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

Responsible Party

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NAPP2118039585
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID

Contact Name Contact T			Contact Te	Telephone		
Contact email			Incident #	# (assigned by OCD)		
Contact mailing address				П		
			Location	of R	delease So	Source
Latitude			(NAD 83 in de	ecimal de	Longitude _ grees to 5 decim	
Site Name					Site Type	
Date Release	Discovered				API# (if app	pplicable)
Unit Letter	Section	Township	Range		Coun	unty
Crude Oil		(s) Released (Select al Volume Release				Release ic justification for the volumes provided below) Volume Recovered (bbls)
Produced	Water	Volume Release	d (bbls)			Volume Recovered (bbls)
		Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?		lids (TDS)	☐ Yes ☐ No	
Condensa		Volume Released (bbls)			Volume Recovered (bbls)	
Natural G		Volume Released (Mcf)			Volume Recovered (Mcf)	
Other (describe) Volume/Weight Released (provide units))	Volume/Weight Recovered (provide units)		
Cause of Relo	ease					

Received by OCD: 9/23/2021 7:34:2454MI State of New Mexico Page 2 Oil Conservation Division

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Incident ID	NAPP2118039585
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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the response	ensible party consider this a major release?	
☐ Yes ☐ No			
If YES, was immediate no	otice given to the OCD? By whom? To w	hom? When and by what means (phone, email, etc)?	
Initial Response			
The responsible	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury	
☐ The source of the rela	ease has been stopped.		
☐ The impacted area ha	s been secured to protect human health and	the environment.	
Released materials ha	ave been contained via the use of berms or	dikes, absorbent pads, or other containment devices.	
All free liquids and re	ecoverable materials have been removed ar	nd managed appropriately.	
If all the actions described	d above have <u>not</u> been undertaken, explain	why:	
Per 19.15.29.8 B. (4) NM	IAC the responsible party may commence:	remediation immediately after discovery of a release. If remediation	
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:	R	Title:	
Signature:	rion Baks	Date:	
email:		Telephone:	
OCD Only			
Received by: Ramona	Marcus	Date: <u>7/6/2021</u>	

Location:	EMSU B 925 Injection Line		
Spill Date:	6/19/2021		
	Area 1		
Approximate A	rea =	5124.00	sq. ft.
Average Saturation (or depth) of spill = 0.50 in		inches	
Average Porosi	ty Factor =	0.20	
	VOLUME OF LEAK		
Total Crude Oil	=	0.00	bbls
Total Produced	Water =	13.60	bbls
	TOTAL VOLUME OF LEAK		
Total Crude Oil	=	0.00	bbls
Total Produced	Water =	13.60	bbls
TOTAL VOLUME RECOVERED			
Total Crude Oil	=	0.00	bbls
Total Produced	Water =	6.00	bbls

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

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

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

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

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

CONDITIONS

Action 34241

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	34241
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	7/6/2021

e of New Mexico

Incident ID NAPP2118039585

Incident ID	NAPP2118039585
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	< 50 (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)?				
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?				
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?				
Are the lateral extents of the release within a 100-year floodplain? ☐ Yes ☐				
Did the release impact areas not on an exploration, development, production, or storage site?				
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.				
Field data Data table of soil contaminant concentration data				
Depth to water determination				
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs				
Photographs including date and GIS information				
☐ Topographic/Aerial maps				

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.

Laboratory data including chain of custody

Received by OCD: 9/23/2021 7:34:24 AM Form C-141 State of New Mexico Oil Conservation Division Page 4

Received by:

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Incident ID	NAPP2118039585
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Application ID	

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: Toby Holland Title: Environmental Coordinator Date: 9-16-2021 email: holland@empirepetrocorp.com Telephone: (575) 704-2329 **OCD Only**

Date: _____

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Incident ID	NAPP2118039585
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Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following it	tems must be included in the closure report.							
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC							
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)								
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)							
Description of remediation activities								
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rendaman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the confaccordance with 19.15.29.13 NMAC including notification to the CPrinted Name:	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete. Title:							
Signature:	Date: 9-16-2021							
email: holland@empirepetrocorp.com	Telephone: (575) 704-2329							
OCD Only								
Received by: Chad Hensley	Date:10/13/2021							
remediate contamination that poses a threat to groundwater, surface very party of compliance with any other federal, state, or local laws and/o	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.							
Closure Approved by:	Date: 10/13/2021							
Printed Name: Chad Hensley	Title: Environmental Specialist Advanced							



WSP USA

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

September 16, 2021

District I New Mexico Oil Conservation Division 1625 N. French Drive Hobbs, New Mexico 88240

RE: Closure Request
EMSU B 925
Incident Number NAPP2118039585
Lea County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP), on behalf of Empire New Mexico, LLC (Empire), presents the following Closure Request detailing site assessment, soil sampling, and excavation activities at the EMSU B 925 (Site) in Unit L, Section 24, Township 20 South, Range 36 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil following a release of produced water at the Site. Based on the excavation activities and soil sample analytical results, Empire is submitting this Closure Request, describing remediation that has occurred and requesting no further action (NFA) for Incident Number NAPP2118039585.

RELEASE BACKGROUND

On June 19, 2021, pipeline deterioration caused the release of 13.60 barrels (bbls) of produced water into the surrounding pasture. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids, and approximately 6 bbls of produced water were recovered. XTO Energy, Inc. (XTO), the operator of the facility prior to Empire, submitted a Form C-141 on June 29, 2021 to the New Mexico Oil Conservation Division (NMOCD). The release was assigned Incident Number NAPP2118039585. Empire completed site assessment and remediation activities as the current operators of the facility.

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 less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well L 11184, located approximately 0.4 miles south of the Site. The groundwater well has a reported depth to groundwater of 32 feet bgs and a total depth of 50 feet bgs. All wells used for depth to



groundwater determination are depicted on Figure 1 and the associated well records are included in Attachment 1.

The closest continuously flowing water or significant watercourse to the Site is an intermittent stream, located approximately 4,500 feet northeast 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 (low 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): 100 mg/kg

Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On August 11, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected three preliminary assessment soil samples (SS01 through SS03) within the release extent, from a depth of approximately 0.5 feet bgs to assess the lateral extent of impacted soil. Soil from the preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positing System (GPS) and are presented on Figure 2. Photographic documentation was conducted during the Site visit. A photographic log is included in Attachment 2.

The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, and 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 Xenco Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.



Laboratory analytical results indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria in preliminary soil samples SS01 through SS03. However, additional delineation activities were scheduled to confirm the vertical extent of the release.

DELINEATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On August 24, 2021, WSP personnel were at the Site to oversee delineation activities as indicated by visual observations, field screening activities, and laboratory analytical results for the preliminary soil samples. Boreholes BH01 through BH06 were advanced via hand auger to a depth of 4 feet bgs within the release extent, to further assess the lateral and vertical extent of impacted soil. Delineation soil samples were collected from each borehole from depths ranging from 1 foot to 4 feet bgs. Soil from the boreholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for each borehole were logged on lithologic/soil sampling logs, which are included in Attachment 3. The borehole soil sample locations are presented on Figure 2. The delineation soil samples were collected, handled, and analyzed as described above at Eurofins in Carlsbad, New Mexico.

Laboratory analytical results indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria in the delineation soil samples collected from boreholes BH01 and BH03 through BH06. Laboratory analytical results indicated that TPH concentrations exceeded Closure Criteria in borehole delineation soil samples BH02 and BH02A, collected at 2 feet and 4 feet bgs. Based on the laboratory analytical results, excavation activities were scheduled to remove impacted soil from the area surrounding borehole BH02.

EXCAVATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On September 13, 2021, WSP personnel returned to the Site to oversee excavation of impacted soil around borehole BH02. Excavation activities were performed using track-mounted backhoe and transport vehicle. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to a depth of 4 feet bgs. Following removal of impacted soil, WSP collected 5-point composite soil samples at least every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Floor soil sample FS01 was collected from the floor of the excavation at a depth of 4 feet bgs. Sidewall soil samples SW01 through SW04 were collected from the sidewalls of the excavation at depths ranging from ground surface to 4 feet bgs. The excavation soil samples were collected, handled, and analyzed as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.



The final excavation extent measured approximately 50 square feet. A total of approximately 8 cubic yards of impacted soil were removed during excavation activities. The impacted soil was transported and properly disposed of at the Sundance Facility located in Eunice, New Mexico. After the completion of confirmation sampling, the excavation was secured with fencing.

Laboratory analytical results for excavation floor sample FS01 and excavation sidewall samples SW01 through SW04, collected from the final excavation extent, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Attachment 4.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the June 19, 2021 release of produced water. Based on the laboratory analytical results for delineation soil samples BH02 and BH02A, impacted soil was excavated. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the excavation soil sample analytical results, no further remediation was required.

Empire will backfill the excavation with material purchased locally and recontour the Site to match pre-existing conditions. Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. As such, Empire respectfully requests NFA for Incident Number NAPP2118039585.

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

Sincerely,

WSP USA Inc.

Tacoma Morrissey
Consultant, Geologist

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

ashley L. ager

cc: Toby Holland, Empire
Dale Cooper Family Trust

Mouissey



Attachments:

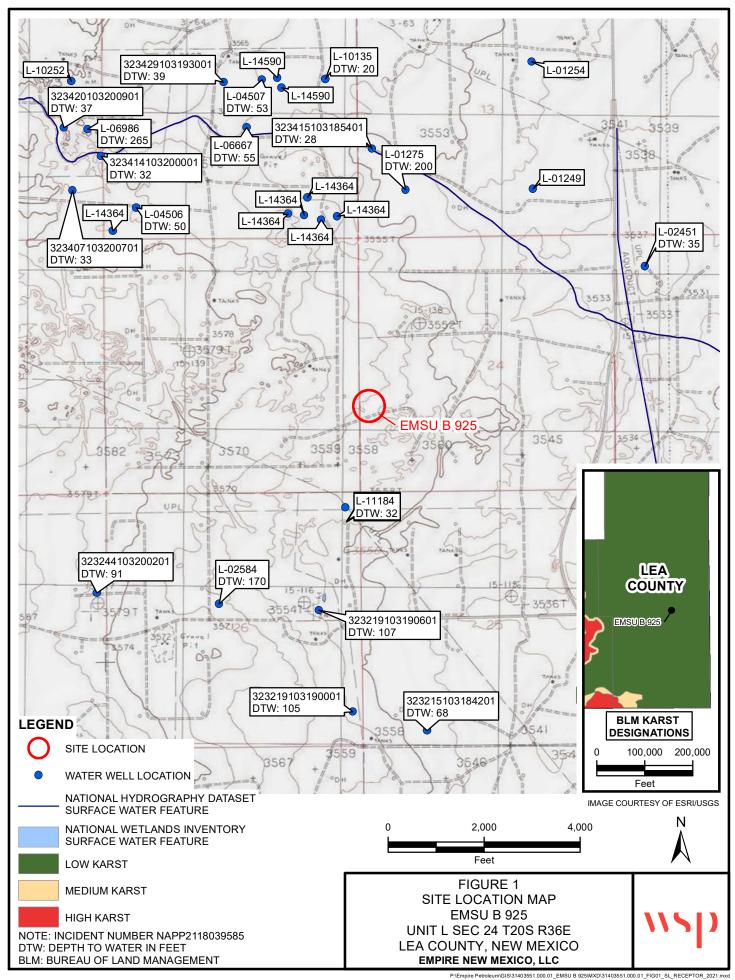
Figure 1 Site Location Map Figure 2 Soil Sample Locations

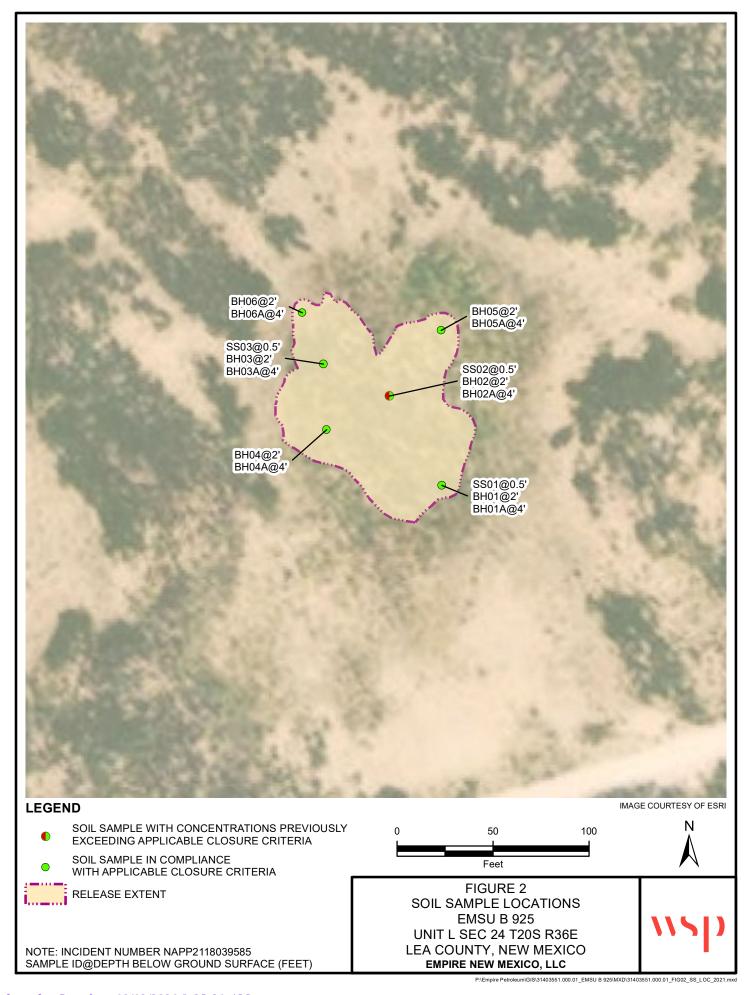
Figure 3 Excavation Soil Sample Locations

Table 1 Soil Analytical Results Attachment 1 Referenced Well Records

Attachment 2 Photographic Log

Attachment 3 Lithologic/ Soil Sampling Logs Attachment 4 Laboratory Analytical Reports





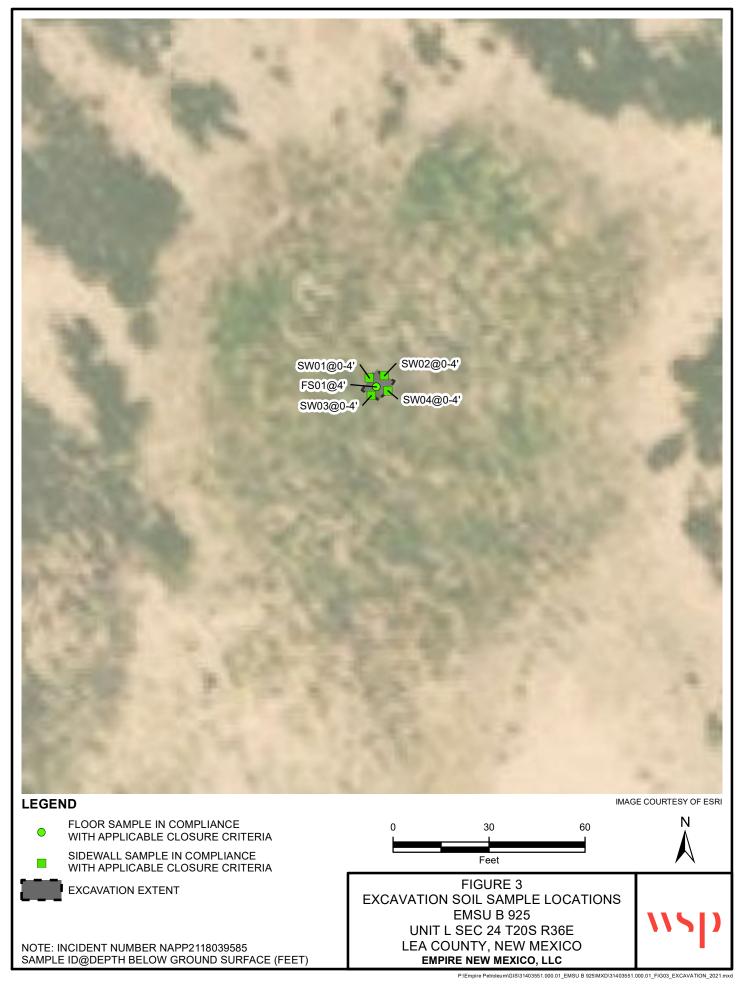


TABLE 1 SOIL ANALYTICAL RESULTS

EMSU B 925 INCIDENT NUMBER NAPP2118039585 LEA COUNTY, NEW MEXICO EMPIRE NEW MEXICO, LLC

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)		
NMOCD	Table 1 Closur	e Criteria	10	50	NE	NE	NE	NE	100	600		
Surface Samples												
SS01	0.5	08/11/2021	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	21.6		
SS02	0.5	08/11/2021	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	26.1		
SS03	0.5	08/11/2021	0.00506	0.00843	<49.9	<49.9	<49.9	<49.9	<49.9	37.1		
Delineation Sa	Delineation Samples											
BH01	2	08/24/2021	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	12.8		
BH01A	4	08/24/2021	< 0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	12.0		
BH02	2	08/24/2021	<0.00199	<0.00398	<49.8	349	<49.8	349	349	21.7		
BH02A	4	08/24/2021	< 0.00199	<0.00398	<50.0	462	<50.0	462	462	23.3		
BH03	2	08/24/2021	<0.00201	<0.00402	<49.8	88.6	<49.8	88.6	88.6	22.9		
BH03A	4	08/24/2021	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	24.4		
BH04	1	08/24/2021	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	62.2		
BH04A	4	08/24/2021	< 0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	24.8		
BH05	1	08/24/2021	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	22.3		
BH05A	4	08/24/2021	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	23.4		
BH06	1	08/24/2021	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	22.5		
BH06A	4	08/24/2021	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	23.8		

EMSU B 925- Soil Results 1 of 2

TABLE 1 SOIL ANALYTICAL RESULTS

EMSU B 925 INCIDENT NUMBER NAPP2118039585 LEA COUNTY, NEW MEXICO EMPIRE NEW MEXICO, LLC

l Depth I		Sample Date	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)	
NMOCD	Table 1 Closur	e Criteria	10	50	NE	NE	NE	NE	100	600	
Excavation Samples											
FS01	4	09/13/2021	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	17.3	
SW01	0-4	09/13/2021	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	14.5	
SW02	0-4	09/13/2021	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	11.2	
SW03	0-4	09/13/2021	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	16.4	
SW04	0-4	09/13/2021	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	16.8	

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

DRO - diesel range organics

GRO - gasoline range organics

mg/kg - milligrams per kilogram

Bold - indicates result exceeds the applicable regulatory standard

< - indicates result is below laboratory reporting limits

Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 August 2018

EMSU B 925- Soil Results 2 of 2

Revised June 1972

STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

501	\bigcirc	~(
401	4	\mathcal{L}	-

(A) Owner of	of wellJin	Cooper			Owner's V	Vell No
Street o	r Post Office Ad	idress P.	O. Box 55		Owner's V	
City and	State	Mo	nument, NM	88265		
				and is located		
				•		36E
	a County.		N.C. % Of Section_	lownship _	20S Range	
				of the		
c, Lot l	No	of Block No		_ of the		
Subd	ivision, recorde	d in		County.		
d. X= _		_ fcet, Y=		feet, N.M. Coordinate	System	
(B) Drilling	Contractor	Alan Eade	es		License No. WD	1044
1	200 E. Be	nder Blvd	d. Hobbs	NM 88240		
				· · · · · · · · · · · · · · · · · · ·		
Drilling Began	4-16-01	Comp	leted $\frac{4-16-0}{}$	Type tools	rotary	Size of hole8
Elevation of la	ind surface or _			at well is	ft. Total depth of v	well 50
Completed we	ll is 🕮 si	hallow 🗀 ar	tesian.	Depth to wate	r upon completion of	well
		Sect	ion 2. PRINCIPAL	WATER-BEARING S	ΓRATA	
Depth From	in Feet	Thickness in Feet	Descript	ion of Water-Bearing I	Formation	Estimated Yie (gallons per mis
	То					bet min
13	32	19	Sand & Gi	ravel		
		[
	<u> </u>			· · · · · · · · · · · · · · · · · · ·		
	<u>* </u>		Section 3 PF	CORD OF CASING		
Diameter	Pounds	Threads	Depth in Feet	Length		Perforat
(inches)	per foot	per in.	Top Bot	tom (feet)	Type of Shoe	From
6	160psi			50		30
	10002			30		
		<u> </u>				
		Sectio	n 4. RECORD OF !	MUDDING AND CEM	ENTING	
	in Feet	Hole	Sacks	Cubic Feet	Method of	f Placement
From	То	Diameter	of Mud	of Cement		
						17
<u> </u>						···
			Section 5. PLU	JGGING RECORD		
Plugging Contr	actor		Section 5. PLU			
Address					Depth in Feet	
Address Plugging Metho	od					Cubitom of Co
Address Plugging Metho	od					
Address Plugging Metho Date Well Plug	od			No. 1 2 3		
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Address Plugging Metho Date Well Plug Plugging appro	od gedved by:	State Engin	eer Representative	No. 1 2 3	Тор Во	ttom of Co
Address Plugging Metho Date Well Plug Plugging appro	od	State Engin	eer Representative	No. 1 2 3 4 TE ENGINEER ONL	Тор Во Y #;	208617
Address Plugging Metho Date Well Plug Plugging appro	od gedved by:	State Engin	eer Representative	No. 1 2 3 4 TE ENGINEER ONL	Тор Во	208617 FSL_

OCD ⁰ 9/23/20	21 7:34:24 A	₁ 1	Top Soil Page 22 of 119
1	10	9	Caliche
10	13	3	Sandy Clay
13	32	19	Sand & Gravel
32	50	18	Red Clay
-			
		· · · · · · · · · · · · · · · · · · ·	
			7. REMARKS AND ADDITIONAL INFORMATION
	10	1 10 10 13 13 32	10 13 3 13 32 19 32 50 18

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.



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USGS Water Resources

Data Category:		Geographic Area:			
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- Full News

USGS 323219103190601 20S.36E.26.24344

Available data for this site SUMMARY OF ALL AVAILABLE DATA ✔ GO

Well Site

DESCRIPTION:

Latitude 32°32'40", Longitude 103°19'08" NAD27 Lea County, New Mexico , Hydrologic Unit 13070007

Well depth: 265 feet

Land surface altitude: 3,555.00 feet above NGVD29.

Well completed in "Other aquifers" (N9999OTHER) national aquifer.

Well completed in "Chinle Formation" (231CHNL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count		
Field groundwater-level measurements	1961-03-02	1996-02-07	9		
Revisions	Unavailable (site:0) (timeseries:0)				

OPERATION:

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

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
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<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u>

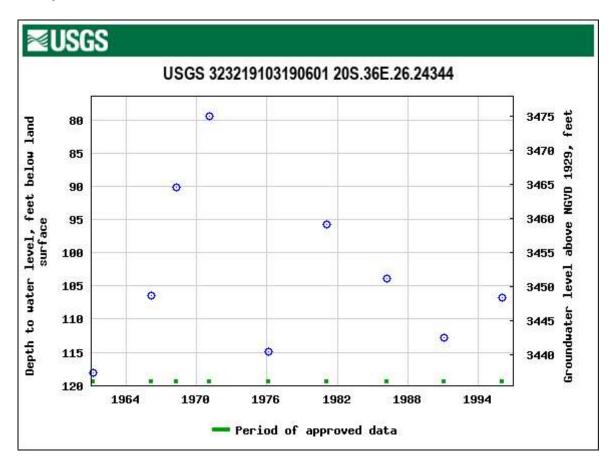
Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=323219103190601

Page Contact Information: New Mexico Water Data Support Team

Page Last Modified: 2021-07-19 10:18:28 EDT

0.28 0.26 caww01







PHOTOGRAPHIC LOG								
Empire New Mexico,	Empire New Mexico, EMSU B 925							
LLC	Lea County, New Mexico							

Photo No.	Date							
1	August 13, 2021							
	View of the release extent facing north.							



Photo No.	Date					
2	September 13,					
2	2021					
View of final excavation extent.						



					WS 08 West Isbad, Ne				BH or PH Name: Date: BH01 8/24/2021 Site Name: EMSU B 925 RP or Incident Number: NAPP2118039585 WSP Job Number: 31403551.000 Task 01.02			
				SIC / SOIL	SAMPL	ING LO	G		Logged By		Method: Hand Auger	
Lat/Lo	ng: 32.556	S24, - 103	.31587		Field Scre	_			Hole Diameter:		Total Depth:	
Comn	nente:				Chloride,	PID			2"		4'	
Comm	ients.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks				
D	<151.2	0.4	Z	BH01	2	0 1 - 2 - 3 -	SM	sandy, b	rown, well graded	l, no stainiı	ng or odor	
D	<151.2	0.1	N	BH01A	4	4		sandy, brown, well graded, no staining or odor				

\	\\')	Car	08 West sl Isbad, Ne	w Mexico	88220		BH or PH Name: Date: BH02 8/24/2021 Site Name: EMSU B 925 RP or Incident Number: NAPP2118039585 WSP Job Number: 31403551.000 Task 01.02					
Lat/Lo	ng: 32.556			SIC / SOIL	Field Scre		G		Logged By Hole Diameter:		Method: Hand Auger Total Depth:			
20.0/20	g. 0000	,_ ,,	.0.00.		Chloride,	_			2"		4'			
Comn	Comments:													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology/Remarks					
D	<151.2	0.2	N	BH02	2 _	1 2	SM	sandy, b	rown, well graded	, no staini	ng or odor			
D	<151.2	1.3	Z	BH02A	4	4	SM	sandy, brown, well graded, no staining or odor						

	ong: 32.556	LITH	OLOG	Car SIC / SOIL	508 West Sidsbad, Ne	w Mexico	88220		BH or PH Name: BH03 Site Name: EMSU B 9 RP or Incident Number WSP Job Number: 31 Logged By Hole Diameter:	925 er: NAPP21 1403551.000	Task 01.02 Method: Hand Auger Total Depth:			
Comn	Chloride, PID 2" 4' Comments:													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology/Remarks					
D	<151.2		N	BH03A	2	0 1 2 3			rown, well graded,					
D	<151.2	0.4	N	BH03A	4 _	4	SM	sandy, brown, well graded, no staining or odor						

									BH or PH Name:		Date:		
	11				WS	SP USA			BH04		8/24/2021		
				5	08 West	Stevens S	Street		Site Name: EMSU B 925				
				Car	Isbad, Ne	w Mexico	RP or Incident Number: NAPP2118039585						
		_					WSP Job Number: 31403551.000 Task 01.02						
		LITH	OLOG	SIC / SOIL	SAMPL	ING LO	Logged By		Method: Hand Auger				
Lat/Lo	ng: 32.556	624, -103	.31587		Field Scre	ening:			Hole Diameter:		Total Depth:		
					Chloride,	PID			2"		4'		
Comn	Comments:												
Moisture Content	Content Chloride (ppm) Vapor (ppm) Staining Sample # Chloride (ppm) Staining Sample (ft pds) USCS/Rock Symbol								Lithology/Remarks				
D	<151.2	0.1	Z	BH04	1	0 1 2 2 3	SM	sandy, brown, well graded, no staining or odor					
D	<151.2	0.0	N	BH04A	4	4	SM	sandy, brown, well graded, no staining or odor					

	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	LITH	OLOG	Car SIC / SOIL	08 West Slsbad, Ne	W Mexico	88220	WSP Job Number: 3 Logged By	Der: NAPP2118039585 81403551.000 Task 01.02 Method: Hand Auger			
LavL	ong: 32.556	, - 1U3.	.01007		Field Scre Chloride,			Hole Diameter: 2"	Total Depth: 4'			
Comn	Comments:											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol	L	.ithology/Remarks			
D	<151.2	0.6	Z	BH05	1 1 -	0 1	SM	sandy, brown, well graded, no staining or odor				
D	<151.2	0.0	Z	BH05A	4	3 4	SM	sandy, brown, well graded	d, no staining or odor			

	\\'				WS 508 West S Isbad, Ne	BH or PH Name: BH06 Site Name: EMSU B 9 RP or Incident Numbe WSP Job Number: 314 Logged By	025 or: NAPP211 403551.000						
	ong: 32.556				Field Scre	Hole Diameter: 2"	-	Total Depth: 4'					
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol		Lit	:hology/Re	emarks		
D	<151.2	0.1	Z	ВН06	1 - 1 -	1 2	SM	sandy, brown, well graded, no staining or odor					
D	<151.2	0.0	N	вно6А	4 _	3 4	SM	sandy, b	rown, well graded,	no stainin	ng or odor		



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1097-1

Laboratory Sample Delivery Group: Lea County

Client Project/Site: EMSU B 925

For:

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

Attn: Tacoma Morrissey

JURAMER

Authorized for release by: 8/18/2021 3:34:49 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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Released to Imaging: 10/13/2021 8:25:21 AM

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

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

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Client: WSP USA Inc.

Project/Site: EMSU B 925

Laboratory Job ID: 890-1097-1

SDG: Lea County

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1097-1 Project/Site: EMSU B 925 SDG: Lea County

Qualifiers

GC VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. F2 MS/MSD RPD exceeds control limits

S1+ Surrogate recovery exceeds control limits, high biased.

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

U

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc. Job ID: 890-1097-1 Project/Site: EMSU B 925 SDG: Lea County

Job ID: 890-1097-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1097-1

Receipt

The samples were received on 8/12/2021 9:21 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 4.0°C

GC VOA

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

GC Semi VOA

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

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

Client: WSP USA Inc. Job ID: 890-1097-1 Project/Site: EMSU B 925 SDG: Lea County

Client Sample ID: SS01 Lab Sample ID: 890-1097-1

Date Collected: 08/11/21 12:25 Matrix: Solid Date Received: 08/12/21 09:21

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F2 F1	0.00198	mg/Kg		08/14/21 10:45	08/15/21 05:11	1
Toluene	<0.00198	U F2 F1	0.00198	mg/Kg		08/14/21 10:45	08/15/21 05:11	1
Ethylbenzene	<0.00198	U F1	0.00198	mg/Kg		08/14/21 10:45	08/15/21 05:11	1
m-Xylene & p-Xylene	<0.00397	U F2 F1	0.00397	mg/Kg		08/14/21 10:45	08/15/21 05:11	1
o-Xylene	<0.00198	U F2 F1	0.00198	mg/Kg		08/14/21 10:45	08/15/21 05:11	1
Xylenes, Total	< 0.00397	U F2 F1	0.00397	mg/Kg		08/14/21 10:45	08/15/21 05:11	1
Total BTEX	<0.00397	U F2 F1	0.00397	mg/Kg		08/14/21 10:45	08/15/21 05:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130			08/14/21 10:45	08/15/21 05:11	1
1,4-Difluorobenzene (Surr)	90		70 - 130			08/14/21 10:45	08/15/21 05:11	1
Method: 8015B NM - Diesel Ranç Analyte		RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
. ' 	na Ormanica (Di	BO) (CC)						
Analyte	Result	Qualifier			<u>D</u>	<u>·</u>	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 08/16/21 08:50	Analyzed 08/16/21 18:09	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	08/16/21 08:50	08/16/21 18:09	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>	<u>·</u>		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	08/16/21 08:50	08/16/21 18:09	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	08/16/21 08:50 08/16/21 08:50	08/16/21 18:09 08/16/21 18:09	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/16/21 08:50 08/16/21 08:50 08/16/21 08:50	08/16/21 18:09 08/16/21 18:09 08/16/21 18:09	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 08/16/21 08:50	08/16/21 18:09 08/16/21 18:09 08/16/21 18:09 08/16/21 18:09	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49	Qualifier U U U U	49.9 49.9 49.9 49.9 Limits	mg/Kg mg/Kg mg/Kg	<u> </u>	08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 Prepared	08/16/21 18:09 08/16/21 18:09 08/16/21 18:09 08/16/21 18:09 Analyzed	1 1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 Prepared 08/16/21 08:50	08/16/21 18:09 08/16/21 18:09 08/16/21 18:09 08/16/21 18:09 Analyzed 08/16/21 18:09	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	D_	08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 Prepared 08/16/21 08:50	08/16/21 18:09 08/16/21 18:09 08/16/21 18:09 08/16/21 18:09 Analyzed 08/16/21 18:09	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: SS02 Lab Sample ID: 890-1097-2

Date Collected: 08/11/21 12:27 Date Received: 08/12/21 09:21

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/14/21 10:45	08/15/21 05:31	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/14/21 10:45	08/15/21 05:31	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/14/21 10:45	08/15/21 05:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/14/21 10:45	08/15/21 05:31	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/14/21 10:45	08/15/21 05:31	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/14/21 10:45	08/15/21 05:31	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/14/21 10:45	08/15/21 05:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			08/14/21 10:45	08/15/21 05:31	1
1,4-Difluorobenzene (Surr)	106		70 - 130			08/14/21 10:45	08/15/21 05:31	1

Eurofins Xenco, Carlsbad

Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1097-1 Project/Site: EMSU B 925 SDG: Lea County

Client Sample ID: SS02

Lab Sample ID: 890-1097-2 Date Collected: 08/11/21 12:27

Matrix: Solid Date Received: 08/12/21 09:21

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/16/21 08:50	08/16/21 18:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/16/21 08:50	08/16/21 18:31	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/16/21 08:50	08/16/21 18:31	1
Total TPH	<49.8	U	49.8	mg/Kg		08/16/21 08:50	08/16/21 18:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			08/16/21 08:50	08/16/21 18:31	1
o-Terphenyl	94		70 - 130			08/16/21 08:50	08/16/21 18:31	1
Method: 300.0 - Anions, Ion Chro	matography - 3	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-1097-3 **Client Sample ID: SS03**

Date Collected: 08/11/21 12:30 Matrix: Solid

Date Received: 08/12/21 09:21

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00506		0.00198	mg/Kg		08/14/21 10:45	08/15/21 05:52	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/14/21 10:45	08/15/21 05:52	1
Ethylbenzene	0.00337		0.00198	mg/Kg		08/14/21 10:45	08/15/21 05:52	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/14/21 10:45	08/15/21 05:52	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/14/21 10:45	08/15/21 05:52	1
Xylenes, Total	< 0.00396	U	0.00396	mg/Kg		08/14/21 10:45	08/15/21 05:52	1
Total BTEX	0.00843		0.00396	mg/Kg		08/14/21 10:45	08/15/21 05:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130			08/14/21 10:45	08/15/21 05:52	1
1,4-Difluorobenzene (Surr)	107		70 - 130			08/14/21 10:45	08/15/21 05:52	1
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
: Method: 8015B NM - Diesel Rang	ge Organics (DI	RO) (GC)						
Analyte Gasoline Range Organics	•	Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 08/16/21 08:50	Analyzed 08/16/21 18:52	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier U	49.9	mg/Kg	<u>D</u>	08/16/21 08:50	08/16/21 18:52	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			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)		Qualifier U	49.9	mg/Kg	<u> </u>	08/16/21 08:50	08/16/21 18:52	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U U U	49.9	mg/Kg	<u>D</u>	08/16/21 08:50 08/16/21 08:50	08/16/21 18:52 08/16/21 18:52	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/16/21 08:50 08/16/21 08:50 08/16/21 08:50	08/16/21 18:52 08/16/21 18:52 08/16/21 18:52	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 08/16/21 08:50	08/16/21 18:52 08/16/21 18:52 08/16/21 18:52 08/16/21 18:52	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U U U U	49.9 49.9 49.9 49.9 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 Prepared	08/16/21 18:52 08/16/21 18:52 08/16/21 18:52 08/16/21 18:52 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 Prepared 08/16/21 08:50	08/16/21 18:52 08/16/21 18:52 08/16/21 18:52 08/16/21 18:52 Analyzed 08/16/21 18:52	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 Prepared 08/16/21 08:50	08/16/21 18:52 08/16/21 18:52 08/16/21 18:52 08/16/21 18:52 Analyzed 08/16/21 18:52	Dil Fac

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1097-1 Project/Site: EMSU B 925 SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		DED4	DED74	Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-1097-1	SS01	144 S1+	90	
890-1097-1 MS	SS01	108	106	
890-1097-1 MSD	SS01	134 S1+	99	
390-1097-2	SS02	114	106	
390-1097-3	SS03	146 S1+	107	
CS 880-6528/1-A	Lab Control Sample	101	97	
CSD 880-6528/2-A	Lab Control Sample Dup	106	98	
MB 880-6498/5-A	Method Blank	123	107	
MB 880-6528/5-A	Method Blank	127	101	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1097-1	SS01	91	97	
890-1097-2	SS02	88	94	
890-1097-3	SS03	104	109	
890-1100-A-81-H MS	Matrix Spike	92	87	
890-1100-A-81-I MSD	Matrix Spike Duplicate	91	88	
LCS 880-6589/2-A	Lab Control Sample	97	97	
LCSD 880-6589/3-A	Lab Control Sample Dup	98	99	
MB 880-6589/1-A	Method Blank	107	118	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-1097-1 Project/Site: EMSU B 925

SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6498/5-A

Matrix: Solid

Analysis Batch: 6512

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6498

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/13/21 09:35	08/14/21 17:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/13/21 09:35	08/14/21 17:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/13/21 09:35	08/14/21 17:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/13/21 09:35	08/14/21 17:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/13/21 09:35	08/14/21 17:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/13/21 09:35	08/14/21 17:08	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/13/21 09:35	08/14/21 17:08	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	08/13/21 09:35	08/14/21 17:08	1
1,4-Difluorobenzene (Surr)	107		70 - 130	08/13/21 09:35	08/14/21 17:08	1

Lab Sample ID: MB 880-6528/5-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 6512

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/14/21 10:45	08/15/21 04:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/14/21 10:45	08/15/21 04:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/14/21 10:45	08/15/21 04:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/14/21 10:45	08/15/21 04:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/14/21 10:45	08/15/21 04:42	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/14/21 10:45	08/15/21 04:42	1
Total BTEX	<0.00400	U	0.00400	ma/Ka		08/14/21 10:45	08/15/21 04:42	1

мв мв

Surrogate	%Recovery	Qualifier Lim	ts I	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127	70 -	130 08/	14/21 10:45	08/15/21 04:42	1
1,4-Difluorobenzene (Surr)	101	70 -	130 08/	/14/21 10:45 C	08/15/21 04:42	1

Lab Sample ID: LCS 880-6528/1-A

Matrix: Solid

Analysis Batch: 6512

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6528

Prep Batch: 6528

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08320		mg/Kg		83	70 - 130	
Toluene	0.100	0.09118		mg/Kg		91	70 - 130	
Ethylbenzene	0.100	0.09785		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	0.200	0.2046		mg/Kg		102	70 - 130	
o-Xylene	0.100	0.1034		mg/Kg		103	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Client: WSP USA Inc. Job ID: 890-1097-1 Project/Site: EMSU B 925 SDG: Lea County

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

Lab Sample ID: LCSD 880-6528/2-A

Matrix: Solid

Analysis Batch: 6512

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6528

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08452		mg/Kg		85	70 - 130	2	35
Toluene	0.100	0.08944		mg/Kg		89	70 - 130	2	35
Ethylbenzene	0.100	0.09922		mg/Kg		99	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2067		mg/Kg		103	70 - 130	1	35
o-Xylene	0.100	0.1043		mg/Kg		104	70 - 130	1	35

LCSD LCSD

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

Lab Sample ID: 890-1097-1 MS

Matrix: Solid

Analysis Batch: 6512

Client Sample ID: SS01 Prep Type: Total/NA

Prep Batch: 6528

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U F2 F1	0.100	0.05169	F1	mg/Kg		51	70 - 130	
Toluene	<0.00198	U F2 F1	0.100	0.02818	F1	mg/Kg		28	70 - 130	
Ethylbenzene	<0.00198	U F1	0.100	<0.00201	U F1	mg/Kg		2	70 - 130	
m-Xylene & p-Xylene	<0.00397	U F2 F1	0.201	0.01416	F1	mg/Kg		7	70 - 130	
o-Xylene	<0.00198	U F2 F1	0.100	0.04480	F1	mg/Kg		45	70 - 130	

MS MS

Surrogate	%Recovery Qua	alifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1.4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-1097-1 MSD

Matrix: Solid

Analysis Batch: 6512

Client Sample ID: SS01 Prep Type: Total/NA

Prep Batch: 6528

Analysis Batom oo iz										p Baton.	. 0020
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U F2 F1	0.100	0.004504	F2 F1	mg/Kg		5	70 - 130	168	35
Toluene	<0.00198	U F2 F1	0.100	0.008829	F2 F1	mg/Kg		9	70 - 130	105	35
Ethylbenzene	<0.00198	U F1	0.100	0.002489	F1	mg/Kg		2	70 - 130	27	35
m-Xylene & p-Xylene	<0.00397	U F2 F1	0.200	0.007105	F2 F1	mg/Kg		4	70 - 130	66	35
o-Xylene	<0.00198	U F2 F1	0.100	0.01766	F2 F1	mg/Kg		18	70 - 130	87	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Job ID: 890-1097-1

SDG: Lea County

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

Lab Sample ID: MB 880-6589/1-A

Matrix: Solid

Client: WSP USA Inc.

Project/Site: EMSU B 925

Analysis Batch: 6591

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6589

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1
Total TPH	<50.0	U	50.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1

мв мв

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	08/16/21 08:50	08/16/21 11:24	1
o-Terphenyl	118		70 - 130	08/16/21 08:50	08/16/21 11:24	1

Lab Sample ID: LCS 880-6589/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 6591

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 814.9 81 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 832.6 mg/Kg 83 70 - 130 C10-C28)

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 97 70 - 130 o-Terphenyl 97 70 - 130

Lab Sample ID: LCSD 880-6589/3-A

Matrix: Solid

Analysis Batch: 6591

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 6589

Prep Batch: 6589

LCSD LCSD RPD Spike %Rec. Added Result Qualifier Analyte Unit D %Rec Limits **RPD** Limit 1000 902.4 90 70 - 130 10 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 833.9 83 mg/Kg 70 - 1300 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 890-1100-A-81-H MS

Matrix: Solid

Analysis Batch: 6591

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 6589

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	995	1032		mg/Kg		104	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	995	843.5		mg/Kg		85	70 - 130	
C10-C28)										

Job ID: 890-1097-1

SDG: Lea County

Prep Batch: 6589

Project/Site: EMSU B 925

Client: WSP USA Inc.

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

Lab Sample ID: 890-1100-A-81-H MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 6591

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 92 70 - 130 o-Terphenyl 87 70 - 130

Lab Sample ID: 890-1100-A-81-I MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 6591									•	Type: To	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	998	981.7		mg/Kg		98	70 - 130	5	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	998	844.9		mg/Kg		85	70 - 130	0	20

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	88		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6602/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 6718

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/18/21 10:30	1

Lab Sample ID: LCS 880-6602/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 6718

	Spike	LCS LCS				%Rec.	
Analyte	Added	Result Qualifie	r Unit	D	%Rec	Limits	
Chloride	250	254 3	ma/Ka		102	90 - 110	

Lab Sample ID: LCSD 880-6602/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 6718

	Spik	e LCSD	LCSD				%Rec.		RPD
Analyte	Adde	d Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride		254.6		mg/Kg		102	90 - 110		20

Lab Sample ID: 820-1615-A-1-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 6718

7 mm, y 0.10 = 0.10 mm or 10										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	24.3		248	267.2		mg/Kg		98	90 - 110	

QC Sample Results

Client: WSP USA Inc.

Project/Site: EMSU B 925

SDG: Lea County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 820-1615-A-1-C MSD

Matrix: Solid

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analysis Batch: 6718

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	24.3		248	267.4		mg/Kg		98	90 - 110	0	20

3

4

5

7

0

10

12

13

14

QC Association Summary

Client: WSP USA Inc.
Project/Site: EMSU B 925
Job ID: 890-1097-1
SDG: Lea County

GC VOA

Prep Batch: 6498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6498/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 6512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1097-1	SS01	Total/NA	Solid	8021B	6528
890-1097-2	SS02	Total/NA	Solid	8021B	6528
890-1097-3	SS03	Total/NA	Solid	8021B	6528
MB 880-6498/5-A	Method Blank	Total/NA	Solid	8021B	6498
MB 880-6528/5-A	Method Blank	Total/NA	Solid	8021B	6528
LCS 880-6528/1-A	Lab Control Sample	Total/NA	Solid	8021B	6528
LCSD 880-6528/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6528
890-1097-1 MS	SS01	Total/NA	Solid	8021B	6528
890-1097-1 MSD	SS01	Total/NA	Solid	8021B	6528

Prep Batch: 6528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1097-1	SS01	Total/NA	Solid	5035	<u> </u>
890-1097-2	SS02	Total/NA	Solid	5035	
890-1097-3	SS03	Total/NA	Solid	5035	
MB 880-6528/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6528/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6528/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1097-1 MS	SS01	Total/NA	Solid	5035	
890-1097-1 MSD	SS01	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 6589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1097-1	SS01	Total/NA	Solid	8015NM Prep	
890-1097-2	SS02	Total/NA	Solid	8015NM Prep	
890-1097-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-6589/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6589/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1100-A-81-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1100-A-81-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1097-1	SS01	Total/NA	Solid	8015B NM	6589
890-1097-2	SS02	Total/NA	Solid	8015B NM	6589
890-1097-3	SS03	Total/NA	Solid	8015B NM	6589
MB 880-6589/1-A	Method Blank	Total/NA	Solid	8015B NM	6589
LCS 880-6589/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6589
LCSD 880-6589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6589
890-1100-A-81-H MS	Matrix Spike	Total/NA	Solid	8015B NM	6589
890-1100-A-81-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6589

Eurofins Xenco, Carlsbad

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QC Association Summary

Client: WSP USA Inc.

Project/Site: EMSU B 925

SDG: Lea County

HPLC/IC

Leach Batch: 6602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1097-1	SS01	Soluble	Solid	DI Leach	
890-1097-2	SS02	Soluble	Solid	DI Leach	
890-1097-3	SS03	Soluble	Solid	DI Leach	
MB 880-6602/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6602/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6602/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-1615-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
820-1615-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 6718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1097-1	SS01	Soluble	Solid	300.0	6602
890-1097-2	SS02	Soluble	Solid	300.0	6602
890-1097-3	SS03	Soluble	Solid	300.0	6602
MB 880-6602/1-A	Method Blank	Soluble	Solid	300.0	6602
LCS 880-6602/2-A	Lab Control Sample	Soluble	Solid	300.0	6602
LCSD 880-6602/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6602
820-1615-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	6602
820-1615-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	6602

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Job ID: 890-1097-1

SDG: Lea County

Client Sample ID: SS01

Project/Site: EMSU B 925

Client: WSP USA Inc.

Lab Sample ID: 890-1097-1

Matrix: Solid

Date Collected: 08/11/21 12:25 Date Received: 08/12/21 09:21

	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	6528	08/14/21 10:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/15/21 05:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6589	08/16/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6591	08/16/21 18:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6602	08/16/21 11:10	CH	XEN MID
Soluble	Analysis	300.0		1			6718	08/18/21 11:48	CH	XEN MID

Client Sample ID: SS02 Lab Sample ID: 890-1097-2 Date Collected: 08/11/21 12:27 **Matrix: Solid**

Date Received: 08/12/21 09:21

	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	6528	08/14/21 10:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/15/21 05:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6589	08/16/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6591	08/16/21 18:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6602	08/16/21 11:10	CH	XEN MID
Soluble	Analysis	300.0		1			6718	08/18/21 11:54	CH	XEN MID

Client Sample ID: SS03 Lab Sample ID: 890-1097-3

Date Collected: 08/11/21 12:30 **Matrix: Solid** Date Received: 08/12/21 09:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	6528	08/14/21 10:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/15/21 05:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6589	08/16/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6591	08/16/21 18:52	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6602	08/16/21 11:10	CH	XEN MID
Soluble	Analysis	300.0		1			6718	08/18/21 12:00	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.

Project/Site: EMSU B 925

SDG: Lea County

Laboratory: Eurofins Xenco, Midland

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

Authority	P	rogram	Identification Number	Expiration Date
Texas	N	ELAP	T104704400-20-21	06-30-22
The following analytes the agency does not of	' '	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for whi
Analysis Method	Prep Method	Matrix	Analyte	
8015B NM	8015NM Prep	Solid	Total TPH	
OU LOB INIVI	oo isidiki Fieb	John	IUIAI IFFI	

Method Summary

Client: WSP USA Inc. Job ID: 890-1097-1 Project/Site: EMSU B 925

SDG:	Le	a (Со	unty

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Eurofins Xenco, Carlsbad

Page 17 of 22 8/18/2021 Released to Imaging: 10/13/2021 8:25:21 AM

Sample Summary

Client: WSP USA Inc.

Project/Site: EMSU B 925

SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dept
890-1097-1	SS01	Solid	08/11/21 12:25	08/12/21 09:21	- 0.5
890-1097-2	SS02	Solid	08/11/21 12:27	08/12/21 09:21	- 0.5
890-1097-3	SS03	Solid	08/11/21 12:30	08/12/21 09:21	- 0.5

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ircle Method(s) and Metal(s) to be analyzed

Total 200.7 / 6010

200.8 / 6020:

8RCRA 13PPM Texas 11

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Sb As Ba Sb As Ba Be

Ве

B Cd Ca Cr Co Cu Fe Cd Cr Co Cu

Pb Mg Mn Mo Ni K Se

Ag SiO₂ Na Sr

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Hg: 1631 / 245.1 / 7470 / 7471

Pb Mn Mo Ni Se Ag TI U

TCLP / SPLP 6010: 8RCRA

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Deliverables: EDD	Email: Cuna. by ers@ insp. com	432-784-5178 Em	432 - 3
<u>è</u>	City, State ZIP:	MIDLAND, TX TATES	te ZIP: MIDLA
State of Project:	Address	3389 N A St	3300
Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐	Company Name:	SA	y Name: WSP USA
Work Order Comments	Bill to: (if different)	TACOMA MORRESEY -	Manager: TACON
www.xenco.com Page of			
	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Xenco	
Work Order No:	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Environment Testing	curonns
	Chain of Custody		o fina

PO# Sampler's Name:

SAMPLE RECEIPT

Temp Blank: 3

Yes No

Wet Ice:

N_o

Parameters

TPH (ERA BDISMON)

BTEX (ERA 8221B)

890-1097 Chain of Custody

Chronide (EPA 300 7)

TAT starts the day received by the lab, if received by 4:30pm

Due Date: Moutine

o

Sample Custody Seals: Cooler Custody Seals: Samples Received Intact:

Yes No

Z

Yes

No

Z

Corrected Temperature: Temperature Reading: Correction Factor: Thermometer ID:

7

Y.

Sample Identification

Matrix

Sampled 12/1/3

Sampled

Comp

Cont # of

Grab/

1225

8.5 Depth

Date

Time

5503 2255 55¢

CNC

811/21 14/1/3

> 1230 1.7.21

X X ×

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Phone:

City, Sta

Address Compar Project I

Project Number:

Project Name:

EMSU 8 925 432-704-5178

Turn Around

Rush

Pres. Code

ANALYSIS REQUEST

HCL: HC

HNO3: HN MeOH: Me

NaOH: Na

Cool: Cool None: NO

Preservative Codes

DI Water: H₂O

Project Location:

ANNA BYERS LEA COUNTY

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Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)
	forced unless previously negotiated.	incurred by the client if such losses are due to c Xenco, but not analyzed. These terms will be en	ach sample submitted to Eurofins	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 it 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	if service. Eurofins Xenco will be llable only for Eurofins Xenco. A minimum charge of \$85.00

totice: 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

NaOH+Ascorbic Acid: SAPC

Sample Comments

Zn Acetate+NaOH: Zn Na₂S₂O₃: NaSO₃ NaHSO₄: NABIS H₃PO₄: HP H₂S0₄: H₂

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

Environment Testing America

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler			Lab PM Kramer	er ≤	Jessica	യ						္မ	Carrier Tracking No(s)	racki	oN Gr	Ś				998	COC No 890-348 1	7								
Client Contact. Shipping/Receiving	Phone			E-Mail Jessic	E-Mail Jessica kramer@eurofinset.cı	mer(@eui	ofine	et.c	角			Z St	State of Origin New Mexico	Origi	٥ -					Page: Page	ਮੂe 1	Page: Page 1 of 1	l	İ	ļ		İ			1
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SS01 (890-1097-1)	8/11/21	Mountain		Solid	ļ	×	×	×				ļ		-	-			ļ		4											1
SS02 (890-1097-2)	8/11/21	12 27 Mountain		Solid		×	×	×																							- 1
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Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1097-1 SDG Number: Lea County

List Source: Eurofins Xenco, Carlsbad

Login Number: 1097 List Number: 1 Creator: Clifton, Cloe

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

<6mm (1/4").

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1097-1 SDG Number: Lea County

List Source: Eurofins Xenco, Midland

List Creation: 08/13/21 11:21 AM

Login Number: 1097 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	

Eurofins Xenco, Carlsbad

<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-5425-1 Client Project/Site: EMSU B925

Revision: 1

For:

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

Attn: Tacoma Morrissey

J. KRAMER

Authorized for release by: 9/14/2021 12:43:09 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

Have a Question?



Visit us at:

Released to Imaging: 10/13/2021 8:25:21 AM

www.eurofinsus.com/Env

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

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

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Client: WSP USA Inc.

Laboratory Job ID: 880-5425-1

Project/Site: EMSU B925

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-5425-1

Project/Site: EMSU B925

Qualifiers

GC	VOA
Qual	ifier

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

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
Н	Sample was prepped or analyzed beyond the specified holding time
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.
HPLC/IC	Qualifier Description

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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)
	1: " (D) (" (D D/DOF)

Limit of Detection (DoD/DOE) LOD 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 MLMinimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit NC Not Calculated

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

NEG Negative / Absent POS Positive / Present PQL **Practical Quantitation Limit**

PRES Presumptive

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RLReporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Job ID: 880-5425-1

Case Narrative

Client: WSP USA Inc.
Project/Site: EMSU B925

Job ID: 880-5425-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-5425-1

REVISION

The report being provided is a revision of the original report sent on 8/30/2021. The report (revision 1) is being revised due to Per client email, requesting TPH re run on samples 003-004 and 009.

Report revision history

Receipt

The samples were received on 8/25/2021 9:53 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 3.6°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH03A (880-5425-6), BH04 (880-5425-7), BH04A (880-5425-10), BH05A (880-5425-10), BH06 (880-5425-11) and BH06A (880-5425-12). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-5425-A-1-A MS). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-5369-A-1-F MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7363 and analytical batch 880-7359 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

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Project/Site: EMSU B925

Lab Sample ID: 880-5425-1 **Client Sample ID: BH01**

Date Collected: 08/24/21 11:15 **Matrix: Solid** Date Received: 08/25/21 09:53

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/25/21 10:43	08/26/21 00:07	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/25/21 10:43	08/26/21 00:07	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/25/21 10:43	08/26/21 00:07	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/25/21 10:43	08/26/21 00:07	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/25/21 10:43	08/26/21 00:07	1
Xylenes, Total	< 0.00397	U	0.00397		mg/Kg		08/25/21 10:43	08/26/21 00:07	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		08/25/21 10:43	08/26/21 00:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				08/25/21 10:43	08/26/21 00:07	1
1,4-Difluorobenzene (Surr)	84		70 - 130				08/25/21 10:43	08/26/21 00:07	1

Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/26/21 09:55	08/26/21 12:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/26/21 09:55	08/26/21 12:32	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/26/21 09:55	08/26/21 12:32	1
Total TPH	<50.0	U	50.0		mg/Kg		08/26/21 09:55	08/26/21 12:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				08/26/21 09:55	08/26/21 12:32	1
o-Terphenyl	97		70 - 130				08/26/21 09:55	08/26/21 12:32	1

Method: 300.0 - Anions, Ion Cl	nromatogra	phy - Solul	ble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.8		4.98		mg/Kg			08/27/21 23:48	1

Lab Sample ID: 880-5425-2 **Client Sample ID: BH01A** Date Collected: 08/24/21 11:20 Matrix: Solid

Date Received: 08/25/21 09:53

Sample Depth: 4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/26/21 00:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/26/21 00:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/26/21 00:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/25/21 10:43	08/26/21 00:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/26/21 00:28	1
Xylenes, Total	< 0.00399	U	0.00399		mg/Kg		08/25/21 10:43	08/26/21 00:28	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		08/25/21 10:43	08/26/21 00:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				08/25/21 10:43	08/26/21 00:28	1
1,4-Difluorobenzene (Surr)	98		70 - 130				08/25/21 10:43	08/26/21 00:28	1

Project/Site: EMSU B925

Client Sample ID: BH01A Lab Sample ID: 880-5425-2

Date Collected: 08/24/21 11:20 **Matrix: Solid** Date Received: 08/25/21 09:53

Sample Depth: 4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/26/21 09:55	08/26/21 16:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/26/21 09:55	08/26/21 16:25	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/26/21 09:55	08/26/21 16:25	1
Total TPH	<49.9	U	49.9		mg/Kg		08/26/21 09:55	08/26/21 16:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				08/26/21 09:55	08/26/21 16:25	1
o-Terphenyl	96		70 - 130				08/26/21 09:55	08/26/21 16:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RLMDL Unit Prepared **Analyzed** Dil Fac Chloride 12.0 4.97 mg/Kg 08/27/21 23:54

Client Sample ID: BH02 Lab Sample ID: 880-5425-3 **Matrix: Solid**

Date Collected: 08/24/21 11:25 Date Received: 08/25/21 09:53

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/25/21 10:43	08/26/21 00:48	
Toluene	< 0.00199	U	0.00199		mg/Kg		08/25/21 10:43	08/26/21 00:48	•
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/25/21 10:43	08/26/21 00:48	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/25/21 10:43	08/26/21 00:48	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		08/25/21 10:43	08/26/21 00:48	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/25/21 10:43	08/26/21 00:48	
Total BTEX	<0.00398	U	0.00398		mg/Kg		08/25/21 10:43	08/26/21 00:48	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	128		70 - 130				08/25/21 10:43	08/26/21 00:48	
1,4-Difluorobenzene (Surr)	105		70 - 130				08/25/21 10:43	08/26/21 00:48	
Method: 8015B NM - Diesel R Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fa
Method: 8015B NM - Diesel R	ange Organi	ics (DRO)	(GC)						
Analyte Gasoline Range Organics		Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared 09/08/21 14:58	Analyzed 09/09/21 04:14	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8	Qualifier U H	RL 49.8	MDL	mg/Kg	<u>D</u>	09/08/21 14:58	09/09/21 04:14	
Analyte Gasoline Range Organics	Result	Qualifier U H	RL	MDL		<u>D</u>	09/08/21 14:58		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8	Qualifier UH	RL 49.8	MDL	mg/Kg	<u>D</u>	09/08/21 14:58 09/08/21 14:58	09/09/21 04:14	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 349	Qualifier UH	49.8 49.8	MDL	mg/Kg	<u>D</u>	09/08/21 14:58 09/08/21 14:58 09/08/21 14:58	09/09/21 04:14 09/09/21 04:14	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 349 <49.8	Qualifier UH H UH H	49.8 49.8 49.8	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/08/21 14:58 09/08/21 14:58 09/08/21 14:58	09/09/21 04:14 09/09/21 04:14 09/09/21 04:14	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.8 349 <49.8 349	Qualifier UH H UH H	49.8 49.8 49.8 49.8	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/08/21 14:58 09/08/21 14:58 09/08/21 14:58 09/08/21 14:58	09/09/21 04:14 09/09/21 04:14 09/09/21 04:14 09/09/21 04:14	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result <49.8 349 <49.8 349 %Recovery	Qualifier UH H UH H	## RL 49.8 49.8 49.8 Limits	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/08/21 14:58 09/08/21 14:58 09/08/21 14:58 09/08/21 14:58 Prepared 09/08/21 14:58	09/09/21 04:14 09/09/21 04:14 09/09/21 04:14 09/09/21 04:14 Analyzed	Dil Fa
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 <49.8 349 <49.8 349	Qualifier U H U H U H Qualifier	## RL 49.8 49.8 49.8 ## Limits 70 - 130 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/08/21 14:58 09/08/21 14:58 09/08/21 14:58 09/08/21 14:58 Prepared 09/08/21 14:58	09/09/21 04:14 09/09/21 04:14 09/09/21 04:14 09/09/21 04:14 Analyzed 09/09/21 04:14	Dil Fa
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 <49.8 349 <49.8 349	Qualifier U H U H U H Qualifier	## RL 49.8 49.8 49.8 ## Limits 70 - 130 70 - 130		mg/Kg mg/Kg mg/Kg	<u>D</u>	09/08/21 14:58 09/08/21 14:58 09/08/21 14:58 09/08/21 14:58 Prepared 09/08/21 14:58	09/09/21 04:14 09/09/21 04:14 09/09/21 04:14 09/09/21 04:14 Analyzed 09/09/21 04:14	Dil Fa

Project/Site: EMSU B925

Client Sample ID: BH02A

Date Collected: 08/24/21 11:30 Date Received: 08/25/21 09:53

Sample Depth: 4'

Lab Sample ID: 880-5425-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier Dil Fac RL **MDL** Unit Prepared Analyzed Benzene <0.00199 U 0.00199 08/25/21 10:43 08/26/21 01:08 mg/Kg Toluene <0.00199 U 0.00199 mg/Kg 08/25/21 10:43 08/26/21 01:08 Ethylbenzene mg/Kg 08/25/21 10:43 08/26/21 01:08 <0.00199 U 0.00199 m-Xylene & p-Xylene <0.00398 U 0.00398 mg/Kg 08/25/21 10:43 08/26/21 01:08 o-Xylene <0.00199 U 0.00199 mg/Kg 08/25/21 10:43 08/26/21 01:08 Xylenes, Total <0.00398 U 0.00398 mg/Kg 08/25/21 10:43 08/26/21 01:08 Total BTEX <0.00398 U 0.00398 mg/Kg 08/25/21 10:43 08/26/21 01:08 Surrogate Limits Prepared Dil Fac %Recovery Qualifier Analyzed 4-Bromofluorobenzene (Surr) 70 - 130 08/25/21 10:43 08/26/21 01:08 126 1,4-Difluorobenzene (Surr) 99 70 - 130 08/25/21 10:43 08/26/21 01:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	UH	50.0		mg/Kg		09/08/21 14:58	09/09/21 04:34	1
Diesel Range Organics (Over C10-C28)	462	Н	50.0		mg/Kg		09/08/21 14:58	09/09/21 04:34	1
Oll Range Organics (Over C28-C36)	<50.0	U H	50.0		mg/Kg		09/08/21 14:58	09/09/21 04:34	1
Total TPH	462	Н	50.0		mg/Kg		09/08/21 14:58	09/09/21 04:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	09/08/21 14:58	09/09/21 04:34	1
o-Terphenyl	118		70 - 130	09/08/21 14:58	09/09/21 04:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.3	4.99	mg/Kg			08/26/21 19:12	1

Client Sample ID: BH03

Date Collected: 08/24/21 11:35 Date Received: 08/25/21 09:53

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/25/21 10:43	08/26/21 01:29	1
Toluene	< 0.00201	U	0.00201		mg/Kg		08/25/21 10:43	08/26/21 01:29	1
Ethylbenzene	< 0.00201	U	0.00201		mg/Kg		08/25/21 10:43	08/26/21 01:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/25/21 10:43	08/26/21 01:29	1
o-Xylene	< 0.00201	U	0.00201		mg/Kg		08/25/21 10:43	08/26/21 01:29	1
Xylenes, Total	< 0.00402	U	0.00402		mg/Kg		08/25/21 10:43	08/26/21 01:29	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		08/25/21 10:43	08/26/21 01:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				08/25/21 10:43	08/26/21 01:29	1
1,4-Difluorobenzene (Surr)	73		70 - 130				08/25/21 10:43	08/26/21 01:29	1

Eurofins Xenco, Midland

Lab Sample ID: 880-5425-5

Project/Site: EMSU B925

Client Sample ID: BH03 Lab Sample ID: 880-5425-5

Date Collected: 08/24/21 11:35 Matrix: Solid
Date Received: 08/25/21 09:53

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/26/21 09:55	08/26/21 17:50	1
Diesel Range Organics (Over C10-C28)	88.6		49.8		mg/Kg		08/26/21 09:55	08/26/21 17:50	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/26/21 09:55	08/26/21 17:50	1
Total TPH	88.6		49.8		mg/Kg		08/26/21 09:55	08/26/21 17:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				08/26/21 09:55	08/26/21 17:50	1
o-Terphenyl	98		70 - 130				08/26/21 09:55	08/26/21 17:50	1

Method: 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride22.94.97mg/KgDPrepared08/26/21 19:181

Client Sample ID: BH03A Lab Sample ID: 880-5425-6

Date Collected: 08/24/21 11:40

Date Received: 08/25/21 09:53

Sample Depth: 4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/26/21 01:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/26/21 01:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/26/21 01:49	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/25/21 10:43	08/26/21 01:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/26/21 01:49	1
Xylenes, Total	< 0.00401	U	0.00401		mg/Kg		08/25/21 10:43	08/26/21 01:49	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		08/25/21 10:43	08/26/21 01:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				08/25/21 10:43	08/26/21 01:49	1
1,4-Difluorobenzene (Surr)	98		70 - 130				08/25/21 10:43	08/26/21 01:49	1
Method: 8015B NM - Diesel R	•		• •	MDI	l lait	D	Droporod	Analyzad	Dil For
•									
Analyte	Result	Qualifier	RL _	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	•	Qualifier	• •	MDL	Unit mg/Kg	<u>D</u>	Prepared 08/26/21 09:55	Analyzed 08/26/21 18:11	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL _	MDL		<u>D</u>	08/26/21 09:55		1
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	RL 49.9	MDL	mg/Kg	<u> </u>	08/26/21 09:55	08/26/21 18:11	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U U U	RL 49.9	MDL	mg/Kg	<u>D</u>	08/26/21 09:55 08/26/21 09:55	08/26/21 18:11 08/26/21 18:11 08/26/21 18:11	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U U	RL 49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/26/21 09:55 08/26/21 09:55 08/26/21 09:55	08/26/21 18:11 08/26/21 18:11 08/26/21 18:11	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 <49.9 <49.9 <49.9 <49.9	Qualifier U U U U	RL 49.9 49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/26/21 09:55 08/26/21 09:55 08/26/21 09:55 08/26/21 09:55	08/26/21 18:11 08/26/21 18:11 08/26/21 18:11 08/26/21 18:11	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 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80	Qualifier U U U U	RL 49.9 49.9 49.9 49.9 Limits	MDL	mg/Kg mg/Kg mg/Kg	D	08/26/21 09:55 08/26/21 09:55 08/26/21 09:55 08/26/21 09:55 Prepared	08/26/21 18:11 08/26/21 18:11 08/26/21 18:11 08/26/21 18:11 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result <49.9 <49.9 <49.9 <49.9 <49.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89.9 <89	Qualifier U U U Qualifier	RL 49.9 49.9 49.9 49.9 Limits 70 - 130 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/26/21 09:55 08/26/21 09:55 08/26/21 09:55 08/26/21 09:55 Prepared 08/26/21 09:55	08/26/21 18:11 08/26/21 18:11 08/26/21 18:11 08/26/21 18:11 Analyzed 08/26/21 18:11	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	RL 49.9 49.9 49.9 49.9 Limits 70 - 130 70 - 130		mg/Kg mg/Kg mg/Kg	<u>D</u>	08/26/21 09:55 08/26/21 09:55 08/26/21 09:55 08/26/21 09:55 Prepared 08/26/21 09:55	08/26/21 18:11 08/26/21 18:11 08/26/21 18:11 08/26/21 18:11 Analyzed 08/26/21 18:11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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Matrix: Solid

Project/Site: EMSU B925

Client Sample ID: BH04 Lab Sample ID: 880-5425-7

Date Collected: 08/24/21 11:45

Date Received: 08/25/21 09:53

Matrix: Solid

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/25/21 10:43	08/26/21 02:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/25/21 10:43	08/26/21 02:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/25/21 10:43	08/26/21 02:10	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/25/21 10:43	08/26/21 02:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/25/21 10:43	08/26/21 02:10	1
Xylenes, Total	< 0.00403	U	0.00403		mg/Kg		08/25/21 10:43	08/26/21 02:10	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		08/25/21 10:43	08/26/21 02:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130				08/25/21 10:43	08/26/21 02:10	1
1,4-Difluorobenzene (Surr)	103		70 - 130				08/25/21 10:43	08/26/21 02:10	1

Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/26/21 09:55	08/26/21 18:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/26/21 09:55	08/26/21 18:32	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/26/21 09:55	08/26/21 18:32	1
Total TPH	<49.8	U	49.8		mg/Kg		08/26/21 09:55	08/26/21 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				08/26/21 09:55	08/26/21 18:32	1
o-Terphenyl	97		70 - 130				08/26/21 09:55	08/26/21 18:32	1

Method: 300.0 - Anions, Ion Cl	hromatography - S	Soluble					
Analyte	Result Qualifier	r RL	MDL Uni	t D	Prepared	Analyzed	Dil Fac
Chloride	62.2	5.04	mg/	Kg		08/26/21 19:29	1

Client Sample ID: BH04A

Date Collected: 08/24/21 11:50

Lab Sample ID: 880-5425-8

Matrix: Solid

Date Received: 08/25/21 09:53

Sample Depth: 4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/25/21 10:43	08/26/21 02:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/25/21 10:43	08/26/21 02:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/25/21 10:43	08/26/21 02:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/25/21 10:43	08/26/21 02:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/25/21 10:43	08/26/21 02:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/25/21 10:43	08/26/21 02:30	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		08/25/21 10:43	08/26/21 02:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130				08/25/21 10:43	08/26/21 02:30	1
1,4-Difluorobenzene (Surr)	98		70 - 130				08/25/21 10:43	08/26/21 02:30	1

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Released to Imaging: 10/13/2021 8:25:21 AM

Project/Site: EMSU B925

Client Sample ID: BH04A

Date Collected: 08/24/21 11:50 Date Received: 08/25/21 09:53

Sample Depth: 4'

Lab Sample ID: 880-5425-8

Matrix: Solid

08/26/21 19:46

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/25/21 10:12	08/25/21 19:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/25/21 10:12	08/25/21 19:04	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/25/21 10:12	08/25/21 19:04	1
Total TPH	<49.9	U	49.9		mg/Kg		08/25/21 10:12	08/25/21 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				08/25/21 10:12	08/25/21 19:04	1
o-Terphenyl	102		70 - 130				08/25/21 10:12	08/25/21 19:04	1

Client Sample ID: BH05 Lab Sample ID: 880-5425-9

4.98

mg/Kg

Date Collected: 08/24/21 11:55 Date Received: 08/25/21 09:53

Sample Depth: 1'

Chloride

24.8

Method: 8021B - Volatile O	rganic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/26/21 02:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/26/21 02:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/26/21 02:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/25/21 10:43	08/26/21 02:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/26/21 02:50	1
Xylenes, Total	< 0.00399	U	0.00399		mg/Kg		08/25/21 10:43	08/26/21 02:50	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		08/25/21 10:43	08/26/21 02:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				08/25/21 10:43	08/26/21 02:50	1
1,4-Difluorobenzene (Surr)	98		70 - 130				08/25/21 10:43	08/26/21 02:50	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/01/21 08:19	09/01/21 21:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/01/21 08:19	09/01/21 21:12	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/01/21 08:19	09/01/21 21:12	1
Total TPH	<50.0	U	50.0		mg/Kg		09/01/21 08:19	09/01/21 21:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				09/01/21 08:19	09/01/21 21:12	1
o-Terphenyl	80		70 - 130				09/01/21 08:19	09/01/21 21:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	22.3	5.01	mg/Kg			08/26/21 19:51	1	

Project/Site: EMSU B925

Lab Sample ID: 880-5425-10 **Client Sample ID: BH05A**

Date Collected: 08/24/21 12:00 Matrix: Solid Date Received: 08/25/21 09:53

Sample Depth: 4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/26/21 03:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/26/21 03:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/26/21 03:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/25/21 10:43	08/26/21 03:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/26/21 03:11	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/25/21 10:43	08/26/21 03:11	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		08/25/21 10:43	08/26/21 03:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				08/25/21 10:43	08/26/21 03:11	1
1,4-Difluorobenzene (Surr)	97		70 - 130				08/25/21 10:43	08/26/21 03:11	1

Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/25/21 10:12	08/25/21 19:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/25/21 10:12	08/25/21 19:46	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/25/21 10:12	08/25/21 19:46	1
Total TPH	<49.8	U	49.8		mg/Kg		08/25/21 10:12	08/25/21 19:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/25/21 10:12	08/25/21 19:46	1
o-Terphenyl	110		70 - 130				08/25/21 10:12	08/25/21 19:46	1

Method: 300.0 - Anions, Ion Cl	hromatograp	hy - Solub	ole						
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.4		4.97		mg/Kg			08/26/21 19:57	1

Lab Sample ID: 880-5425-11 **Client Sample ID: BH06** Date Collected: 08/24/21 12:05 Matrix: Solid

Date Received: 08/25/21 09:53

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/25/21 10:43	08/26/21 04:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/25/21 10:43	08/26/21 04:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/25/21 10:43	08/26/21 04:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/25/21 10:43	08/26/21 04:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/25/21 10:43	08/26/21 04:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/25/21 10:43	08/26/21 04:32	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		08/25/21 10:43	08/26/21 04:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130				08/25/21 10:43	08/26/21 04:32	1
1,4-Difluorobenzene (Surr)	110		70 - 130				08/25/21 10:43	08/26/21 04:32	1

Project/Site: EMSU B925

Client Sample ID: BH06 Lab Sample ID: 880-5425-11

Date Collected: 08/24/21 12:05 Matrix: Solid
Date Received: 08/25/21 09:53

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/25/21 10:12	08/25/21 20:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/25/21 10:12	08/25/21 20:07	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/25/21 10:12	08/25/21 20:07	1
Total TPH	<50.0	U	50.0		mg/Kg		08/25/21 10:12	08/25/21 20:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				08/25/21 10:12	08/25/21 20:07	1
o-Terphenyl	126		70 - 130				08/25/21 10:12	08/25/21 20:07	1

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 22.5 4.96 mg/Kg D 08/26/21 20:02 1

Client Sample ID: BH06A Lab Sample ID: 880-5425-12

Date Collected: 08/24/21 12:10 Matrix: Solid

Date Received: 08/25/21 09:53

Sample Depth: 4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/26/21 04:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/26/21 04:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/26/21 04:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/25/21 10:43	08/26/21 04:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/26/21 04:52	1
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		08/25/21 10:43	08/26/21 04:52	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		08/25/21 10:43	08/26/21 04:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130				08/25/21 10:43	08/26/21 04:52	1
1,4-Difluorobenzene (Surr)	105		70 - 130				08/25/21 10:43	08/26/21 04:52	1
Method: 8015B NM - Diesel R Analyte	_	ics (DRO) Qualifier	(GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fa
: Method: 8015B NM - Diesel R	ange Organi	ics (DRO)	(GC)						
Analyte Gasoline Range Organics	_	Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared 08/25/21 10:12	Analyzed 08/25/21 20:28	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result < 50.0	Qualifier U	RL 50.0	MDL	mg/Kg	D	08/25/21 10:12	08/25/21 20:28	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL	MDL		<u>D</u>	08/25/21 10:12		1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result < 50.0	Qualifier U	RL 50.0	MDL	mg/Kg	<u>D</u>	08/25/21 10:12 08/25/21 10:12	08/25/21 20:28 08/25/21 20:28	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0	Qualifier U U U	FL 50.0	MDL	mg/Kg	<u>D</u>	08/25/21 10:12 08/25/21 10:12 08/25/21 10:12	08/25/21 20:28 08/25/21 20:28	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U U U	FL 50.0 50.0 50.0	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/25/21 10:12 08/25/21 10:12 08/25/21 10:12	08/25/21 20:28 08/25/21 20:28 08/25/21 20:28	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <50.0 <50.0 <50.0 <50.0	Qualifier U U U U	FL 50.0 50.0 50.0 50.0	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/25/21 10:12 08/25/21 10:12 08/25/21 10:12 08/25/21 10:12	08/25/21 20:28 08/25/21 20:28 08/25/21 20:28 08/25/21 20:28	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60	Qualifier U U U U	## RL 50.0 50.0 50.0	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/25/21 10:12 08/25/21 10:12 08/25/21 10:12 08/25/21 10:12 Prepared 08/25/21 10:12	08/25/21 20:28 08/25/21 20:28 08/25/21 20:28 08/25/21 20:28 Analyzed	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50	Qualifier U U U Qualifier	8L 50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/25/21 10:12 08/25/21 10:12 08/25/21 10:12 08/25/21 10:12 Prepared 08/25/21 10:12	08/25/21 20:28 08/25/21 20:28 08/25/21 20:28 08/25/21 20:28 Analyzed 08/25/21 20:28	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result <50.0 <50.0 <50.0 <50.0 <50.0	Qualifier U U U Qualifier	8L 50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130		mg/Kg mg/Kg mg/Kg	<u>D</u>	08/25/21 10:12 08/25/21 10:12 08/25/21 10:12 08/25/21 10:12 Prepared 08/25/21 10:12	08/25/21 20:28 08/25/21 20:28 08/25/21 20:28 08/25/21 20:28 Analyzed 08/25/21 20:28	Dil Fac

Eurofins Xenco, Midland

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o Acrico, iviididita

Surrogate Summary

Client: WSP USA Inc. Job ID: 880-5425-1

Project/Site: EMSU B925

Method: 8021B - Volatile Organic Compounds (GC)

Prep Type: Total/NA

		BFB1	DFBZ1	nt Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-5425-1	BH01	95	84	
880-5425-1 MS	BH01	134 S1+	93	
880-5425-1 MSD	BH01	116	104	
880-5425-2	BH01A	124	98	
880-5425-3	BH02	128	105	
880-5425-4	BH02A	126	99	
880-5425-5	BH03	124	73	
880-5425-6	BH03A	131 S1+	98	
880-5425-7	BH04	141 S1+	103	
880-5425-8	BH04A	138 S1+	98	
880-5425-9	BH05	130	98	
880-5425-10	BH05A	131 S1+	97	
880-5425-11	BH06	153 S1+	110	
880-5425-12	BH06A	141 S1+	105	
LCS 880-7057/1-A	Lab Control Sample	113	106	
LCSD 880-7057/2-A	Lab Control Sample Dup	109	93	
MB 880-7029/5-A	Method Blank	97	102	
MB 880-7057/5-A	Method Blank	109	97	

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				ent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-5369-A-1-E MS	Matrix Spike	75	70	
880-5369-A-1-F MSD	Matrix Spike Duplicate	71	65 S1-	
880-5425-1	BH01	85	97	
880-5425-1 MS	BH01	82	87	
880-5425-1 MSD	BH01	82	87	
880-5425-2	BH01A	85	96	
880-5425-3	BH02	104	116	
880-5425-4	BH02A	102	118	
880-5425-5	BH03	85	98	
880-5425-6	ВН03А	83	95	
880-5425-7	BH04	85	97	
880-5425-8	BH04A	95	102	
880-5425-9	BH05	73	80	
880-5425-10	BH05A	99	110	
880-5425-11	BH06	113	126	
880-5425-12	BH06A	103	114	
880-5857-A-1-H MS	Matrix Spike	92	94	
880-5857-A-1-I MSD	Matrix Spike Duplicate	94	96	
890-1190-A-1-F MS	Matrix Spike	89	69 S1-	
890-1190-A-1-G MSD	Matrix Spike Duplicate	91	72	
LCS 880-7053/2-A	Lab Control Sample	89	92	

Surrogate Summary

Client: WSP USA Inc. Job ID: 880-5425-1

Project/Site: EMSU B925

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

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

		1001	OTPH1	te Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-7115/2-A	Lab Control Sample	85	90	
LCS 880-7363/2-A	Lab Control Sample	126	141 S1+	
LCS 880-7663/2-A	Lab Control Sample	102	111	
LCSD 880-7053/3-A	Lab Control Sample Dup	93	96	
LCSD 880-7115/3-A	Lab Control Sample Dup	87	93	
LCSD 880-7363/3-A	Lab Control Sample Dup	87	96	
LCSD 880-7663/3-A	Lab Control Sample Dup	96	104	
MB 880-7053/1-A	Method Blank	98	113	
MB 880-7115/1-A	Method Blank	86	98	
MB 880-7363/1-A	Method Blank	67 S1-	67 S1-	
MB 880-7663/1-A	Method Blank	94	110	

OTPH = o-Terphenyl

Project/Site: EMSU B925

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7029/5-A

Matrix: Solid

Analysis Batch: 7042

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7029

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/24/21 16:46	08/25/21 12:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/24/21 16:46	08/25/21 12:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/24/21 16:46	08/25/21 12:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/24/21 16:46	08/25/21 12:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/24/21 16:46	08/25/21 12:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/24/21 16:46	08/25/21 12:54	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		08/24/21 16:46	08/25/21 12:54	1

MB MB

Surrogate	%Recovery Quali	fier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97	70 - 130	08/24/21 16:46	08/25/21 12:54	1
1,4-Difluorobenzene (Surr)	102	70 - 130	08/24/21 16:46	08/25/21 12:54	1

Lab Sample ID: MB 880-7057/5-A

Matrix: Solid

Analysis Batch: 7042

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

Prep Batch: 7057

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/25/21 23:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/25/21 23:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/25/21 23:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/25/21 10:43	08/25/21 23:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/25/21 10:43	08/25/21 23:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/25/21 10:43	08/25/21 23:46	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		08/25/21 10:43	08/25/21 23:46	1

MB	MB
IVID	IVID

Surrogate	%Recovery Qualific	er Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109	70 - 130	08/25/21 10:43	08/25/21 23:46	1
1.4-Difluorobenzene (Surr)	97	70 - 130	08/25/21 10:43	08/25/21 23:46	1

Lab Sample ID: LCS 880-7057/1-A

Matrix: Solid

Analysis Batch: 7042

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 7057

	Spike	LUS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.08469		mg/Kg		85	70 - 130		
Toluene	0.100	0.08501		mg/Kg		85	70 - 130		
Ethylbenzene	0.100	0.08017		mg/Kg		80	70 - 130		
m-Xylene & p-Xylene	0.200	0.1686		mg/Kg		84	70 - 130		
o-Xylene	0.100	0.08535		mg/Kg		85	70 - 130		

LCS LCS	LCS	LCS
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Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Project/Site: EMSU B925

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

Lab Sample ID: LCSD 880-7057/2-A

Matrix: Solid

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

Analysis Batch: 7042 Spike LCSD LCSD

Prep Batch: 7057 RPD %Rec. Limits RPD Limit 80 70 - 130 6 35 80 70 - 130 6 35

Analyte Added Result Qualifier Unit D %Rec Benzene 0.100 0.07953 mg/Kg Toluene 0.100 0.08027 mg/Kg Ethylbenzene 0.100 0.07757 mg/Kg 78 70 - 130 35 3 m-Xylene & p-Xylene 0.200 0.1629 mg/Kg 81 70 - 130 35 0.100 82 35 o-Xylene 0.08198 mg/Kg 70 - 130

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 109 70 - 130 93 1,4-Difluorobenzene (Surr) 70 - 130

Lab Sample ID: 880-5425-1 MS **Client Sample ID: BH01 Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 7042 Prep Batch: 7057

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <0.00198 U 0.0998 0.07239 70 - 130 Benzene mg/Kg 72 0.0998 0.09185 90 Toluene <0.00198 U mg/Kg 70 - 130 Ethylbenzene <0.00198 U 0.0998 0.08219 mg/Kg 82 70 - 130 <0.00397 U 0.1685 mg/Kg 84 70 - 130 m-Xylene & p-Xylene 0.200 <0.00198 U 88 o-Xylene 0.0998 0.08876 mg/Kg 70 - 130

MS MS Surrogate %Recovery Qualifier Limits S1+ 70 - 130 4-Bromofluorobenzene (Surr) 134 1,4-Difluorobenzene (Surr) 93 70 - 130

Lab Sample ID: 880-5425-1 MSD

Matrix: Solid

Analysis Batch: 7042

Client Sample ID: BH01 Prep Type: Total/NA Prep Batch: 7057

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U	0.0994	0.08393		mg/Kg		84	70 - 130	15	35
Toluene	<0.00198	U	0.0994	0.07659		mg/Kg		75	70 - 130	18	35
Ethylbenzene	<0.00198	U	0.0994	0.07062		mg/Kg		71	70 - 130	15	35
m-Xylene & p-Xylene	<0.00397	U	0.199	0.1472		mg/Kg		73	70 - 130	13	35
o-Xylene	<0.00198	U	0.0994	0.07509		mg/Kg		75	70 - 130	17	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Project/Site: EMSU B925

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

Lab Sample ID: MB 880-7053/1-A

Matrix: Solid

Analysis Batch: 7038

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7053

	MR	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/25/21 10:12	08/25/21 11:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/25/21 10:12	08/25/21 11:32	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/25/21 10:12	08/25/21 11:32	1
Total TPH	<50.0	U	50.0		mg/Kg		08/25/21 10:12	08/25/21 11:32	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	08/25/21 10:12	08/25/21 11:32	1
o-Terphenyl	113		70 - 130	08/25/21 10:12	08/25/21 11:32	1

Lab Sample ID: LCS 880-7053/2-A

Matrix: Solid							Prep Type: T	otal/NA
Analysis Batch: 7038							Prep Batc	h: 7053
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	979.2		mg/Kg		98	70 - 130	

850.4

mg/Kg

1000

(GRO)-C6-C10

Diesel Range Organics (Over

C10-C28)

LCS LCS %Recovery Qualifier Surrogate Limits 1-Chlorooctane 89 70 - 130 o-Terphenyl 92 70 - 130

Lab Sample ID: LCSD 880-7053/3-A

Matrix: Solid

Analysis Batch: 7038

Client Sample	ID: Lab	Control	Sample	Dup
				175 1 4

85

Client Sample ID: Lab Control Sample

70 - 130

Prep Type: Total/NA Prep Batch: 7053

Alialysis Datcii. 1030							гтер	Daten.	1000
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1044		mg/Kg		104	70 - 130	6	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	895.0		mg/Kg		89	70 - 130	5	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 880-5369-A-1-E MS

Matrix: Solid

Analysis Batch: 7038

Client Sample ID: Matrix	Spike
Pren Tyne: To	ntal/NΔ

Prep Batch: 7053

, ,	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	950.3		mg/Kg		96	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	995	801.8		mg/Kg		81	70 - 130	

Project/Site: EMSU B925

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

Lab Sample ID: 880-5369-A-1-E MS

Matrix: Solid

Analysis Batch: 7038

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7053

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	70		70 - 130

Lab Sample ID: 880-5369-A-1-F MSD

Matrix: Solid

Analysis Batch: 7038

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 7053

_	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	998	904.0		mg/Kg		91	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	762.3		mg/Kg		76	70 - 130	5	20

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 71 70 - 130 70 - 130 o-Terphenyl 65 S1-

Lab Sample ID: MB 880-7115/1-A

Matrix: Solid

Analysis Batch: 7099

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

Prep Batch: 7115

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 mg/Kg 08/26/21 09:55 08/26/21 11:28 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 08/26/21 09:55 08/26/21 11:28 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 08/26/21 09:55 08/26/21 11:28 Total TPH <50.0 U 50.0 mg/Kg 08/26/21 09:55 08/26/21 11:28		1410	1410							
(GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 08/26/21 09:55 08/26/21 11:28 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 08/26/21 09:55 08/26/21 11:28	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 08/26/21 09:55 08/26/21 11:28	5 5	<50.0	U	50.0		mg/Kg		08/26/21 09:55	08/26/21 11:28	1
	, , , , , , , , , , , , , , , , , , ,	<50.0	U	50.0		mg/Kg		08/26/21 09:55	08/26/21 11:28	1
Total TPH <50.0 U 50.0 mg/Kg 08/26/21 09:55 08/26/21 11:28	Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/26/21 09:55	08/26/21 11:28	1
	Total TPH	<50.0	U	50.0		mg/Kg		08/26/21 09:55	08/26/21 11:28	1

	MB	MB	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	98		70 - 130

MR MR

Prepared Analyzed Dil Fac 08/26/21 09:55 08/26/21 11:28 08/26/21 09:55 08/26/21 11:28

Lab Sample ID: LCS 880-7115/2-A

Released to Imaging: 10/13/2021 8:25:21 AM

Matrix: Solid

Analysis Batch: 7099

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 7115

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	894.7		mg/Kg		89	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	910.1		mg/Kg		91	70 - 130	
C10-C28)								

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	90		70 - 130

Spike

Added

1000

1000

Client: WSP USA Inc. Job ID: 880-5425-1

LCSD LCSD

839.1

923.4

Result Qualifier

Project/Site: EMSU B925

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

Lab Sample ID: LCSD 880-7115/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA Prep Batch: 7115

Analysis Batch: 7099

%Rec. **RPD** %Rec Limits RPD Limit

Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over Unit mg/Kg 84 70 - 130 6 20 92 70 - 130 mg/Kg 20

C10-C28)

Analyte

LCSD LCSD

Limits Surrogate %Recovery Qualifier 1-Chlorooctane 70 - 130 87 70 - 130 o-Terphenyl 93

Client Sample ID: BH01

Matrix: Solid

Lab Sample ID: 880-5425-1 MS

Analysis Batch: 7099 Sample Sample Spike MS MS %Rec.

Prep Type: Total/NA Prep Batch: 7115

Analyte Result Qualifier Added Result Qualifier D %Rec Limits Unit Gasoline Range Organics <50.0 U 995 879.7 88 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 995 857.5 mg/Kg 84 70 - 130 C10-C28)

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: 880-5425-1 MSD

Matrix: Solid

Analysis Batch: 7099

Client Sample ID: BH01

Prep Type: Total/NA Prep Batch: 7115

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics <50.0 U 998 838.7 84 70 - 130 20 5 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 998 858.2 mg/Kg 83 70 - 130 0 20

C10-C28)

MSD MSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	82	70 - 130
o-Terphenyl	87	70 - 130

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

Prep Batch: 7363

Lab Sample ID: MB 880-7363/1-A **Matrix: Solid**

Analysis Batch: 7359

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/01/21 08:19	09/01/21 11:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/01/21 08:19	09/01/21 11:41	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/01/21 08:19	09/01/21 11:41	1
Total TPH	<50.0	U	50.0		mg/Kg		09/01/21 08:19	09/01/21 11:41	1

Client: WSP USA Inc. Job ID: 880-5425-1 Project/Site: EMSU B925

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

Lab Sample ID: MB 880-7363/1-A **Matrix: Solid**

Analysis Batch: 7359

MB MB

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 7363

%Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1-Chlorooctane 67 S1-70 - 130 09/01/21 08:19 09/01/21 11:41 o-Terphenyl 67 S1-70 - 130 09/01/21 08:19 09/01/21 11:41

Lab Sample ID: LCS 880-7363/2-A

Matrix: Solid

Analysis Batch: 7359

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

Prep Batch: 7363

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 853.0 mg/Kg 85 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1213 mg/Kg 121 70 - 130 C10-C28)

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 126 70 - 130 70 - 130 o-Terphenyl 141 S1+

Lab Sample ID: LCSD 880-7363/3-A

Matrix: Solid

Analysis Batch: 7359

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 7363

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits Limit Analyte Unit D %Rec RPD Gasoline Range Organics 1000 864.0 mg/Kg 86 70 - 130 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 1068 mg/Kg 107 70 - 130 13 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 87 o-Terphenyl 96 70 - 130

Lab Sample ID: 890-1190-A-1-F MS

Matrix: Solid

Analysis Batch: 7359

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7363

Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 3660 F1 995 5638 F1 199 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 448 995 1239 mg/Kg 79 70 - 130

C10-C28)

MS MS

%Recovery Limits Surrogate Qualifier 1-Chlorooctane 89 70 - 130 o-Terphenyl 69 S1-70 - 130

Project/Site: EMSU B925

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

Lab Sample ID: 890-1190-A-1-G MSD

Matrix: Solid

Analysis Batch: 7359

Client Sample ID:	Matrix Spike	Duplicate
		T - 4 - 1/8 L 4

Prep Type: Total/NA Prep Batch: 7363

Analysis Batem 1000									ı icp	Dutoii.	, 000
	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	3660	F1	998	5715	F1	mg/Kg		206	70 - 130	1	20
Diesel Range Organics (Over	448		998	1276		mg/Kg		83	70 - 130	3	20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	72		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7663

Lab Sample ID: MB 880-7663/1-A

Matrix: Solid

Analysis Batch: 7628

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/21 14:58	09/08/21 20:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/21 14:58	09/08/21 20:13	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/21 14:58	09/08/21 20:13	1
Total TPH	<50.0	U	50.0		mg/Kg		09/08/21 14:58	09/08/21 20:13	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	09/08/21 14:58	09/08/21 20:13	1
o-Terphenyl	110		70 - 130	09/08/21 14:58	09/08/21 20:13	1

Lab Sample ID: LCS 880-7663/2-A

Matrix: Solid

Analysis Batch: 7628

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 7663

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	883.3		mg/Kg		88	70 - 130	_
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	970.5		mg/Kg		97	70 - 130	
C10-C28)								

	LCS LCS	
Surrogate	%Recovery Qualifier	r Limits
1-Chlorooctane	102	70 - 130
o-Ternhenyl	111	70 130

Lab Sample ID: LCSD 880-7663/3-A

Matrix: Solid

Analysis Batch: 7628

Client Sample	ID:	Lab	Cont	rol	Sample	Dup

Prep Type: Total/NA Prep Batch: 7663

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	794.2		mg/Kg		79	70 - 130	11	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	911.3		mg/Kg		91	70 - 130	6	20
C10-C28)									

Project/Site: EMSU B925

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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7663

Prep Type: Total/NA

ICSD ICSD

Lab Sample ID: LCSD 880-7663/3-A

	LCSD LCSD	
Surrogate	%Recovery Qualifie	r Limits
1-Chlorooctane	96	70 - 130
o-Terphenyl	104	70 - 130

Lab Sample ID: 880-5857-A-1-H MS **Client Sample ID: Matrix Spike** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 7628

Matrix: Solid

Analysis Batch: 7628									Prep	Batch: 7663	,
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	772.6		mg/Kg		78	70 - 130		-
Diesel Range Organics (Over	<50.0	U	995	861.4		mg/Kg		87	70 - 130		

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 880-5857-A-1-I MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 7628

Prep Batch: 7663 Sample Sample Spike MSD MSD **RPD** Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec <50.0 U Gasoline Range Organics 998 810.7 mg/Kg 81 70 - 130 5 20 (GRO)-C6-C10

902.4

mg/Kg

90

70 - 130

998

Diesel Range Organics (Over C10-C28)

	MSD MSD	
Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	94	70 - 130
o-Terphenyl	96	70 - 130

<50.0 U

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7056/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7135

7 maryolo Batom 7 100									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/26/21 18:38	1

Lab Sample ID: LCS 880-7056/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 7135

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	270.2		mg/Kg		108	90 - 110	

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Project/Site: EMSU B925

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-7056/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7135

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit %Rec Limits RPD Limit Analyte D Chloride 250 270.2 mg/Kg 108 90 - 110 0 20

Lab Sample ID: 880-5425-3 MS Client Sample ID: BH02 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7135

Sample Sample Spike MS MS %Rec. Result Qualifier Result Qualifier Added Unit D %Rec Limits Analyte 248 90 - 110 Chloride 21.7 282.5 mg/Kg 105

Lab Sample ID: 880-5425-3 MSD Client Sample ID: BH02 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7135

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier Limits **RPD** Analyte Unit D %Rec Limit Chloride 21.7 248 281.7 105 90 - 110 20 mg/Kg

Lab Sample ID: MB 880-7059/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7191

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <5.00 U 5.00 08/27/21 23:14 Chloride mg/Kg

Lab Sample ID: LCS 880-7059/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7191

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 242.2 97 mg/Kg 90 - 110

Lab Sample ID: LCSD 880-7059/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 7191

Spike LCSD LCSD %Rec. **RPD** Added Limits **RPD** Analyte Result Qualifier Unit D %Rec Limit 250 Chloride 247.6 mg/Kg 99 90 - 110

Lab Sample ID: 880-5423-A-1-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 7191

Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 252 Chloride 12.3 279.1 mg/Kg 106 90 - 110

Lab Sample ID: 880-5423-A-1-C MSD **Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 7191

Released to Imaging: 10/13/2021 8:25:21 AM

Spike MSD MSD %Rec. **RPD** Sample Sample RPD Added Limits Analyte Result Qualifier Result Qualifier Unit D %Rec Limit Chloride 12.3 252 263.8 mg/Kg 100 90 - 11020

Client: WSP USA Inc.

Job ID: 880-5425-1

Project/Site: EMSU B925

GC VOA

Prep Batch: 7029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7029/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 7042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5425-1	BH01	Total/NA	Solid	8021B	7057
880-5425-2	BH01A	Total/NA	Solid	8021B	7057
880-5425-3	BH02	Total/NA	Solid	8021B	7057
880-5425-4	BH02A	Total/NA	Solid	8021B	7057
880-5425-5	BH03	Total/NA	Solid	8021B	7057
880-5425-6	BH03A	Total/NA	Solid	8021B	7057
880-5425-7	BH04	Total/NA	Solid	8021B	7057
880-5425-8	BH04A	Total/NA	Solid	8021B	7057
880-5425-9	BH05	Total/NA	Solid	8021B	7057
880-5425-10	BH05A	Total/NA	Solid	8021B	7057
880-5425-11	BH06	Total/NA	Solid	8021B	7057
880-5425-12	BH06A	Total/NA	Solid	8021B	7057
MB 880-7029/5-A	Method Blank	Total/NA	Solid	8021B	7029
MB 880-7057/5-A	Method Blank	Total/NA	Solid	8021B	7057
LCS 880-7057/1-A	Lab Control Sample	Total/NA	Solid	8021B	7057
LCSD 880-7057/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7057
880-5425-1 MS	BH01	Total/NA	Solid	8021B	7057
880-5425-1 MSD	BH01	Total/NA	Solid	8021B	7057

Prep Batch: 7057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5425-1	BH01	Total/NA	Solid	5035	
880-5425-2	BH01A	Total/NA	Solid	5035	
880-5425-3	BH02	Total/NA	Solid	5035	
880-5425-4	BH02A	Total/NA	Solid	5035	
880-5425-5	BH03	Total/NA	Solid	5035	
880-5425-6	BH03A	Total/NA	Solid	5035	
880-5425-7	BH04	Total/NA	Solid	5035	
880-5425-8	BH04A	Total/NA	Solid	5035	
880-5425-9	BH05	Total/NA	Solid	5035	
880-5425-10	BH05A	Total/NA	Solid	5035	
880-5425-11	BH06	Total/NA	Solid	5035	
880-5425-12	BH06A	Total/NA	Solid	5035	
MB 880-7057/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7057/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7057/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5425-1 MS	BH01	Total/NA	Solid	5035	
880-5425-1 MSD	BH01	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 7038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5425-8	BH04A	Total/NA	Solid	8015B NM	7053
880-5425-10	BH05A	Total/NA	Solid	8015B NM	7053
880-5425-11	BH06	Total/NA	Solid	8015B NM	7053
880-5425-12	BH06A	Total/NA	Solid	8015B NM	7053

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Client: WSP USA Inc. Job ID: 880-5425-1

Project/Site: EMSU B925

GC Semi VOA (Continued)

Analysis Batch: 7038 (Continued)

Lab Sample ID MB 880-7053/1-A	Client Sample ID Method Blank	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 7053
LCS 880-7053/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7053
LCSD 880-7053/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7053
880-5369-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	7053
880-5369-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7053

Prep Batch: 7053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5425-8	BH04A	Total/NA	Solid	8015NM Prep	
880-5425-10	BH05A	Total/NA	Solid	8015NM Prep	
880-5425-11	BH06	Total/NA	Solid	8015NM Prep	
880-5425-12	BH06A	Total/NA	Solid	8015NM Prep	
MB 880-7053/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7053/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7053/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5369-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-5369-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 7099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5425-1	BH01	Total/NA	Solid	8015B NM	7115
880-5425-2	BH01A	Total/NA	Solid	8015B NM	7115
880-5425-5	BH03	Total/NA	Solid	8015B NM	7115
880-5425-6	BH03A	Total/NA	Solid	8015B NM	7115
880-5425-7	BH04	Total/NA	Solid	8015B NM	7115
MB 880-7115/1-A	Method Blank	Total/NA	Solid	8015B NM	7115
LCS 880-7115/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7115
LCSD 880-7115/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7115
880-5425-1 MS	BH01	Total/NA	Solid	8015B NM	7115
880-5425-1 MSD	BH01	Total/NA	Solid	8015B NM	7115

Prep Batch: 7115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5425-1	BH01	Total/NA	Solid	8015NM Prep	
880-5425-2	BH01A	Total/NA	Solid	8015NM Prep	
880-5425-5	BH03	Total/NA	Solid	8015NM Prep	
880-5425-6	BH03A	Total/NA	Solid	8015NM Prep	
880-5425-7	BH04	Total/NA	Solid	8015NM Prep	
MB 880-7115/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7115/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7115/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5425-1 MS	BH01	Total/NA	Solid	8015NM Prep	
880-5425-1 MSD	BH01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 7359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5425-9	BH05	Total/NA	Solid	8015B NM	7363
MB 880-7363/1-A	Method Blank	Total/NA	Solid	8015B NM	7363
LCS 880-7363/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7363
LCSD 880-7363/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7363
890-1190-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	7363

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Client: WSP USA Inc. Job ID: 880-5425-1

Project/Site: EMSU B925

GC Semi VOA (Continued)

Analysis Batch: 7359 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1190-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7363

Prep Batch: 7363

Lab Sample ID 880-5425-9	Client Sample ID BH05	Prep Type Total/NA	Matrix Solid	Method Prep	Prep Batch
MB 880-7363/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7363/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7363/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1190-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1190-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 7628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5425-3	BH02	Total/NA	Solid	8015B NM	7663
880-5425-4	BH02A	Total/NA	Solid	8015B NM	7663
MB 880-7663/1-A	Method Blank	Total/NA	Solid	8015B NM	7663
LCS 880-7663/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7663
LCSD 880-7663/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7663
880-5857-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	7663
880-5857-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7663

Prep Batch: 7663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5425-3	BH02	Total/NA	Solid	8015NM Prep	
880-5425-4	BH02A	Total/NA	Solid	8015NM Prep	
MB 880-7663/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7663/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7663/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5857-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-5857-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 7056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5425-3	BH02	Soluble	Solid	DI Leach	
880-5425-4	BH02A	Soluble	Solid	DI Leach	
880-5425-5	BH03	Soluble	Solid	DI Leach	
880-5425-6	BH03A	Soluble	Solid	DI Leach	
880-5425-7	BH04	Soluble	Solid	DI Leach	
880-5425-8	BH04A	Soluble	Solid	DI Leach	
880-5425-9	BH05	Soluble	Solid	DI Leach	
880-5425-10	BH05A	Soluble	Solid	DI Leach	
880-5425-11	BH06	Soluble	Solid	DI Leach	
880-5425-12	BH06A	Soluble	Solid	DI Leach	
MB 880-7056/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7056/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7056/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5425-3 MS	BH02	Soluble	Solid	DI Leach	
880-5425-3 MSD	BH02	Soluble	Solid	DI Leach	

Client: WSP USA Inc. Job ID: 880-5425-1 Project/Site: EMSU B925

HPLC/IC

Leach Batch: 7059

Lab Sample ID 880-5425-1	Client Sample ID BH01	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
880-5425-2	BH01A	Soluble	Solid	DI Leach	
MB 880-7059/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7059/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7059/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5423-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-5423-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 7135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5425-3	BH02	Soluble	Solid	300.0	7056
880-5425-4	BH02A	Soluble	Solid	300.0	7056
880-5425-5	BH03	Soluble	Solid	300.0	7056
880-5425-6	BH03A	Soluble	Solid	300.0	7056
880-5425-7	BH04	Soluble	Solid	300.0	7056
880-5425-8	BH04A	Soluble	Solid	300.0	7056
880-5425-9	BH05	Soluble	Solid	300.0	7056
880-5425-10	BH05A	Soluble	Solid	300.0	7056
880-5425-11	BH06	Soluble	Solid	300.0	7056
880-5425-12	BH06A	Soluble	Solid	300.0	7056
MB 880-7056/1-A	Method Blank	Soluble	Solid	300.0	7056
LCS 880-7056/2-A	Lab Control Sample	Soluble	Solid	300.0	7056
LCSD 880-7056/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7056
880-5425-3 MS	BH02	Soluble	Solid	300.0	7056
880-5425-3 MSD	BH02	Soluble	Solid	300.0	7056

Analysis Batch: 7191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5425-1	BH01	Soluble	Solid	300.0	7059
880-5425-2	BH01A	Soluble	Solid	300.0	7059
MB 880-7059/1-A	Method Blank	Soluble	Solid	300.0	7059
LCS 880-7059/2-A	Lab Control Sample	Soluble	Solid	300.0	7059
LCSD 880-7059/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7059
880-5423-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	7059
880-5423-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	7059

Job ID: 880-5425-1

Client: WSP USA Inc. Project/Site: EMSU B925

Client Sample ID: BH01

Lab Sample ID: 880-5425-1 Date Collected: 08/24/21 11:15

Matrix: Solid

Date Received: 08/25/21 09:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	7057	08/25/21 10:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7042	08/26/21 00:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7115	08/26/21 09:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7099	08/26/21 12:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7059	08/25/21 10:48	CH	XEN MID
Soluble	Analysis	300.0		1			7191	08/27/21 23:48	CH	XEN MID

Lab Sample ID: 880-5425-2 **Client Sample ID: BH01A** Date Collected: 08/24/21 11:20 **Matrix: Solid**

Date Received: 08/25/21 09:53

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7057	08/25/21 10:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7042	08/26/21 00:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7115	08/26/21 09:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7099	08/26/21 16:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7059	08/25/21 10:48	CH	XEN MID
Soluble	Analysis	300.0		1			7191	08/27/21 23:54	CH	XEN MID

Client Sample ID: BH02 Lab Sample ID: 880-5425-3 Date Collected: 08/24/21 11:25 **Matrix: Solid**

Date Received: 08/25/21 09:53

	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	7057	08/25/21 10:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7042	08/26/21 00:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7663	09/08/21 14:58	DM	XEN MI
Total/NA	Analysis	8015B NM		1			7628	09/09/21 04:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7056	08/25/21 10:43	СН	XEN MI
Soluble	Analysis	300.0		1			7135	08/26/21 18:55	CH	XEN MII

Client Sample ID: BH02A Lab Sample ID: 880-5425-4 Date Collected: 08/24/21 11:30 Matrix: Solid

Date Received: 08/25/21 09:53

	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	7057	08/25/21 10:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7042	08/26/21 01:08	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7663	09/08/21 14:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7628	09/09/21 04:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7056	08/25/21 10:43	СН	XEN MID
Soluble	Analysis	300.0		1			7135	08/26/21 19:12	CH	XEN MID

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Job ID: 880-5425-1

Client: WSP USA Inc. Project/Site: EMSU B925

Client Sample ID: BH03

Date Received: 08/25/21 09:53

Lab Sample ID: 880-5425-5 Date Collected: 08/24/21 11:35

Matrix: Solid

Batch Batch Dil Initial Batch Final Prepared Method **Factor** Number or Analyzed **Prep Type** Type Run **Amount Amount** Analyst Lab Total/NA 5035 7057 08/25/21 10:43 MR XEN MID Prep 4.98 g 5 mL Total/NA 8021B 7042 08/26/21 01:29 KL XEN MID Analysis 1 5 mL 5 mL Total/NA Prep 8015NM Prep 10.05 g 10 mL 7115 08/26/21 09:55 DM XEN MID Total/NA Analysis 8015B NM 1 7099 08/26/21 17:50 AJ XEN MID Soluble 50 mL 7056 08/25/21 10:43 CH XEN MID Leach DI Leach 5.03 g Soluble Analysis 300.0 1 7135 08/26/21 19:18 CH XEN MID

Client Sample ID: BH03A Lab Sample ID: 880-5425-6 Date Collected: 08/24/21 11:40 Matrix: Solid

Date Received: 08/25/21 09:53

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7057	08/25/21 10:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7042	08/26/21 01:49	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7115	08/26/21 09:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7099	08/26/21 18:11	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7056	08/25/21 10:43	СН	XEN MID
Soluble	Analysis	300.0		1			7135	08/26/21 19:23	CH	XEN MID

Client Sample ID: BH04 Lab Sample ID: 880-5425-7 Date Collected: 08/24/21 11:45 Matrix: Solid

Date Received: 08/25/21 09:53

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7057	08/25/21 10:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7042	08/26/21 02:10	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7115	08/26/21 09:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7099	08/26/21 18:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7056	08/25/21 10:43	СН	XEN MID
Soluble	Analysis	300.0		1			7135	08/26/21 19:29	CH	XEN MID

Client Sample ID: BH04A Lab Sample ID: 880-5425-8 Date Collected: 08/24/21 11:50 Matrix: Solid

Date Received: 08/25/21 09:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	7057	08/25/21 10:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7042	08/26/21 02:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7053	08/25/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7038	08/25/21 19:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7056	08/25/21 10:43	СН	XEN MID
Soluble	Analysis	300.0		1			7135	08/26/21 19:46	CH	XEN MID

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Job ID: 880-5425-1

Client: WSP USA Inc. Project/Site: EMSU B925

Client Sample ID: BH05

Date Collected: 08/24/21 11:55 Date Received: 08/25/21 09:53

Lab Sample ID: 880-5425-9

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7057	08/25/21 10:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7042	08/26/21 02:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7363	09/01/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7359	09/01/21 21:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7056	08/25/21 10:43	CH	XEN MID
Soluble	Analysis	300.0		1			7135	08/26/21 19:51	CH	XEN MID

Lab Sample ID: 880-5425-10

Matrix: Solid

Date Collected: 08/24/21 12:00 Date Received: 08/25/21 09:53

Client Sample ID: BH05A

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor** Amount **Amount** Number or Analyzed Analyst Lab Total/NA Prep 5035 4.99 g 5 mL 7057 08/25/21 10:43 MR XEN MID Total/NA 8021B 5 mL 5 mL 7042 08/26/21 03:11 KL XEN MID Analysis 1 Total/NA Prep 8015NM Prep 10.05 q 10 mL 7053 08/25/21 10:12 DM XEN MID Total/NA Analysis 8015B NM 7038 08/25/21 19:46 AJ XEN MID 1 Soluble 5.03 g 50 mL 7056 08/25/21 10:43 CH XEN MID Leach DI Leach Soluble Analysis 300.0 08/26/21 19:57 CH XEN MID 1 7135

Client Sample ID: BH06 Lab Sample ID: 880-5425-11

Date Collected: 08/24/21 12:05 Matrix: Solid Date Received: 08/25/21 09:53

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7057	08/25/21 10:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7042	08/26/21 04:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7053	08/25/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7038	08/25/21 20:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	7056	08/25/21 10:43	CH	XEN MID
Soluble	Analysis	300.0		1			7135	08/26/21 20:02	CH	XEN MID

Client Sample ID: BH06A Lab Sample ID: 880-5425-12

Date Collected: 08/24/21 12:10 Date Received: 08/25/21 09:53

	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	7057	08/25/21 10:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7042	08/26/21 04:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7053	08/25/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7038	08/25/21 20:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7056	08/25/21 10:43	СН	XEN MID
Soluble	Analysis	300.0		1			7135	08/26/21 20:08	CH	XEN MID

Laboratory References:

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

Eurofins Xenco, Midland

Matrix: Solid

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 880-5425-1

Project/Site: EMSU B925

Laboratory: Eurofins Xenco, Midland

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

Authority	Pro	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes the agency does not o	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for whic
Analysis Method	Prep Method	Matrix	Analyte	
8015B NM	8015NM Prep	Solid	Total TPH	
8021B	5035	Solid	Total RTEY	

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Method Summary

Client: WSP USA Inc. Project/Site: EMSU B925 Job ID: 880-5425-1

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

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Sample Summary

Client: WSP USA Inc. Project/Site: EMSU B925 Job ID: 880-5425-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-5425-1	BH01	Solid	08/24/21 11:15	08/25/21 09:53	2'
880-5425-2	BH01A	Solid	08/24/21 11:20	08/25/21 09:53	4'
880-5425-3	BH02	Solid	08/24/21 11:25	08/25/21 09:53	2'
880-5425-4	BH02A	Solid	08/24/21 11:30	08/25/21 09:53	4'
880-5425-5	BH03	Solid	08/24/21 11:35	08/25/21 09:53	2'
880-5425-6	BH03A	Solid	08/24/21 11:40	08/25/21 09:53	4'
880-5425-7	BH04	Solid	08/24/21 11:45	08/25/21 09:53	1'
880-5425-8	BH04A	Solid	08/24/21 11:50	08/25/21 09:53	4'
880-5425-9	BH05	Solid	08/24/21 11:55	08/25/21 09:53	1'
880-5425-10	BH05A	Solid	08/24/21 12:00	08/25/21 09:53	4'
880-5425-11	BH06	Solid	08/24/21 12:05	08/25/21 09:53	1'
880-5425-12	BH06A	Solid	08/24/21 12:10	08/25/21 09:53	4'

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City, State ZIP

Midland, TX 79705 3300 North A Street

City, State ZIP Address Company Name

Midland, Tx 79705 3300 North A Street

Reporting Level II

Devel III/ DIT/UST

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Program: UST/PST State of Project:

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Work Order Comments

Project Manager

lacoma

Bill to (if different)

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Company Name ddress

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Chain of Custody

Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-620-2000) Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio, TX (210) 509-3334 Midland TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

Phone 432 704 5178 Email		Deliverables EDD ADaPT	Other
Project Name EMSU 8925 Turn Around	ANALYSIS REQUEST	EST	Work Order Notes
Project Number 3/4/03551,000 Routine			
	0)		····
Sampler's Name hallo henry Due Date	-		
SAMPLE RECEIPT Temp Blank Yes No Wet Ice Yes No	15)		
Temperature (°C) 3.1/3.6 Thermomater ID	80 81		
Received Intact (Yes No. 120	A LA		
Cooler Custody Seals Yes No (NA) Correction Factor 0.5	EP (E		TAT starts the day received by the
Sample Custody Seals Yes No (N/A) Total Containers	ł C		lab if received by 4 30pm
Sample Identification Matrix Date Time Depth	TPH BTE Chi		Sample Comments
Sta 3/24 11:15 2'	2 × × <		
3,162 11:25 2'			
11:35			
\$ A			
7.8.1			
BH04A 11:50 4"			
11:55			
SH05A V W 12:00 4'	\$\display \display \d		
Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 AI Sb As Ba Circle Method(s) and Metal(s) to be analyzed TCLP / SPI P 6010 8RCRA Sh As Ra F	Be B Cd Ca Cr Co Cu Fe	Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na	Na Sr TI Sn U V Zn
Notice. Signature of this document and relinquishment of samples constitutes a valid purchase order for			
Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	om client company to Xenco, its affiliates and subcontractors. It assign any losses or expenses incurred by the client if such losses are due to le submitted to Xenco, but not analyzed. These terms will be enforced u	It assigns standard terms and conditions due to circumstances beyond the control forced unless previously negotiated.	
Relinquished by: (Signature)	Date/Time Relinquished by (Signature)	ture) Received by (Signature)	Date/Time
MANOL - MISMO	* F SC -8		
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Revised Date 051418 Rev 2018.1

Revised Date 051418 Rev 2018 1

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e) Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time		Received by: (Signature)	(Sugnature)	Relinguished by
	s beyond the control	1135	sses or expenses incurred by t mitted to Xenco, but not analyz	esponsibility for any lo \$5 for each sample sub	s and shall not assume any i ach project and a charge of	of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses of xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be	of service. Xenco will be of Xenco. A minimum ch
		iates and subcontractors. It assigns standard terms and conditions	ent company to Xenco, its affili	ourchase order from clic	samples constitutes a valid	Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors	Notice Signature of this
Na Sr TI Sn U V Zn 1631/245.1/7470/7471 Hg	Ag SiO2	Cd Ca Cr Co Cu Fe Pb Mg Cr Co Cu Pb Mn Mo Ni Se	Al Sb As Ba Be B Sb As Ba Be Cd	IRCRA 13PPM Texas 11 /		otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Circle Method(s) a
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Sample Comments			TPI BT Ch	Depth	Date Time Sampled Sampled	Matrix	Sample Identification
lab if received by 4 30pm			4 (Ex		otal Co	als res no (N/A	Sample Custody Seals
TAT starts the day recevied by the			°E0	Ü	Correction Factor	Yes No	Cooler Custody Seals
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			8c 4	步	Thermonyete	343.6	Temperature (°C)
			015 507	(Yes No	Yes (No) Wet Ice	H	SAMPLE RECEIPT
			UB	Due Date	1	Kaleb Henry	Sampler's Name
				ה ו			P O Number
				Routine	Ro	314035.51,000	Project Number
Work Order Notes		ANALYSIS REQUEST		Turn Around		Emsu 8 925	Project Name
Oth		Delivera			Email	432 704 5178	Phone
	Reporting Level II	Reportir	Midland, Tx 79705	City, State ZIP		Midland, TX 79705	City, State ZIP
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Mds FC Sperfund	Program: UST/PST	Prograr	11 4	Company Name		Ι.	Company Name
	Work Order Comments		7 11	Bill to (if different)	MORRISSEM	Tacoma m	Project Manager
ン of 2	www xenco com	Hobbs NM (575-392 7550) Phoenix,AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-620-2000)	(480-355-0900) Atlanta GA	92 7550) Phoenix,AZ	Hobbs NM (575-3		
		Midland TX (432-704-5440) EL Paso TX (915)585-3443 Lubbock,TX (806)794-1296)) EL Paso TX (915)585-344	and TX (432-704-544)	Mid		
	Work Orc	istody	Chain of Custony	TV (004) 040 4000		コこう	

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 880-5425-1

List Source: Eurofins Xenco, Midland Login Number: 5425

List Number: 1

Creator: Teel, Brianna

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1252-1

Laboratory Sample Delivery Group: 31403551

Client Project/Site: EMSU B 925

For:

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

Attn: Tacoma Morrissey

MRAMER

Authorized for release by: 9/16/2021 9:22:25 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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www.eurofinsus.com/Env

Released to Imaging: 10/13/2021 8:25:21 AM

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

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

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Client: WSP USA Inc.

Project/Site: EMSU B 925

Laboratory Job ID: 890-1252-1 SDG: 31403551

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Definitions/Glossary

 Client: WSP USA Inc.
 Job ID: 890-1252-1

 Project/Site: EMSU B 925
 SDG: 31403551

403551

Qualifiers

GC VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Description

*- LCS and/or LCSD is outside acceptance limits, low biased.

F1 MS and/or MSD recovery exceeds control limits.

S1+ Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

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Case Narrative

 Client: WSP USA Inc.
 Job ID: 890-1252-1

 Project/Site: EMSU B 925
 SDG: 31403551

Job ID: 890-1252-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1252-1

Receipt

The samples were received on 9/14/2021 1:27 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW01 (890-1252-2). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

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Matrix: Solid

Lab Sample ID: 890-1252-1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1252-1 Project/Site: EMSU B 925 SDG: 31403551

Client Sample ID: FS01

Date Collected: 09/13/21 14:55 Date Received: 09/14/21 13:27

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/15/21 11:00	09/15/21 12:01	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/15/21 11:00	09/15/21 12:01	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/15/21 11:00	09/15/21 12:01	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		09/15/21 11:00	09/15/21 12:01	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/15/21 11:00	09/15/21 12:01	1
Xylenes, Total	< 0.00396	U	0.00396	mg/Kg		09/15/21 11:00	09/15/21 12:01	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		09/15/21 11:00	09/15/21 12:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			09/15/21 11:00	09/15/21 12:01	1
1,4-Difluorobenzene (Surr)	103		70 - 130			09/15/21 11:00	09/15/21 12:01	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/15/21 14:30	09/15/21 14:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0	mg/Kg		09/15/21 14:30	09/15/21 14:52	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/15/21 14:30	09/15/21 14:52	1
Total TPH	<50.0	U	50.0	mg/Kg		09/15/21 14:30	09/15/21 14:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			09/15/21 14:30	09/15/21 14:52	1
o-Terphenyl	128		70 - 130			09/15/21 14:30	09/15/21 14:52	1

Method: 300.0 - Anions, Ion Chroma	tography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.3	F1	5.05	mg/Kg			09/15/21 14:43	1

Client Sample ID: SW01 Date Collected: 09/13/21 14:56

Date Received: 09/14/21 13:27

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/15/21 11:00	09/15/21 12:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/15/21 11:00	09/15/21 12:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/15/21 11:00	09/15/21 12:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/15/21 11:00	09/15/21 12:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/15/21 11:00	09/15/21 12:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/15/21 11:00	09/15/21 12:21	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/15/21 11:00	09/15/21 12:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			09/15/21 11:00	09/15/21 12:21	1
1,4-Difluorobenzene (Surr)	100		70 - 130			09/15/21 11:00	09/15/21 12:21	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1252-2

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-1252-2

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1252-1

 Project/Site: EMSU B 925
 SDG: 31403551

Client Sample ID: SW01

Date Collected: 09/13/21 14:56 Date Received: 09/14/21 13:27

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/15/21 15:00	09/15/21 15:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U *-	49.8	mg/Kg		09/15/21 15:00	09/15/21 15:14	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/15/21 15:00	09/15/21 15:14	1
Total TPH	<49.8	U	49.8	mg/Kg		09/15/21 15:00	09/15/21 15:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130			09/15/21 15:00	09/15/21 15:14	1
o-Terphenyl	149	S1+	70 - 130			09/15/21 15:00	09/15/21 15:14	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.5		4.95	mg/Kg			09/15/21 15:00	

Client Sample ID: SW02

Date Collected: 09/13/21 14:58

Lab Sample ID: 890-1252-3

Matrix: Solid

Date Collected: 09/13/21 14:58 Date Received: 09/14/21 13:27

Method: 8021B - Volatile Organic Compounds (GC)

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201	mg/Kg		09/15/21 11:00	09/15/21 12:41	
Toluene	<0.00201	U	0.00201	mg/Kg		09/15/21 11:00	09/15/21 12:41	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/15/21 11:00	09/15/21 12:41	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/15/21 11:00	09/15/21 12:41	
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/15/21 11:00	09/15/21 12:41	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/15/21 11:00	09/15/21 12:41	
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/15/21 11:00	09/15/21 12:41	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	106		70 - 130			09/15/21 11:00	09/15/21 12:41	
1,4-Difluorobenzene (Surr)	110		70 - 130			09/15/21 11:00	09/15/21 12:41	
Method: 8015B NM - Diesel Rang Analyte	• • •	RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
								DII Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/15/21 15:00	09/15/21 15:35	ĺ
Diesel Range Organics (Over	<50.0	U *-	50.0	mg/Kg		09/15/21 15:00	09/15/21 15:35	
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0		50.0	mg/Kg		09/15/21 15:00	09/15/21 15:35	
Total TPH	<50.0	U	50.0	mg/Kg		09/15/21 15:00	09/15/21 15:35	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	99		70 - 130			09/15/21 15:00	09/15/21 15:35	
o-Terphenyl	108		70 - 130			09/15/21 15:00	09/15/21 15:35	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
•	0.,	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte	Result	Qualifici	INL	Oilit		riepaieu	Allalyzeu	Dii i a

Eurofins Xenco, Carlsbad

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Job ID: 890-1252-1

Client: WSP USA Inc. Project/Site: EMSU B 925 SDG: 31403551

Client Sample ID: SW03 Lab Sample ID: 890-1252-4

Date Collected: 09/13/21 15:00 Matrix: Solid Date Received: 09/14/21 13:27

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/15/21 11:00	09/15/21 13:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/15/21 11:00	09/15/21 13:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/15/21 11:00	09/15/21 13:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/15/21 11:00	09/15/21 13:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/15/21 11:00	09/15/21 13:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/15/21 11:00	09/15/21 13:02	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/15/21 11:00	09/15/21 13:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			09/15/21 11:00	09/15/21 13:02	1
1,4-Difluorobenzene (Surr)	108		70 - 130			09/15/21 11:00	09/15/21 13:02	1
Method: 8015B NM - Diesel Rang	ge Organics (Di	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	• • •	Qualifier	RL 49.8	Unit mg/Kg	<u>D</u>	Prepared 09/15/21 15:00	Analyzed 09/15/21 15:55	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8	Qualifier U	49.8	mg/Kg	<u>D</u>	09/15/21 15:00	09/15/21 15:55	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>	<u>·</u>		1
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8	Qualifier U U *-	49.8	mg/Kg	<u>D</u>	09/15/21 15:00	09/15/21 15:55	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 <49.8	Qualifier U U *-	49.8	mg/Kg	<u>D</u>	09/15/21 15:00 09/15/21 15:00	09/15/21 15:55 09/15/21 15:55	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 <49.8 <49.8	Qualifier U U *- U	49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/15/21 15:00 09/15/21 15:00 09/15/21 15:00	09/15/21 15:55 09/15/21 15:55 09/15/21 15:55	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49	Qualifier U U *- U	49.8 49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/15/21 15:00 09/15/21 15:00 09/15/21 15:00 09/15/21 15:00	09/15/21 15:55 09/15/21 15:55 09/15/21 15:55 09/15/21 15:55	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49	Qualifier U U *- U	49.8 49.8 49.8 49.8 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/15/21 15:00 09/15/21 15:00 09/15/21 15:00 09/15/21 15:00 Prepared	09/15/21 15:55 09/15/21 15:55 09/15/21 15:55 09/15/21 15:55 Analyzed	1 1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result <49.8 <49.8 <49.8 <49.8 <49.8 %Recovery 105 114	Qualifier U U *- U Qualifier	49.8 49.8 49.8 49.8 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/15/21 15:00 09/15/21 15:00 09/15/21 15:00 09/15/21 15:00 Prepared 09/15/21 15:00	09/15/21 15:55 09/15/21 15:55 09/15/21 15:55 09/15/21 15:55 Analyzed 09/15/21 15:55	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: SW04 Lab Sample ID: 890-1252-5

5.04

mg/Kg

16.4

102

Date Collected: 09/13/21 15:02 Date Received: 09/14/21 13:27

Sample Depth: 0 - 4

1,4-Difluorobenzene (Surr)

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/15/21 11:00	09/15/21 13:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/15/21 11:00	09/15/21 13:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/15/21 11:00	09/15/21 13:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/15/21 11:00	09/15/21 13:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/15/21 11:00	09/15/21 13:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/15/21 11:00	09/15/21 13:22	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/15/21 11:00	09/15/21 13:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			09/15/21 11:00	09/15/21 13:22	1

70 - 130

09/15/21 13:22

09/15/21 11:00

09/15/21 15:11

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-1252-5

09/15/21 15:17

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1252-1

 Project/Site: EMSU B 925
 SDG: 31403551

Client Sample ID: SW04

Date Collected: 09/13/21 15:02 Date Received: 09/14/21 13:27

Sample Depth: 0 - 4

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		09/15/21 15:00	09/15/21 16:16	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U *-	50.0	mg/Kg		09/15/21 15:00	09/15/21 16:16	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/15/21 15:00	09/15/21 16:16	1
Total TPH	<50.0	U	50.0	mg/Kg		09/15/21 15:00	09/15/21 16:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			09/15/21 15:00	09/15/21 16:16	1
o-Terphenyl	117		70 - 130			09/15/21 15:00	09/15/21 16:16	1

5.00

mg/Kg

16.8

Λ

6

8

10

13

1/

Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-1252-1

 Project/Site: EMSU B 925
 SDG: 31403551

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID C	lient Sample ID	(70-130)	(70-130)	
880-6055-A-1-C MS M	latrix Spike	113	92	
880-6055-A-1-D MSD M	latrix Spike Duplicate	117	86	
890-1252-1 F:	S01	104	103	
890-1252-2 S	W01	105	100	
890-1252-3 S	W02	106	110	
890-1252-4 S	W03	108	108	
890-1252-5 S	W04	116	102	
LCS 880-7888/1-A La	ab Control Sample	103	90	
LCSD 880-7888/2-A La	ab Control Sample Dup	100	90	
MB 880-7878/5-A M	lethod Blank	129	100	
MB 880-7881/39 M	lethod Blank	123	98	
Surrogate Legend				
BFB = 4-Bromofluorobenzene (S	Burr)			
DFBZ = 1,4-Difluorobenzene (Si	urr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-6143-A-1-F MS	Matrix Spike	83	77	
880-6143-A-1-G MSD	Matrix Spike Duplicate	83	76	
890-1252-1	FS01	109	128	
890-1252-2	SW01	128	149 S1+	
890-1252-3	SW02	99	108	
890-1252-4	SW03	105	114	
890-1252-5	SW04	111	117	
LCS 880-7930/2-A	Lab Control Sample	90	88	
LCSD 880-7930/3-A	Lab Control Sample Dup	91	91	
MB 880-7930/1-A	Method Blank	95	109	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-1252-1

SDG: 31403551

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7878/5-A

Lab Sample ID: MB 880-7881/39

Matrix: Solid

Matrix: Solid

Analysis Batch: 7881

Client: WSP USA Inc.

Project/Site: EMSU B 925

Analysis Batch: 7881

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7878

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 17:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 17:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 17:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/14/21 11:16	09/14/21 17:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 11:16	09/14/21 17:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/14/21 11:16	09/14/21 17:01	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/14/21 11:16	09/14/21 17:01	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129	70 - 130	09/14/21 11:16	09/14/21 17:01	1
1,4-Difluorobenzene (Surr)	100	70 - 130	09/14/21 11:16	09/14/21 17:01	1

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			09/15/21 04:37	1
Toluene	<0.00200	U	0.00200	mg/Kg			09/15/21 04:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			09/15/21 04:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			09/15/21 04:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			09/15/21 04:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			09/15/21 04:37	1
Total BTEX	<0.00400	U	0.00400	ma/Ka			09/15/21 04:37	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130		09/15/21 04:37	1
1,4-Difluorobenzene (Surr)	98		70 - 130		09/15/21 04:37	1

Lab Sample ID: LCS 880-7888/1-A

Matrix: Solid

Analysis Batch: 7881

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

Prep Batch: 7888

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08771		mg/Kg		88	70 - 130	
Toluene	0.100	0.1017		mg/Kg		102	70 - 130	
Ethylbenzene	0.100	0.1052		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	0.200	0.1877		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.09521		mg/Kg		95	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	103		70 - 130		
1,4-Difluorobenzene (Surr)	90		70 - 130		

Client: WSP USA Inc. Job ID: 890-1252-1 Project/Site: EMSU B 925

SDG: 31403551

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

Lab Sample ID: LCSD 880-7888/2-A

Matrix: Solid

Analysis Batch: 7881

Client Sa	ample ID:	Lab	Control	Sample	Dup

Prep Type: Total/NA

Prep Batch: 7888

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08560		mg/Kg		86	70 - 130	2	35
Toluene	0.100	0.09932		mg/Kg		99	70 - 130	2	35
Ethylbenzene	0.100	0.1030		mg/Kg		103	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1854		mg/Kg		93	70 - 130	1	35
o-Xylene	0.100	0.09370		mg/Kg		94	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1.4-Difluorobenzene (Surr)	90		70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7888

Lab Sample ID: 880-6055-A-1-C MS

Lab Sample ID: 880-6055-A-1-D MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 7881

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.100	0.07442		mg/Kg		74	70 - 130	
Toluene	< 0.00199	U	0.100	0.08327		mg/Kg		83	70 - 130	
Ethylbenzene	0.00236		0.100	0.08393		mg/Kg		81	70 - 130	
m-Xylene & p-Xylene	0.00546		0.200	0.1488		mg/Kg		72	70 - 130	
o-Xylene	0.00832		0.100	0.07984		mg/Kg		71	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1 4-Difluorobenzene (Surr)	92		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	· r								7 F · · · · · · · · · · · · · · · · · ·		
Analysis Batch: 7881									Pre	: 7888	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0996	0.07844		mg/Kg		79	70 - 130	5	35
Toluene	<0.00199	U	0.0996	0.09275		mg/Kg		93	70 - 130	11	35
Ethylbenzene	0.00236		0.0996	0.1034		mg/Kg		101	70 - 130	21	35
m-Xylene & p-Xylene	0.00546		0.199	0.1558		mg/Kg		75	70 - 130	5	35
o-Xylene	0.00832		0.0996	0.08219		mg/Kg		74	70 - 130	3	35

MSD MSD

Surrogate	%Recovery Qualit	fier Limits
4-Bromofluorobenzene (Surr)	117	70 - 130
1,4-Difluorobenzene (Surr)	86	70 - 130

Client: WSP USA Inc. Job ID: 890-1252-1 SDG: 31403551 Project/Site: EMSU B 925

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

Lab Sample ID: MB 880-7930/1-A

Matrix: Solid

Analysis Batch: 7905

Client Sample II	D: Method Blank
Pre	p Type: Total/NA

Prep Batch: 7930

Prep Batch: 7930

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		09/15/21 11:54	09/15/21 12:04	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		09/15/21 11:54	09/15/21 12:04	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/15/21 11:54	09/15/21 12:04	1
Total TPH	<50.0	U	50.0	mg/Kg		09/15/21 11:54	09/15/21 12:04	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	09/15/21 11:54	09/15/21 12:04	1
o-Terphenyl	109		70 - 130	09/15/21 11:54	09/15/21 12:04	1

Lab Sample ID: LCS 880-7930/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 7905

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 749.2 75 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 736.7 mg/Kg 74 70 - 130 C10-C28)

LCS LCS %Recovery Qualifier Surrogate Limits 1-Chlorooctane 90 70 - 130 88 o-Terphenyl 70 - 130

Analysis Batch: 7905

Lab Sample ID: LCSD 880-7930/3-A	Client Sample ID: Lab Control Sample Dup
Matrix: Solid	Prep Type: Total/NA

IA Prep Batch: 7930

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	852.2		mg/Kg		85	70 - 130	13	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	769.5		mg/Kg		77	70 - 130	4	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 880-6143-A-1-F MS

Matrix: Solid

Analysis Batch: 7905

Prep Type: Total/NA Prep Batch: 7930

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	863.4		mg/Kg		87	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.8	U F1 *-	997	672.1	F1	mg/Kg		66	70 - 130	

Client: WSP USA Inc. Job ID: 890-1252-1 Project/Site: EMSU B 925 SDG: 31403551

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

Lab Sample ID: 880-6143-A-1-F MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 7905

Prep Type: Total/NA

Prep Batch: 7930

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 83 70 - 130 o-Terphenyl 77 70 - 130

Lab Sample ID: 880-6143-A-1-G MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 7905

Prep Type: Total/NA

Prep Batch: 7930

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit <49.8 U 999 846.5 85 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U F1 *-999 678.8 F1 66 mg/Kg 70 - 13020

Limits

C10-C28)

Surrogate

MSD MSD %Recovery Qualifier

70 - 130 1-Chlorooctane 83 76 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7938/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 7939

мв мв

Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed 5.00 Chloride <5.00 U mg/Kg 09/15/21 14:26

Lab Sample ID: LCS 880-7938/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7939

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

Lab Sample ID: LCSD 880-7938/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 7939

Spike LCSD LCSD %Rec. RPD Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit Chloride 253 263.1 104 90 - 110 20 mg/Kg

Lab Sample ID: 890-1252-1 MS **Client Sample ID: FS01 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 7939

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 17.3 F1 253 F1 Chloride 299.7 mg/Kg 112 90 - 110

QC Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1252-1

 Project/Site: EMSU B 925
 SDG: 31403551

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1252-1 MSD

Matrix: Solid

Client Sample ID: FS01

Prep Type: Soluble

Analysis Batch: 7939

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	17.3	F1	250	299.1	F1	mg/Kg		113	90 - 110	0	20

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 Client: WSP USA Inc.
 Job ID: 890-1252-1

 Project/Site: EMSU B 925
 SDG: 31403551

GC VOA

Prep Batch: 7878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7878/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 7881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1252-1	FS01	Total/NA	Solid	8021B	7888
890-1252-2	SW01	Total/NA	Solid	8021B	7888
890-1252-3	SW02	Total/NA	Solid	8021B	7888
890-1252-4	SW03	Total/NA	Solid	8021B	7888
890-1252-5	SW04	Total/NA	Solid	8021B	7888
MB 880-7878/5-A	Method Blank	Total/NA	Solid	8021B	7878
MB 880-7881/39	Method Blank	Total/NA	Solid	8021B	
LCS 880-7888/1-A	Lab Control Sample	Total/NA	Solid	8021B	7888
LCSD 880-7888/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7888
880-6055-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	7888
880-6055-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7888

Prep Batch: 7888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1252-1	FS01	Total/NA	Solid	5035	
890-1252-2	SW01	Total/NA	Solid	5035	
890-1252-3	SW02	Total/NA	Solid	5035	
890-1252-4	SW03	Total/NA	Solid	5035	
890-1252-5	SW04	Total/NA	Solid	5035	
LCS 880-7888/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7888/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6055-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-6055-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 7905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1252-1	FS01	Total/NA	Solid	8015B NM	7930
890-1252-2	SW01	Total/NA	Solid	8015B NM	7930
890-1252-3	SW02	Total/NA	Solid	8015B NM	7930
890-1252-4	SW03	Total/NA	Solid	8015B NM	7930
890-1252-5	SW04	Total/NA	Solid	8015B NM	7930
MB 880-7930/1-A	Method Blank	Total/NA	Solid	8015B NM	7930
LCS 880-7930/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7930
LCSD 880-7930/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7930
880-6143-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	7930
880-6143-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7930

Prep Batch: 7930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1252-1	FS01	Total/NA	Solid	8015NM Prep	
890-1252-2	SW01	Total/NA	Solid	8015NM Prep	
890-1252-3	SW02	Total/NA	Solid	8015NM Prep	
890-1252-4	SW03	Total/NA	Solid	8015NM Prep	
890-1252-5	SW04	Total/NA	Solid	8015NM Prep	
MB 880-7930/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

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Client: WSP USA Inc. Job ID: 890-1252-1 Project/Site: EMSU B 925 SDG: 31403551

GC Semi VOA (Continued)

Prep Batch: 7930 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-7930/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7930/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6143-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6143-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 7938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1252-1	FS01	Soluble	Solid	DI Leach	
890-1252-2	SW01	Soluble	Solid	DI Leach	
890-1252-3	SW02	Soluble	Solid	DI Leach	
890-1252-4	SW03	Soluble	Solid	DI Leach	
890-1252-5	SW04	Soluble	Solid	DI Leach	
MB 880-7938/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7938/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7938/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1252-1 MS	FS01	Soluble	Solid	DI Leach	
890-1252-1 MSD	FS01	Soluble	Solid	DI Leach	

Analysis Batch: 7939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1252-1	FS01	Soluble	Solid	300.0	7938
890-1252-2	SW01	Soluble	Solid	300.0	7938
890-1252-3	SW02	Soluble	Solid	300.0	7938
890-1252-4	SW03	Soluble	Solid	300.0	7938
890-1252-5	SW04	Soluble	Solid	300.0	7938
MB 880-7938/1-A	Method Blank	Soluble	Solid	300.0	7938
LCS 880-7938/2-A	Lab Control Sample	Soluble	Solid	300.0	7938
LCSD 880-7938/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7938
890-1252-1 MS	FS01	Soluble	Solid	300.0	7938
890-1252-1 MSD	FS01	Soluble	Solid	300.0	7938

Client: WSP USA Inc. Job ID: 890-1252-1 Project/Site: EMSU B 925 SDG: 31403551

Client Sample ID: FS01 Lab Sample ID: 890-1252-1

Date Collected: 09/13/21 14:55 Matrix: Solid Date Received: 09/14/21 13:27

	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	7888	09/15/21 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/15/21 12:01	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7930	09/15/21 14:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7905	09/15/21 14:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	7938	09/15/21 14:08	CH	XEN MID
Soluble	Analysis	300.0		1			7939	09/15/21 14:43	CH	XEN MID

Client Sample ID: SW01 Lab Sample ID: 890-1252-2 Date Collected: 09/13/21 14:56 **Matrix: Solid**

Date Received: 09/14/21 13:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7888	09/15/21 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/15/21 12:21	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7930	09/15/21 15:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7905	09/15/21 15:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7938	09/15/21 14:08	CH	XEN MID
Soluble	Analysis	300.0		1			7939	09/15/21 15:00	CH	XEN MID

Client Sample ID: SW02 Lab Sample ID: 890-1252-3

Date Collected: 09/13/21 14:58 **Matrix: Solid** Date Received: 09/14/21 13:27

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7888	09/15/21 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/15/21 12:41	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7930	09/15/21 15:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7905	09/15/21 15:35	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	7938	09/15/21 14:08	СН	XEN MID
Soluble	Analysis	300.0		1			7939	09/15/21 15:06	CH	XEN MID

Client Sample ID: SW03 Lab Sample ID: 890-1252-4 Date Collected: 09/13/21 15:00

Date Received: 09/14/21 13:27

-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7888	09/15/21 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7881	09/15/21 13:02	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7930	09/15/21 15:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7905	09/15/21 15:55	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7938	09/15/21 14:08	CH	XEN MID
Soluble	Analysis	300.0		1			7939	09/15/21 15:11	CH	XEN MID

Eurofins Xenco, Carlsbad

Matrix: Solid

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1252-1 Project/Site: EMSU B 925 SDG: 31403551

Client Sample ID: SW04

Date Received: 09/14/21 13:27

Lab Sample ID: 890-1252-5 Date Collected: 09/13/21 15:02

Matrix: Solid

XEN MID

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 7888 Total/NA Prep 5.03 g 5 mL 09/15/21 11:00 KL XEN MID Total/NA Analysis 8021B 1 5 mL 5 mL 7881 09/15/21 13:22 KL XEN MID Total/NA Prep 8015NM Prep 10.01 g 10 mL 7930 09/15/21 15:00 DM XEN MID Total/NA Analysis 8015B NM 7905 09/15/21 16:16 $\mathsf{A}\mathsf{J}$ XEN MID 5 g Soluble Leach DI Leach 50 mL 7938 09/15/21 14:08 СН XEN MID

7939

09/15/21 15:17

СН

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Laboratory References:

Analysis

Soluble

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

300.0

Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 890-1252-1

 Project/Site: EMSU B 925
 SDG: 31403551

Laboratory: Eurofins Xenco, Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report his	t the laboratory is not certific	ed by the governing authority. This list ma	av include analytee for y
the agency does not of		t the laboratory is not certifi	ed by the governing additionty. This list the	ay include analytes for t
0 ,		Matrix	Analyte	ay include analytes for t
the agency does not of	fer certification.	,	, , ,	ay include analytes for v

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Method Summary

 Client: WSP USA Inc.
 Job ID: 890-1252-1

 Project/Site: EMSU B 925
 SDG: 31403551

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

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Sample Summary

Job ID: 890-1252-1 Client: WSP USA Inc. Project/Site: EMSU B 925

D ID. 030-1232-1	
SDG: 31403551	

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1252-1	FS01	Solid	09/13/21 14:55	09/14/21 13:27	4
890-1252-2	SW01	Solid	09/13/21 14:56	09/14/21 13:27	0 - 4
890-1252-3	SW02	Solid	09/13/21 14:58	09/14/21 13:27	0 - 4
890-1252-4	SW03	Solid	09/13/21 15:00	09/14/21 13:27	0 - 4
890-1252-5	SW04	Solid	09/13/21 15:02	09/14/21 13:27	0 - 4

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1458 1456 455

SW04 SW03 SW02 SW01 FS01

9/13/2021 9/13/2021 9/13/2021 9/13/2021 9/13/2021 Sampled Date

1502

0-4 0-4 0-4' 0-4

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COMPOSITE COMPOSITE COMPOSITE COMPOSITE COMPOSITE

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jject Manager: Tac mpany Name: WS dress: 330 y, State ZIP: Mid one: (33) ject Name: ject Number: D. Number: (33)	oma Mc P USA 0 North land, TX 7) 257-8		uston, TX (281) 240-4200 flidland, TX (432-704-5440) 5-392-7550) Phoenix, AZ (Bill to: (if different) Company Name: Address: City, State ZIP: Email: Alexis Castro@ Turn Around Routine Rush: 24hr Due Date: 9/15/21 pt lce: Yes No	OF DO DAILS OF DO	nain of Cu las.TX (214) 902-0300 Paso.TX (915)585-344 -355-0900) Atlanta.GA Empire WSP 522 W. Mermod St. Carlsbad, NM 88220 p. com Tacoma.Mo	14) 902 ((915)5 0) Atla d, NM	0300 S 85-3443 nta.GA (188220	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000) Empire	09-3334 4-1296 Work (1-296	Work Order No:	Work Order No: Work Order Comments Of Of
	300 North A Street		Company Nan Address:		22 W.	Mermo	od St.		State of Project:	Browl	vniielas KRC Duperiuna
2	lidland, TX 79705		City, State ZIF		arlsba	d, NM	88220		Reporting:Level IIevel		T/UST RRP [evel IV
<u></u>	37) 257-8307	Em	ail: Alexis.Castro	@wsp	.com	Tacon	na.Mor	issey@wsp.com	Deliverables: EDD	ADaP	
\dashv	EMSU B 9		Turn Around						QUEST		Work Order Notes
	3140355		outine []								ID: NAPP2118039585
		RL	ısh: 24hr								API: 30-025-32122
-	Alexis Cas		le Date:9/15/21				_			-	
CEIF			(Yes	s 							
mperature (°C):	1.6/1.4	Thermometer ID	ter ID (ine)	0)				
	(Yes) No	FOCT VM CM	7	nta)	021	300.	890-1	890-1252 Chain of Custody		
oler Custody Seals:	Yes No NA	Correction Factor:	or: -8.2	Co	015	0=8	PA 3	-			TAT starts the day recevied by the
mple Custody Seals	Yes No N/A	Total Containers	ITS:	er of	PA 8	EPA	e (El			_	lab, if received by 4:30pm
dentit	Sample Identification Matrix	Date Time Sampled Sampled	d Depth	Numbe	TPH (EI	BTEX (Chlorid				Sample Comments

Ag SiO2 Na Sr Tl Sn U V Zn

1631 / 245.1 / 7470 / 7471 : Hg

Received by: (Signature)

Date/Time

Revised Date 051418 Rev 2018 1

Eurofins Xenco, Carlsbad

Chain of Custody Record

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*Seurofins | Environment Testing | America

1089 N Canal St. Carlsbad NM 88220	•	Chain o	Chain of Custody Record	tody R	ecc	ă													مر	80	💸 eurofins		Environment Testing
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Client Information (Sub Contract Lab)	Sampler			Lab PM Kramer	~	Jessica	ш						Carrier Tracking No(s)	Tract	ing N	o(s)				390	COC No: 890-406 1		
	Phone:			E-Mail jessio	E-Mail jessica.kramer@eurofinset.com	mer()eun	ofins	환 영	٦			State of Origin: New Mexico	f Orig	8 🖹					Page Page	Page Page 1 of 1		
Company Eurofins Xenco					Accrec	Accreditations Required (See note) NELAP - Louisiana NELAP	s Req	uired (See no	P ĕ	te): P - Texas	L								-068 -4	Job # 890-1252-1		
Address 1211 W Florida Ave	Due Date Requested 9/15/2021	ød							A		alysis Requested	رeq⊢	est	ed						Pre	Preservation Codes	des	
City: Midland	TAT Requested (days):	ays):			inera Li		\neg								_	_) In the second second		HCL NaOH) Z Z	None None
State, Zip: TX 79701					W.	i ansitralikinga													Almona	шο	Nitric Acid	ט ש כא	Na204S Na2SO3
Phone: 432-704-5440(Tel)	PO #.				Y _{estley} id	ГРН	е												and trans		MeOH Amchior	ı o zı	Na2S2O3 H2SO4
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Project Name EMSU B 925	Project #				32,4 140000,310	2900 Hosels	ACH (X											ainen	_ X	EDTA EDA	ΝŞ	v pH 4-5 other (specify)
Site	SSOW#:				9000, 3000, 500,	60.000.0	DI_LI	lc BT											conf	Other:	er.		
		Sample	Sample Type (C=comp,	Matrix (W=water \$=soild,	ld Filtered Sa form MS/MS	5MOD_NM/80*	_ORGFM_28D	1B/6035FP_C					·····						al Number o				
Sample identification - Cilent ID (Fab ID)	Sample Date	/ ime	G=grab)	BT=Tissue, A=Air	y 1000	4	30	80			L	1	1	1					(T		Special	Instr	Special Instructions/Note
	N	X	Preserva	Preservation Code:	X		Entrol (tox)	do-frair			Sec.		إستا	-				i.	X			1	
FS01 (890-1252-1)	9/13/21	14 55 Mountain		Solid		×	×	×											() ()				
SW01 (890-1252-2)	9/13/21	14 56 Mountain		Solid		×	×	×											وكالم			l	
SW02 (890-1252-3)	9/13/21	14 58 Mountain		Solid		×	×	×											1				
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SW04 (890-1252-5)	9/13/21	15 02 Mountain		Solid		×	×	×													***************************************		
								\top												or you be seen			
Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	C places the ownership ix being analyzed the signed Chain of Cu	of method and amples must bu stody attesting	alyte & accredit e shipped back to said complic	ation complian to the Eurofins cance to Eurofi	ce upor Xenco	iout su	ibcont	ract la	borato other i	ries.	This sations w	imple vill be	shipm	ent is	forwa ny cha	rded anges	under to ac	chair credi)-of-c	ousto stat	dy If the laborus should be b	ratory	does not currently it to Eurofins Xenco LLC
Possible Hazard Identification Unconfirmed					ွှ	Sample Disposal (A	le Disposal (A	posa	Clier	fee	nay	∐e a	ses	ed i	sai	nple	Sar		ain	tained long	fee may be assessed if samples are retained longer than 1 month)	1 m	onth)
Deliverable Requested II III IV Other (specify)	Primary Deliverable Rank.	able Rank. 2	12		S	Special Instructions/QC Requirements	Inst	ructio	ins/Q	CRe	ĬĒ.	men	ents			ľ							months
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Custody Seals Intact: Custody Seal No						CO	Cooler Temperature(s)	mpera	ture(s		°C and Other Renders.	- Re	7				ı					-	
						ł			-		1		k		ſ	- [-					Ver 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1252-1 SDG Number: 31403551

List Source: Eurofins Xenco, Carlsbad

Login Number: 1252 List Number: 1 Creator: Clifton, Cloe

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

4

6

0

11

13

14

<6mm (1/4").

Login Sample Receipt Checklist

Job Number: 890-1252-1 SDG Number: 31403551

List Source: Eurofins Xenco, Midland

List Creation: 09/15/21 11:30 AM

Login Number: 1252 List Number: 2

Client: WSP USA Inc.

Creator: Copeland, Tatiana

Question	Answer	Comment
		Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1/ 2.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Eurofins Xenco, Carlsbad

Released to Imaging: 10/13/2021 8:25:21 AM

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

CONDITIONS

Action 51331

CONDITIONS

Operator:	OGRID:
Empire New Mexico LLC	330679
2200 S. Utica Place	Action Number:
Tulsa, OK 74114	51331
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	10/13/2021