

Have a Question?

Ask-

Released to Imaging: 1/14/2022 1:37:10 PM

Laboratory Job ID: 890-851-1 SDG: Eddy County

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Method Summary	13
Sample Summary	14
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2

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-	Definitions/Olesson		
	Definitions/Glossary		
Client: WSP US		Job ID: 890-851-1	
Project/Site: Ho	Ily A Federal #006	SDG: Eddy County	
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		
S1-	Surrogate recovery exceeds control limits, low biased.		
U	Indicates the analyte was analyzed for but not detected.		5
GC Semi VOA			
Qualifier	Qualifier Description		
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.		8
Glossary			0
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		

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Method Quantitation Limit

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

ML

MPN

MQL

NC ND

NEG

POS

PQL

PRES QC

RER

RPD TEF

TEQ

TNTC

RL

Job ID: 890-851-1 SDG: Eddy County

Job ID: 890-851-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-851-1

Receipt

The sample was received on 6/22/2021 11:39 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: BH06 (890-851-1)

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

4

Job ID: 890-851-1 SDG: Eddy County

Client Sample ID: BH06

Project/Site: Holly A Federal #006

Date Collected: 06/18/21 14:30 Date Received: 06/22/21 11:39

Sample Depth: - 6

Client: WSP USA Inc.

Lab Sample ID: 890-851-1

Matrix: Solid

	3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/21 14:37	06/29/21 23:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/21 14:37	06/29/21 23:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/21 14:37	06/29/21 23:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/29/21 14:37	06/29/21 23:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/21 14:37	06/29/21 23:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/29/21 14:37	06/29/21 23:46	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		06/29/21 14:37	06/29/21 23:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				06/29/21 14:37	06/29/21 23:46	1
1,4-Difluorobenzene (Surr)	100		70 - 130				06/29/21 14:37	06/29/21 23:46	1
Method: 8015B NM - Diesel Rang Analyte		RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rand	ne Organics (D	RO) (GC)							
Analyte	Result	Qualifier		MDL		D	<u> </u>		
Analyte Gasoline Range Organics		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 06/29/21 09:38	Analyzed 06/29/21 15:45	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.7	Qualifier U	49.7	MDL	mg/Kg	<u>D</u>	06/29/21 09:38	06/29/21 15:45	1
Analyte Gasoline Range Organics	Result	Qualifier U		MDL		<u>D</u>	<u> </u>		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.7	Qualifier U U	49.7	MDL	mg/Kg	<u> </u>	06/29/21 09:38	06/29/21 15:45	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.7 <49.7	Qualifier U U U	49.7	MDL	mg/Kg mg/Kg	<u> </u>	06/29/21 09:38 06/29/21 09:38	06/29/21 15:45 06/29/21 15:45	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.7 <49.7 <49.7	Qualifier U U U U U	49.7 49.7 49.7	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	06/29/21 09:38 06/29/21 09:38 06/29/21 09:38	06/29/21 15:45 06/29/21 15:45 06/29/21 15:45	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.7 <49.7 <49.7 <49.7 <49.7	Qualifier U U U U U	49.7 49.7 49.7 49.7 49.7	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	06/29/21 09:38 06/29/21 09:38 06/29/21 09:38 06/29/21 09:38	06/29/21 15:45 06/29/21 15:45 06/29/21 15:45 06/29/21 15:45	1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result <49.7 <49.7 <49.7 <49.7 <49.7 <49.7	Qualifier U U U U U	49.7 49.7 49.7 49.7 49.7 Limits	MDL	mg/Kg mg/Kg mg/Kg	<u> </u>	06/29/21 09:38 06/29/21 09:38 06/29/21 09:38 06/29/21 09:38 Prepared	06/29/21 15:45 06/29/21 15:45 06/29/21 15:45 06/29/21 15:45 06/29/21 15:45 Analyzed	1 1 1 1 2 1 2 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result <49.7	Qualifier U U U Qualifier	49.7 49.7 49.7 49.7 <u>49.7</u> <u>Limits</u> 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u> </u>	06/29/21 09:38 06/29/21 09:38 06/29/21 09:38 06/29/21 09:38 Prepared 06/29/21 09:38	06/29/21 15:45 06/29/21 15:45 06/29/21 15:45 06/29/21 15:45 <u>Analyzed</u> 06/29/21 15:45	1 1 1 1 2 1 <i>Dil Fac</i> 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result <49.7	Qualifier U U U Qualifier	49.7 49.7 49.7 49.7 <u>49.7</u> <u>Limits</u> 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	06/29/21 09:38 06/29/21 09:38 06/29/21 09:38 06/29/21 09:38 Prepared 06/29/21 09:38	06/29/21 15:45 06/29/21 15:45 06/29/21 15:45 06/29/21 15:45 <u>Analyzed</u> 06/29/21 15:45	1

Project/Site: Holly A Federal #006

Job ID: 890-851-1 SDG: Eddy County

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix:	Solid
matrix.	oona

Client: WSP USA Inc.

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-851-1	BH06	97	100		1
LCS 880-4724/1-A	Lab Control Sample	87	97		
LCSD 880-4724/2-A	Lab Control Sample Dup	94	102		-
MB 880-4724/5-A	Method Blank	60 S1-	82		
Surrogate Legend BFB = 4-Bromofluorob	penzene (Surr)				
DFBZ = 1,4-Difluorobe					
lethod: 8015B NI	VI - Diesel Range Organics	s (DRO) (GC	;)		
latrix: Solid				Prep Type: Total/NA	
_				Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		

Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-851-1	BH06	106	112
LCS 880-4722/2-A	Lab Control Sample	97	98
LCSD 880-4722/3-A	Lab Control Sample Dup	112	107
MB 880-4722/1-A	Method Blank	90	101
Surrogate Legend			
$\frac{100}{100} = 1$ -Chlorooctane			

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB	880-4724/5-A

Matrix: Solid Analysis Batch: 4740

Analysis Batch: 4740								Prep Bate	:h: 4724
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/29/21 10:28	06/29/21 16:33	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60	S1-	70 - 130				06/29/21 10:28	06/29/21 16:33	1
1,4-Difluorobenzene (Surr)	82		70 - 130				06/29/21 10:28	06/29/21 16:33	1

Lab Sample ID: LCS 880-4724/1-A Matrix: Solid Analysis Batch: 4740

Spike	LCS	LCS				%Rec.	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.08480		mg/Kg		85	70 - 130	
0.100	0.08425		mg/Kg		84	70 _ 130	
0.100	0.08202		mg/Kg		82	70 - 130	
0.200	0.1733		mg/Kg		87	70 _ 130	
0.100	0.08872		mg/Kg		89	70 _ 130	
	Added 0.100 0.100 0.100 0.100 0.200	Added Result 0.100 0.08480 0.100 0.08425 0.100 0.08202 0.200 0.1733	Added Result Qualifier 0.100 0.08480	Added Result Qualifier Unit 0.100 0.08480 mg/Kg 0.100 0.08425 mg/Kg 0.100 0.08202 mg/Kg 0.200 0.1733 mg/Kg	Added Result Qualifier Unit D 0.100 0.08480 mg/Kg 0.100 0.08425 mg/Kg 0.100 0.08202 mg/Kg 0.200 0.1733 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.08480 mg/Kg 85 0.100 0.08425 mg/Kg 84 0.100 0.08202 mg/Kg 82 0.200 0.1733 mg/Kg 87	Added Result Qualifier Unit D %Rec Limits 0.100 0.08480 mg/Kg 85 70 - 130 0.100 0.08425 mg/Kg 84 70 - 130 0.100 0.08202 mg/Kg 82 70 - 130 0.200 0.1733 mg/Kg 87 70 - 130

	LCS LCS	
Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	87	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: LCSD 880-4724/2-A Matrix: Solid

Analysis Batch: 4740									Pre	p Batch	: 4724
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.09235		mg/Kg		92	70 - 130	9	35
Toluene			0.100	0.1077		mg/Kg		108	70 - 130	24	35
Ethylbenzene			0.100	0.09178		mg/Kg		92	70 - 130	11	35
m-Xylene & p-Xylene			0.200	0.1939		mg/Kg		97	70 - 130	11	35
o-Xylene			0.100	0.09922		mg/Kg		99	70 - 130	11	35
	LCSD	LCSD									
Surrogate	%Recoverv	Qualifier	Limits								

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Ba

Prep Type: Total/NA

atch: 4724	

Prep Type: Total/NA

Client Sample ID: Method Blank

QC Sample Results

Client: WSP USA Inc. Project/Site: Holly A Federal #006

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

Lab Sample ID: MB 880-4722/1	- A											Client Sa	mple ID: I	Method	l Blan
Matrix: Solid													Prep T	ype: To	otal/N/
Analysis Batch: 4728													Pre	p Batcl	h: 472
	I	ΜВ	мв												
Analyte	Res	sult	Qualifier		RL		MDL	Unit		D	P	repared	Analyz	ed	Dil Fa
Gasoline Range Organics	<5	0.0	U		50.0			mg/Kg		_	06/2	9/21 09:38	06/29/21	12:16	
GRO)-C6-C10															
Diesel Range Organics (Over	<5	0.0	U		50.0			mg/Kg			06/2	9/21 09:38	06/29/21 ^	12:16	
C10-C28)	_														
Oll Range Organics (Over C28-C36)		0.0			50.0			mg/Kg				9/21 09:38	06/29/21		
Fotal TPH	<5	0.0	U		50.0			mg/Kg			06/2	9/21 09:38	06/29/21	12:16	
		ΜВ	МВ												
Surrogate	%Recov	ery	Qualifier	Lim	its						P	repared	Analyz	ed	Dil Fa
1-Chlorooctane		90		70 -	130							9/21 09:38	06/29/21		
o-Terphenyl	-	101		70 -	130						06/2	9/21 09:38	06/29/21	12:16	
_ab Sample ID: LCS 880-4722/	2-A									С	lient	Sample	ID: Lab Co	ontrol S	Sampl
Matrix: Solid												-	Prep T		
Analysis Batch: 4728														p Batcl	
-				Spike		LCS	LCS						%Rec.		
Analyte				Added		Result	Qua	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000		902.5			mg/Kg		_	90	70 - 130		
GRO)-C6-C10															
Diesel Range Organics (Over				1000		955.9			mg/Kg			96	70 - 130		
C10-C28)															
	LCS I	LCS													
Surrogate		Quali	fier	Limits											
I-Chlorooctane	97			70 - 130	-										
p-Terphenyl	98			70 - 130											
_ab Sample ID: LCSD 880-472	2/3-A								Cli	ent	Sam	ple ID: L	ab Contro	I Samp	le Du
Matrix: Solid												·	Prep T		
Analysis Batch: 4728														p Batcl	
-				Spike		LCSD	LCS	D					%Rec.		RP
Analyte				Added		Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Lim
Gasoline Range Organics				1000		1032			mg/Kg		_	103	70 - 130	13	2
GRO)-C6-C10															
Diesel Range Organics (Over				1000		1062			mg/Kg			106	70 - 130	10	2
C10-C28)															
	LCSD I	LCSD)												
Surrogate		Quali		Limits											
1-Chlorooctane	112			70 - 130	-										
p-Terphenyl	107			70 - 130											
, ioipiioiigi				102100											
ethod: 300.0 - Anions, Io	n Chromato	gra	iphy												
_ab Sample ID: MB 880-4824/1	-A											Client Sa	Imple ID: I	Methor	l Blan
Matrix: Solid	7											Sherit Ge	-		
													Frep	Type: S	JOIUD
Analysis Batch: 4825		мв	MD												
Ameluda					.			11		~	-	namana d	A I.	لمم	D2 5
Analyte	Kes	suit	Qualifier		RL		NDL	Unit		D	- 1	repared	Analyz	ea	Dil Fa

Job ID: 890-851-1 SDG: Eddy County

Eurofins Xenco, Carlsbad

07/01/21 17:07

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Chloride

5.00

mg/Kg

<5.00 U

1

QC Sample Results

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Job ID: 890-851-1 SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-4824/2-AClient SampleMatrix: SolidAnalysis Batch: 4825								ontrol Sa Type: So	
Analysis Datch. 4025	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	231.0		mg/Kg		92	90 - 110		
Lab Sample ID: LCSD 880-4824/3-A Matrix: Solid Analysis Batch: 4825				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	232.2		mg/Kg		93	90 _ 110	1	20

Eurofins Xenco, Carlsbad

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Job ID: 890-851-1 SDG: Eddy County

GC VOA

Prep Batch: 4724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-851-1	BH06	Total/NA	Solid	5035	
MB 880-4724/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4724/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4724/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
nalysis Batch: 4740					
nalysis Batch: 4740	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
nalysis Batch: 4740 Lab Sample ID		Prep Type Total/NA	Matrix Solid	<u>Method</u> 8021B	Prep Batch 4724
	Client Sample ID				
nalysis Batch: 4740 Lab Sample ID 890-851-1	Client Sample ID BH06	Total/NA	Solid	8021B	4724

GC Semi VOA

Prep Batch: 4722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-851-1	BH06	Total/NA	Solid	8015NM Prep	
MB 880-4722/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4722/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-851-1	BH06	Total/NA	Solid	8015B NM	4722
MB 880-4722/1-A	Method Blank	Total/NA	Solid	8015B NM	4722
LCS 880-4722/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4722
LCSD 880-4722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4722

HPLC/IC

Leach Batch: 4824

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-851-1	BH06	Soluble	Solid	DI Leach	
MB 880-4824/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4824/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4824/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 4825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-851-1	BH06	Soluble	Solid	300.0	4824
MB 880-4824/1-A	Method Blank	Soluble	Solid	300.0	4824
LCS 880-4824/2-A	Lab Control Sample	Soluble	Solid	300.0	4824
LCSD 880-4824/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4824

Job ID: 890-851-1 SDG: Eddy County

Lab Sample ID: 890-851-1 Matrix: Solid

Date Collected: 06/18/21 14:30 Date Received: 06/22/21 11:39

Client Sample ID: BH06

Project/Site: Holly A Federal #006

Client: WSP USA Inc.

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	4724	06/29/21 14:37	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4740	06/29/21 23:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	4722	06/29/21 09:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4728	06/29/21 15:45	AM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	4824	07/01/21 12:13	СН	XEN MID
Soluble	Analysis	300.0		1			4825	07/01/21 20:24	СН	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

Released to Imaging: 1/14/2022 1:37:10 PM

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Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Job ID: 890-851-1 SDG: Eddy County

Laboratory: Eurofins Xenco, Midland

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

Authority		ogram	Identification Number	Expiration Date
xas	N	ELAP	T104704400-20-21	06-30-22
• ,		it the laboratory is not certil	fied by the governing authority. This list ma	ay include analytes for w
the agency does not of Analysis Method		Matrix	Analvte	
the agency does not of Analysis Method 8015B NM	fer certification . Prep Method 8015NM Prep	Matrix Solid	Analyte Total TPH	

Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Job ID: 890-851-1 SDG: Eddy County

lethod	Method Description	Protocol	Laboratory
021B	Volatile Organic Compounds (GC)	SW846	XEN MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
00.0	Anions, Ion Chromatography	MCAWW	XEN MID
035	Closed System Purge and Trap	SW846	XEN MID
015NM Prep	Microextraction	SW846	XEN MID
I 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

G: Eddy County

5
8
9
11
13

Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc. Project/Site: Holly A Federal #006 Job ID: 890-851-1 SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-851-1	BH06	Solid	06/18/21 14:30	06/22/21 11:39	- 6	4
						5
						8
						9
						12
						13

Revaed Date: 08/25/2020 Rev. 2020 2	6 4					σιω
	2	12/21 11:30	6/2	N. An	byers ,	1 anne
e) Received by: (Signature) Date/Time	Relinquished by: (Signature)	Date/Time	iture)	/ Received by: (Signature)	y: (Signature)	Relinquished by: (Signature)
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 cilent if such losses are due to circumstances beyond the control of service. Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	incurred by the client if such losses are Xenco, but not analyzed. These terms v	y losses or expenses submitted to Eurofins	rme any responsibility for a harge of \$5 for each sample	he cost of samples and shall not assume will be applied to each project and a c	nimum charge of \$85.00 v	of service. Eurofins Xer of Eurofins Xenco. A mi
Circle Method(s) and Metal(s) to be analyzed TCLP (SPLP 6016; BNCRA SD AS Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag II U rg. 1051 / 2701 / 171	TCLP/SPLP 6816. BRUKA SO AS BA BE CO Cr Co CU PD Min Mo N Hitters a valid nurzhase order from client company to Eurofins Xenco. Its affiliates and subcontractors. It	SD AS Ba Be (ULP GOTO: ORCINA	malyzed TCLP/SF	Circle Method(s) and Metal(s) to be analyzed	Circle Method(s) a
K Se	B Cd Ca Cr Co Cu Fe Pb N	Al Sb As Ba Be B	PM Texas 11 AI S	얡	010 200.8 / 6020:	Total 200.7 / 6010
			-			
House		×××	6 Bab 1	S 6/18/21 1430		BHIZE
Sample Comments		TP BTE Chi	Depth Grab/ # of Comp Cont	Matrix Date Time Sampled Sampled		Sample Identification
		*	5.0	Corrected Temperature:		Total Containers:
Zn Acetate+NaOH: Zn		E	213	N/A Temperature Reading:	Yes No	Sample Custody Seals:
		RA	-	NIA Correction Factor:	Yes No	Cooler Custody Seals:
of Custody	890-851 Chain of Cu	Bç	2	-		Samples Received Intact:
H₃PO4: HÞ		62	Yes No	nk: Yes No Wet Ice:	IPT Temp Blank:	SAMPLE RECEIPT
H ₂ S0 ₄ : H ₂ NaOH: Na		B	the lab, if received by 4:30pm			PO #:
HCL: HC HNO3; HN)	e day received by		AUNA RHERS	Sampler's Name:
Cool: Cool MeOH: Me			3 YAY TAT	Due Date:	EDDY COUNTY	Project Location:
None: NO DI Water: H ₂ O			Arush Code	Rou	31403360,001.0348	Project Number:
JEST Preservative Codes	ANALYSIS REQUEST		Turn Around		HOLLY A FEDERAL # YEL	Project Name:
Deliverables: EDDAUaP1Other:		3 @ wsp. com	anna. byers	702-2329 Email:	(26) 702	Phone:
	CALLSAD, UM 88220	CARLSBA	City, State ZIP:	TX TATES	WIDLAND,	City, State ZIP:
	BUENAVISTA DR	5315 Bu	Address:	A STREET	3377 2	Address:
Program: UST/PST PRP Brownfields RRC Superfund	ENERGY	WPX EN	Company Name:		WSP USA	Company Name:
Work Order Comments	RALEY	Jim RA	Bill to: (if different)	JOSEPH HERNANDEZ	JOSEPH H	Project Manager:
www.xenco.com Page of	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	575) 392-7550, Carlst	Hobbs, NM (t		2	
	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	(915) 585-3443, Lubb	EL Paso, TX	00	Xenco	
Work Order No: 851	Houston, I X (281) 240-4200, Dallas, I X (214) 902-0000 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	(281) 240-4200, Dai 32) 704-5440, San Ar	Midland, TX (4	Environment Testing		
					ofine	eurofine

7/2/2021

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eurofins

Chain of Custody

14

Job Number: 890-851-1 SDG Number: Eddy County

List Source: Eurofins Xenco, Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 851 List Number: 1 Creator: Olivas, Nathaniel

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	

N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Job Number: 890-851-1 SDG Number: Eddy County

List Source: Eurofins Xenco, Midland

List Creation: 06/23/21 11:28 AM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 851 List Number: 2 Creator: Copeland, Tatiana

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 9/1/2021 7:57:16 AM Form C-141 State of New Mexico

Remediation Plan Checklist: Each of the following items must be included in the plan.

Incident ID	nAPP2116548791
District RP	
Facility ID	
Application ID	

Remediation Plan

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points М Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. 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. Title: Environmental Professional Printed Name: Jim Raley fin Rily Date: 9/1/2021 Signature: Telephone: 575-689-7597 email: jim.raley.dvn.com **OCD Only** 1/14/2022 Robert Hamlet Date: Received by: Approved X Approved with Attached Conditions of Approval Denied Deferral Approved Robert Hamlet Date: 1/14/2022 Signature:

Page 5

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

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	45734
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Created By		Condition Date
rhamlet	The Workplan/Remediation Plan is approved with the following conditions: Please make sure the floor samples are delineated/excavated to meet closure criteria standards for proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release.	1/14/2022

CONDITIONS

Action 45734

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