

September 14, 2022

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

Re: Remediation Work Plan

Leamex 8

Incident Number NAPP2200641724

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Natural Resources, LLC (Maverick), has prepared the following Remediation Work Plan (RWP) to document the site assessment and soil sampling activities completed to date and proposes a work plan to address the impacted soil identified at the Leamex 8 (Site). The purpose of the site assessment and soil sampling activities was to delineate the vertical extent of impacted soil resulting from a release of produced water at the Site. The following RWP proposes excavation of the impacted soil in the top 4 feet and installation of a depth to water boring to confirm the Closure Critera at the Site.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit M, Section 24, Township 17 South, Range 33 East, in Lea County, New Mexico (32.816111° N, 103.621202° W) and is associated with oil and gas exploration and production operations on New Mexico State Land.

On December 20, 2021, a leak from an underground main injection line resulted in the release of approximately 104 barrels (bbls) of produced water into the pasture area where fluids pooled. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 100 bbls of produced water were recovered. The previous operator (ConocoPhillips Company) reported the release immediately via email to the New Mexico Oil Conservation Division (NMOCD) on December 21, 2021, and submitted a Release Notification Form C-141 (Form C-141) on January 6, 2022. The release was assigned Incident Number NAPP2200641724.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized 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). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants
601 North Marienfeld Street, Suite 400 | Midland, TX 78209 | ensolum.com
Texas PG Firm No. 50588 | Texas PE Firm No. F-21843



Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well L-14594, located approximately 0.9 miles northeast of the Site. The groundwater well has a reported depth to groundwater of 180 feet bgs and a total depth of 300 feet bgs. All wells used for depth to water determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent riverine, located approximately 1,090 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.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On December 29, 2021 and March 16, 2022, personnel completed a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. A total of 10 preliminary soil samples (SS01 through SS10) were collected within the release extent at depths ranging from 0.25 feet to 0.5 feet bgs. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

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

Laboratory analytical results for preliminary soil samples SS02 through SS07 indicated concentrations of chloride exceeded the Site Closure Criteria. Laboratory analytical results for preliminary soil samples SS01 through SS08, and SS10 indicated chloride concentrations exceeded the reclamation



requirement. Laboratory analytical results for preliminary soil sample SS09 indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement.

Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, delineation activities appeared warranted.

Between March 17 and 22, 2022, delineation activities were conducted at the Site to assess the vertical extent of impacted soil. Potholes PH01 through PH06 were advanced via track mounted backhoe within the release extent in the vicinity of preliminary soil samples SS01, SS02, SS04, SS06, SS08 and SS10. The delineation potholes were advanced to depths ranging from 1-foot to 9 feet bgs. Discrete delineation soil samples were collected from each pothole at depths ranging from 1-foot to 9 feet bgs. Soil from the potholes were field screened for VOCs and chloride. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil samples were handled and analyzed as described above. The delineation soil sample locations are depicted on Figure 3.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH06 at depths ranging from 1-foot to 9 feet bgs, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria, but exceeded the reclamation requirement for chloride at depths ranging from the ground surface to 3.5 feet bgs. Laboratory analytical results indicated the Site is vertically delineated to the most stringent Table 1 Closure Criteria in all delineation pothole locations. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D.

PROPOSED REMEDIATION WORK PLAN

While impacted soil has been detected at the ground surface as indicate by preliminary surface soil samples SS02 through SS07 exceeding the Site Closure Criteria, waste containing soil has been identified throughout the release extent to a maximum depth of 3.5 feet bgs as indicated by analytical results in all potholes samples, which concentrations of chloride and/or TPH exceeded the reclamation requirement. As a result, Maverick proposes excavation of impacted and waste-containing soil in the top 4 feet and installation of a depth to water boring to confirm the Closure Critera at the Site.

Maverick requests approval to complete the following remediation activities:

- Excavation of chloride and TPH impacted soil in the top 4 feet. Excavation will proceed laterally
 until sidewall samples confirm chloride and TPH concentrations are compliant with the
 reclamation requirement in the top 4 feet.
- Due to the estimated 14,500 square foot size of the excavation, Maverick requests a variance for frequency of excavation confirmation samples. Maverick proposes the frequency of confirmation sampling for the excavation floor to be decreased from every 200 square feet (approximately 73 samples) to every 500 square feet (approximately 29 samples). Each 5-point composite floor sample will represent a 500 square foot area. Sidewall samples will be collected at a frequency of every 200 square feet. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The excavation samples will be analyzed for BTEX, TPH, and chloride.
- An estimated 2,500 cubic yards of impacted soil will be excavated and disposed of at a licensed disposal facility.
- The excavation will be backfilled and recontoured to match pre-existing conditions. The disturbed pasture will be re-seeded with an approved Bureau of Land Management (BLM) seed mixture.



In order to confirm depth to groundwater is greater than 100 feet bgs at the Site and confirm the applied Closure Criteria, Maverick proposes to complete a depth to water boring within 0.5 miles of the release. The soil boring will be advanced to a depth of approximately 105 feet bgs or until groundwater is encountered. An Ensolum geologist will log and describe soils continuously and will document observations on a lithologic/ soil sampling log. The borehole will be left open for at least 72 hours to allow for the potential slow infill of groundwater. Following the 72-hour waiting period, depth to groundwater will be measured or the Ensolum geologist will confirm the boring is dry. The borehole will be properly abandoned following NMOSE plugging and abandonment procedures. Maverick will include documentation of the soil boring installation and lithologic/ soil sampling log in the subsequent deliverable.

Maverick will complete the excavation activities within 90 days of the date of approval of this RWP by the NMOCD. A report detailing remedial actions will be submitted within 30 days of receipt of laboratory analytical results and completion of drilling activities. The depth to water soil boring will be completed as soon as possible following approval from the surface landowner (New Mexico State Land Office), receipt of the NMOSE drilling permit, and scheduling with a driller, which could impact the time to drill based on availability.

Maverick believes the scope of work described above will meet requirements set forth in 19.15.29.13 NMAC and are protective of human health, the environment, and groundwater. As such, Maverick respectfully requests approval of this RWP from NMOCD.

If you have any questions or comments, please contact Ms. Kalei Jennings at (817) 683-2503 or kjennings@ensolum.com.

Sincerely, Ensolum, LLC

Hadlie Green Staff Geologist Kalei Jennings Senior Scientist

cc: Bryce Wagoner, Maverick Natural Resources

New Mexico State Land Office

Appendices:

Figure 1 Site Location Map

Figure 2 Preliminary Soil Sample Locations
Figure 3 Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

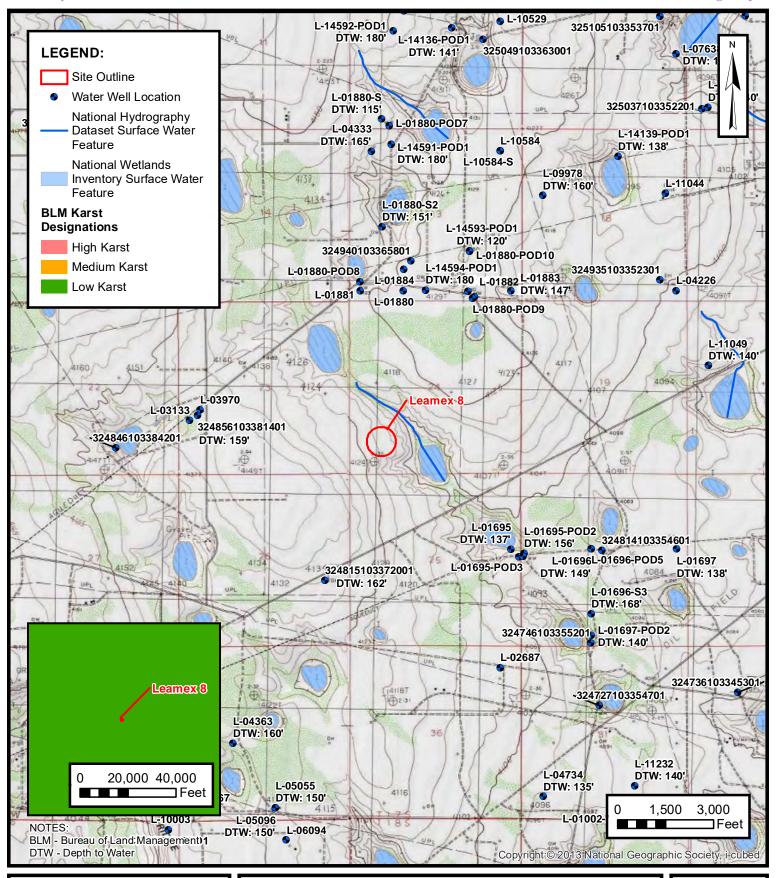
Appendix B Photographic Log

Appendix C Lithologic / Soil Sampling Logs

Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation



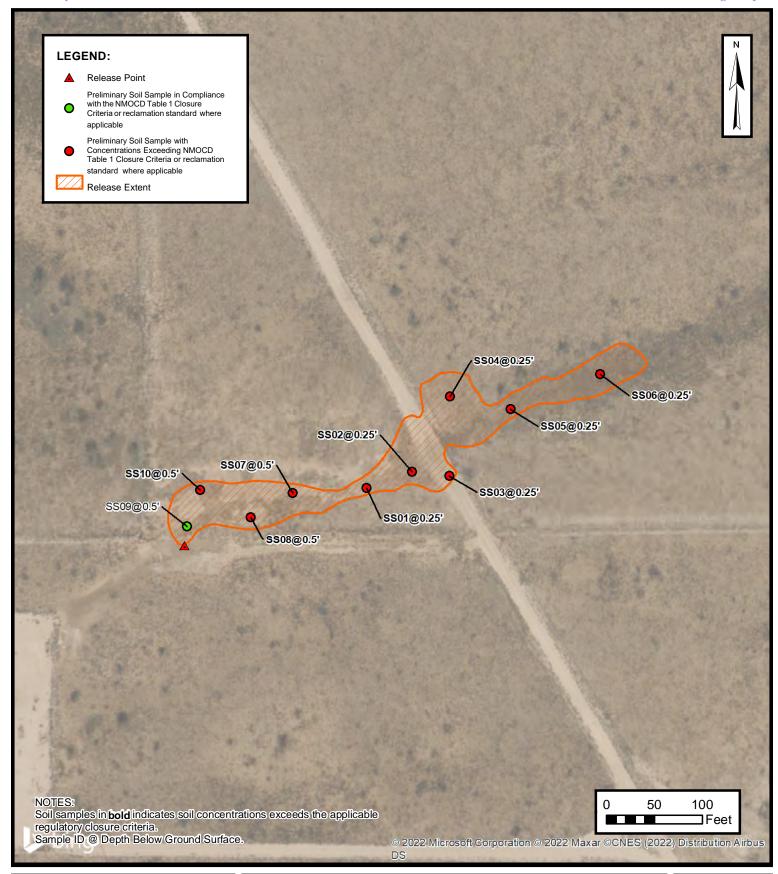
FIGURES





SITE RECEPTOR MAP

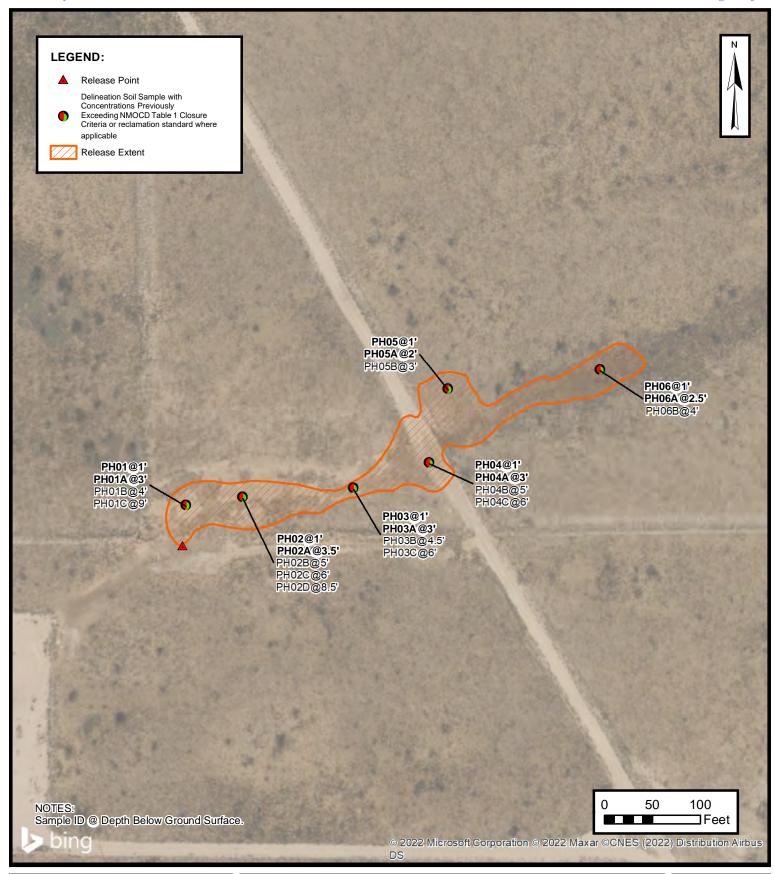
MAVERICK NATURAL RESOURCES, LLC LEAMEX 8 NAPP2200641724 Unit M, Sec 24, T17S, R33E Lea County, New Mexico **FIGURE**





PRELIMINARY SOIL SAMPLE LOCATIONS

MAVERICK NATURAL RESOURCES, LLC LEAMEX 8 NAPP2200641724 Unit M, Sec 24, T17S, R33E Lea County, New Mexico **FIGURE**





DELINEATION SOIL SAMPLE LOCATIONS

MAVERICK NATURAL RESOURCES, LLC LEAMEX 8 NAPP2200641724 Unit M, Sec 24, T17S, R33E Lea County, New Mexico **FIGURE**



TABLES

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Leamex 8 ConocoPhillips Company Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Preliminar	ry Assessment So	oil Samples				
SS01	12/29/2021	0.25	<0.0402	<0.0805	<49.9	<49.9	<49.9	<49.9	<49.9	19,300*
SS02	12/29/2021	0.25	0.042	0.129	<49.9	<49.9	<49.9	<49.9	<49.9	29,400*
SS03	12/29/2021	0.25	<0.0402	<0.0803	<50.0	<50.0	<50.0	<50.0	<50.0	40,500*
SS04	12/29/2021	0.25	<0.0396	<0.0792	<50.0	<50.0	<50.0	<50.0	<50.0	24,100*
SS05	12/29/2021	0.25	<0.0398	<0.0795	<50.0	<50.0	<50.0	<50.0	<50.0	31,800*
SS06	12/29/2021	0.25	<0.0398	<0.0795	<49.9	<49.9	<49.9	<49.9	<49.9	22,400*
SS07	03/16/2022	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	22,700*
SS08	03/16/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	17,500*
SS09	03/16/2022	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	21.3*
SS10	03/16/2022	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	16,100*
				Del	ineation Soil Sam	ples				
PH01	03/17/2022	1	<0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	6,440*
PH01A	03/21/2022	3	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	5,140*
PH01B	03/21/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,480
PH01C	03/22/2022	9	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	593
PH02	03/17/2022	1	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	5,470*
PH02A	03/21/2022	3.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	797*
PH02B	03/21/2022	5	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	3,000
PH02C	03/22/2022	6	<0.00198	< 0.00396	<50.0	<50.0	71.6	<50.0	71.6	1,810
PH02D	03/22/2022	8.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	67.1
PH03	03/17/2022	1	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	7,450*
PH03A	03/21/2022	3	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	3,250*
PH03B	03/21/2022	4.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	1,270
PH03C	03/21/2022	6	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	504
PH04	03/17/2022	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	9,160*
PH04A	03/17/2022	3	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,650*
PH04B	03/17/2022	5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	329
PH04C	03/21/2022	6	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	124

Ensolum 1 of 2

Received by OCD: 9/16/2022 1:49:10 PM



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS

Leamex 8
ConocoPhillips Company
Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)		10	50	NE	NE	NE	1,000	2,500	20,000	
PH05	03/22/2022	1	<0.00200	<0.00401	<49.7	136	<49.7	136	136*	34.7*
PH05A	03/22/2022	2	<0.00200	<0.00401	<50.0	97.8	<50.0	97.8	97.8	68.5*
PH05B	03/22/2022	3	<0.00202	<0.00404	<49.9	63.8	<49.9	63.8	63.8	53.0*
PH06	03/17/2022	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	5,580*
PH06A	03/22/2022	2.5	<0.00201	<0.00402	<49.9	73.0	<49.9	73.0	73.0	1,980*
PH06B	03/22/2022	4	<0.00199	<0.00398	<49.8	50.4	<49.8	50.4	50.4	372

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text represents samples that have been excavated

Ensolum 2 of 2

^{*} indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard for chloride in the top 4 feet is 600 mg/kg



APPENDIX A

Referenced Well Records



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

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

Casing Perforations:

 \mathbf{X}

NA

L 14594 POD1

1261

3 13 17S 33E

629387

DARRELL CRASS DRILLING CO., INC

3633116

Driller License:

Drill Start Date:

Driller Company:

Driller Name: CRASS, DARRELL

02/25/2019

Drill Finish Date:

02/28/2019

Plug Date:

Shallow

Log File Date:

05/13/2019

PCW Rcv Date:

Source: **Estimated Yield:**

Sandstone/Gravel/Conglomerate

Pump Type: Casing Size: Pipe Discharge Size: Depth Well:

300 feet Depth Water:

180 feet

Water Bearing Stratifications:

8.62

Top Bottom Description 180

260

Sandstone/Gravel/Conglomerate 200 Sandstone/Gravel/Conglomerate

Top Bottom

160 260

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

240

12/29/21 11:30 AM

POINT OF DIVERSION SUMMARY



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources	(Cooperator Access)	Data Category:		Geographic Area:		
obdb Water Resources	(Cooperator Access)	Site Information	~	United States	~	GO

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access realtime water data from over 13,500 stations nationwide.
- Full News

USGS 324856103381401 17S.33E.23.313242

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

Well Site

DESCRIPTION:

Latitude 32°49'04", Longitude 103°38'24" NAD27 Lea County, New Mexico , Hydrologic Unit 13070007

Well depth: 230 feet

Land surface altitude: 4,144.60 feet above NGVD29.

Well completed in "High Plains aquifer" (N100HGHPLN) national aquifer.

Well completed in "Ogallala Formation" (1210GLL) local aquifer

AVAILABLE DATA:

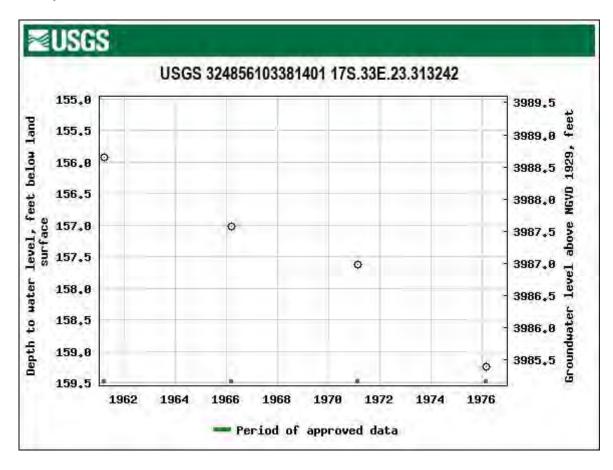
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1961-03-10	1976-03-02	4
Revisions	Unavailable (site:0) (timese	eries:0)

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
Subscribe for system changes
News

Released to Imaging: 9/21/2022 11:05:49 AM





APPENDIX B

Photographic Log



Photographic Log

Maverick Natural Resources, LLC Leamex 8 Incident Number NAPP2200641724



Photograph 1

Date: December 29, 2021

Description: Photo of release extent taken during initial assessment. Description: Photo of release extent taken during initial assessment.



Photograph 2

Date: December 29, 2021



Photograph 3

Date: March 17, 2022

Description: Photo of PH01 taken during delineation activities.



Photograph 4

Date: March 22, 2022

Description: Photo of PH05 taken during delineation activities.



APPENDIX C

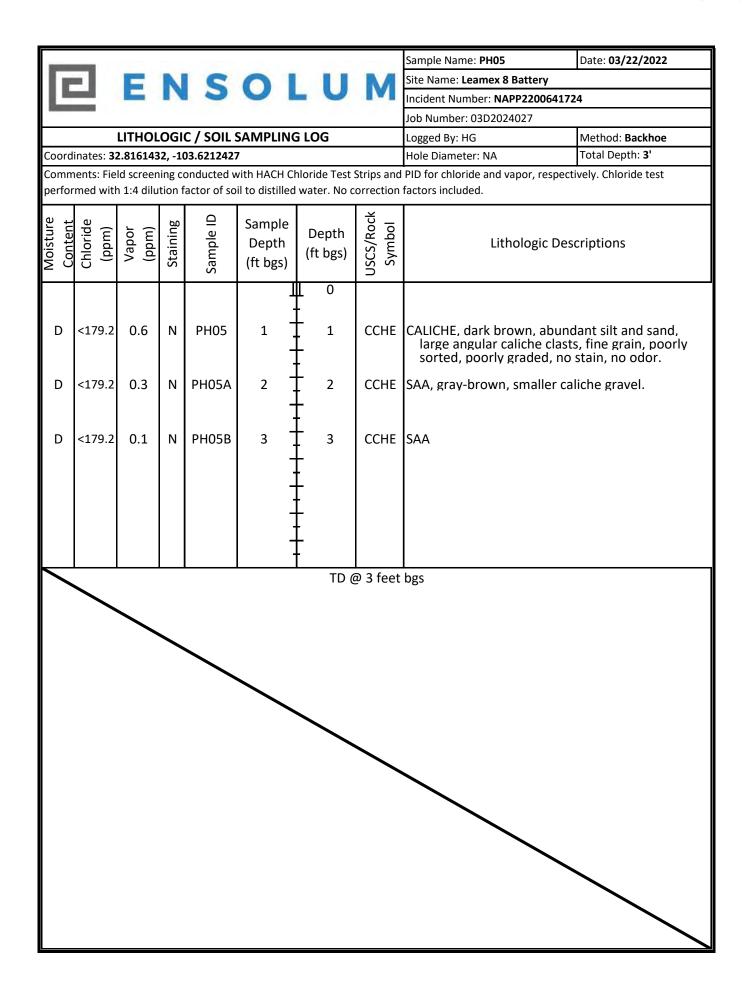
Lithologic Soil Sampling Logs

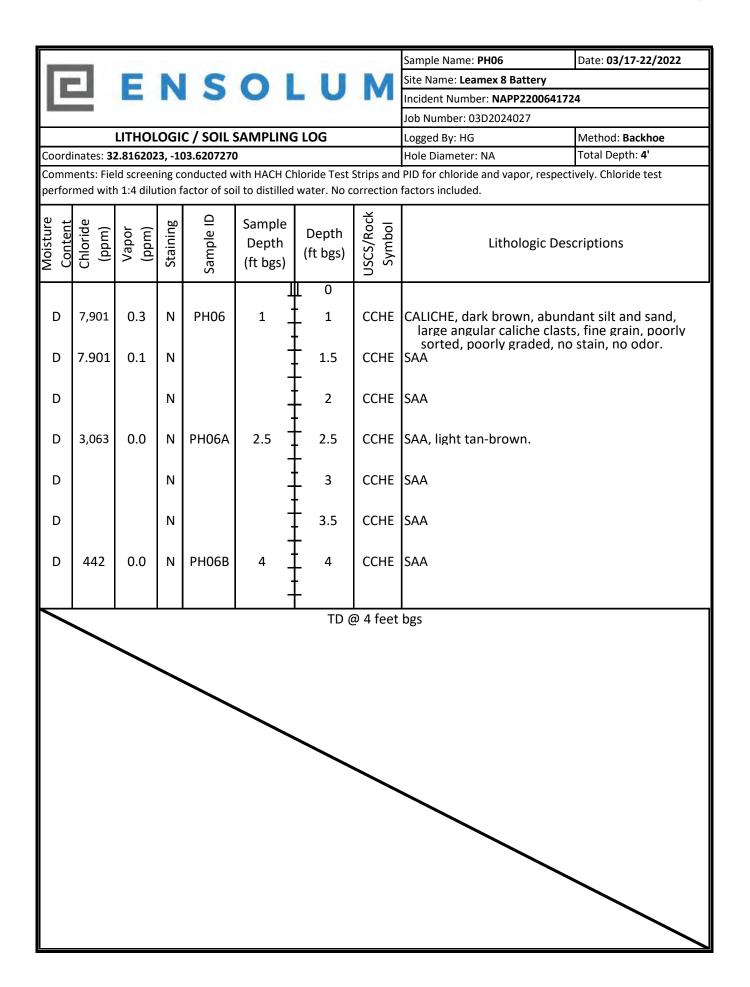
								Sample Name: PH01	Date: 03/17-22/2022
Б	7		M	10	01		BA	Site Name: Leamex 8 Battery	
					OL	_ U	V	Incident Number: NAPP220064172	24
100								Job Number: 03D2024027	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: HG	Method: Backhoe
Coord				03.6221005				Hole Diameter: NA	Total Depth: 10'
Comm	nents: Fie	ld screen	ing c	onducted w	ith HACH Ch	loride Test	Strips and	PID for chloride and vapor, respect	tively. Chloride test
perfor	med with	n 1:4 dilu	tion f	actor of so	il to distilled	water. No c	orrection	factors included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	scriptions
						0			
D	11,536	0.0	N	PH01	1 -	1 -	ССНЕ	CALICHE, dark brown, abund large angular caliche clast sorted, poorly graded, no	s, fine grain, poorly
D	14,604	0.2	N		-	2	CCHE	SAA, more white sand.	
D	9,184	0.0	N	PH01A	3 -	- - - -	ССНЕ	SAA	
D	4,183	0.0	N	PH01B	4	- - 4	ССНЕ	SAA, light tan-brown.	
D	6,787	0.0	N		-	- - - -	ССНЕ	SAA, light tan-gray.	
D	3,354	0.0	N		-	- - -	CCHE	SAA	
D			N		- - -	- - - -	ССНЕ	SAA, more silt and sand, less	s caliche gravel.
D	4,944	0.0	N		- - -	- - -	SP-SM	SAND, light tan, abundant si small to large angular clas poorly graded, fine grain,	sts, poorly sorted,
D	683.2	0.0	N	PH01C	9	- - -	SP-SM		
					- - -	- - 10			
						TD @	9 feet l	ogs	
1									

								Sample Name: PH02	Date: 03/17-22/2022
	7		N	10	OI		RA	Site Name: Leamex 8 Battery	•
12			IN		OL	_ U		Incident Number: NAPP220064172	24
								Job Number: 03D2024027	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: HG	Method: Backhoe
Coord	inates: 3 2	2.815843	0, -10	3.6219262	2			Hole Diameter: NA	Total Depth: 8.5'
			_				•	PID for chloride and vapor, respect factors included.	ively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions
					1	0			
D	9,906	0.1	N	PH02	1 -	- - - -	ССНЕ	CALICHE, dark brown, abund large angular caliche clast sorted, poorly graded, no	s, fine grain, poorly
D			N		- -	2 	CCHE	SAA, more white sand.	
D			N		-	3	ССНЕ	SAA	
	11,536	0.0	N	PH02A	3.5	3.5	CCHE	CALICHE, light tan-dark brov	
D			N		4 -	- 4	CCHE	sand, smaller angular clas poorly sorted, no stain, no	ts, poorly graded,
			.,			- · -	CONE	poorty sorted, no stain, ne	oud.
					-	-			
D	4,944	0.0	Ν	PH02B	5 .	5	CCHE	SAA	
D	3,505	0.0	N		-	5.5	CCHE	SAA, light gray-tan.	
D	3,830	0.0	N	PH02C	6	- 6	ССНЕ	S ΔΔ	
	3,030	0.0	14	111020	_	-	CCITE		
D			N		- - - -	- - - -	ССНЕ	SAA, more silt and sand, less	s caliche gravel.
D	896	0.0	N		- - -	- 8 -	SP-SM	SAND, light tan, abundant si small to large angular clas poorly graded, fine grain,	ts, poorly sorted,
D	<179.2	0.0	N	PH02D	8.5	8.5	SP-SM	SAA	
						_			
					7	-			
					_	_			
						TD @	8.5 fee	t bgs	

								lo Lu Bues	D : 00/47 04/2000
								Sample Name: PH03	Date: 03/17-21/2022
		E	N	S	OI	_ U	M	Site Name: Leamex 8 Battery Incident Number: NAPP2200641	724
_	- 20							Job Number: 03D2024027	./24
		LITHO	OG	r / sou s	SAMPLING	2106			Method: Backhoe
Coord				3.6215582		LOG		Logged By: HG Hole Diameter: NA	Total Depth: 6'
						oloride Test	Strins and	PID for chloride and vapor, respe	
			_					factors included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Do	escriptions
					1	0			
D	14,604	0.2	N	PH03	1 -	1	ССНЕ	CALICHE, light tan, abunda large angular caliche cla sorted, poorly graded, n	sts, fine grain, poorly
D			N		_	_ 2	CCHE	SAA, more white sand.	
D	5,807	0.1	N	PH03A	3	- - - 3	ССНЕ	SAA	
		• • •			_	-			
					_	_			
D			N		4	4	CCHE	SAA	
D	2,895	0.0	N	PH03B	4.5	4.5			
D			N		_	_ _ 5	ССНЕ	SAA	
D	1,058	0.0	N		_	5.5	ССНЕ	SAA, light tan-white.	
D	1,646	0.0	N	PH03C	6	6	ССНЕ		
	1,040	0.0	IN	FHUSC		_ 0	CCHE	JAA	
					_	=			
					_	- -			
					_	_			
					_	-			
					-	- -			
					-	-			
					_	- -			
					_	L			
						TD @	9 6 feet	bgs	
			_						
								_	
1									

								T				
100	-							Sample Name: PH04	Date: 03/17-21/2022			
II E			N	S	OL		M	Site Name: Leamex 8 Battery				
			-					Incident Number: NAPP2200641	724			
								Job Number: 03D2024027				
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: HG	Method: Backhoe			
				03.6213032				Hole Diameter: NA	Total Depth: 6'			
			_					PID for chloride and vapor, respe factors included.	ctively. Chloride test			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions			
					<u> </u>	0						
D	14,604	0.1	N	PH04	1 . -	- - - 1 -	ССНЕ	CALICHE, dark brown, abui large angular caliche clas sorted, poorly graded, n	sts, fine grain, poorly			
D	7,901	0.0	Ν			_ 2	CCHE	SAA				
D	7,901	0.0	N		_	2.5	ССНЕ	SAA				
D	4,944	0.0	Ν	PH04A	3	3	CCHE	SAA, white-light tan, trace	roots.			
D	1,657	0.0	Ν		- - - -	- - - 4	ССНЕ	CHE SAA, white-light tan, trace roots. CHE SAA, no roots.				
D	560	0.0	N	PH04B	5 -	- - -	CCHE	SAA, smaller caliche gravel	, more silt and sand.			
D	212.8	0.0	Z	PH04C	6 -	6	ССНЕ	CALICHE, white-light tan, a abundant angular caliche fine grain, poorly graded	e gravel, poorly sorted,			
		_				TD @	9 6 feet	bgs				







APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1782-1

Laboratory Sample Delivery Group: 31403720.000 task 27.02

Client Project/Site: Leamex 8 Battery

For:

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

Attn: Kalei Jennings

JURAMER

Authorized for release by: 1/7/2022 11:12:32 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

TOTAL PROCESS

Have a Question?



Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 9/21/2022 11:05:49 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: Leamex 8 Battery Laboratory Job ID: 890-1782-1 SDG: 31403720.000 task 27.02

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Definitions/Glossary

 Client: WSP USA Inc.
 Job ID: 890-1782-1

 Project/Site: Leamex 8 Battery
 SDG: 31403720.000 task 27.02

Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control

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

DDES Procumptive

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Xenco

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Case Narrative

Client: WSP USA Inc.

Job ID: 890-1782-1

Project/Site: Leamex 8 Battery

SDG: 31403720.000 task 27.02

Job ID: 890-1782-1

Laboratory: Eurofins Xenco

Narrative

Job Narrative 890-1782-1

Receipt

The samples were received on 12/29/2021 3:28 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 1.0°C

GC VOA

Method 8021B: The following samples were diluted due to the nature of the sample matrix: SS01 (890-1782-1) and SS02 (890-1782-2) at 20.0 and 20.0. Elevated reporting limits (RLs) are provided.

Method 8021B: 4-Bromofluorobenzene recovery for the following samples were outside control limits: SS01 (890-1782-1) and SS02 (890-1782-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The following samples were diluted due to the nature of the sample matrix: SS03 (890-1782-3), SS04 (890-1782-4), SS05 (890-1782-5) and SS06 (890-1782-6) at 20.0, 20.0, 20.0 and 20.0. Elevated reporting limits (RLs) are provided.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15881 and analytical batch 880-15940 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15882 and analytical batch 880-15874 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-1782-1), SS02 (890-1782-2), SS03 (890-1782-3), SS04 (890-1782-4), SS05 (890-1782-5) and SS06 (890-1782-6). 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: 890-1782-1

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1782-1

 Project/Site: Leamex 8 Battery
 SDG: 31403720.000 task 27.02

Client Sample ID: SS01

Date Collected: 12/29/21 08:58 Date Received: 12/29/21 15:28

Sample Depth: 0.25

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0402	U	0.0402	mg/Kg		01/03/22 10:15	01/04/22 00:22	20
Toluene	0.0719		0.0402	mg/Kg		01/03/22 10:15	01/04/22 00:22	20
Ethylbenzene	<0.0402	U	0.0402	mg/Kg		01/03/22 10:15	01/04/22 00:22	20
m-Xylene & p-Xylene	<0.0805	U	0.0805	mg/Kg		01/03/22 10:15	01/04/22 00:22	20
o-Xylene	<0.0402	U	0.0402	mg/Kg		01/03/22 10:15	01/04/22 00:22	20
Xylenes, Total	<0.0805	U	0.0805	mg/Kg		01/03/22 10:15	01/04/22 00:22	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			01/03/22 10:15	01/04/22 00:22	20
1,4-Difluorobenzene (Surr)	87		70 - 130			01/03/22 10:15	01/04/22 00:22	20
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0805	U	0.0805	mg/Kg			01/05/22 13:44	1
Method: 8015 NM - Diesel Range			DI.	I I mi A	Б	Drawayad	Amalumad	Dil Foo
: Method: 8015 NM - Diesel Range Analyte		O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
_		Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/05/22 14:19	
Analyte		Qualifier U			<u>D</u>	Prepared		
Analyte Total TPH	Result <49.9 ge Organics (Di	Qualifier U			<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (Di	Qualifier U RO) (GC) Qualifier	49.9	mg/Kg		· · ·	01/05/22 14:19	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ge Organics (Di Result	Qualifier U RO) (GC) Qualifier U	49.9	mg/Kg		Prepared	01/05/22 14:19 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D) Result <49.9 49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9	mg/Kg Unit mg/Kg		Prepared 01/03/22 10:55	01/05/22 14:19 Analyzed 01/03/22 22:51	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/03/22 10:55 01/03/22 10:55	01/05/22 14:19 Analyzed 01/03/22 22:51 01/03/22 22:51	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/03/22 10:55 01/03/22 10:55	Analyzed 01/03/22 22:51 01/03/22 22:51 01/03/22 22:51	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/03/22 10:55 01/03/22 10:55 01/03/22 10:55 Prepared	Analyzed 01/03/22 22:51 01/03/22 22:51 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U RO) (GC) Qualifier U U Qualifier S1+ S1+	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/03/22 10:55 01/03/22 10:55 01/03/22 10:55 Prepared 01/03/22 10:55	Analyzed 01/03/22 22:51 01/03/22 22:51 Analyzed 01/03/22 22:51 01/03/22 22:51	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U RO) (GC) Qualifier U U Qualifier S1+ S1+	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/03/22 10:55 01/03/22 10:55 01/03/22 10:55 Prepared 01/03/22 10:55	Analyzed 01/03/22 22:51 01/03/22 22:51 Analyzed 01/03/22 22:51 01/03/22 22:51	Dil Fac Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: SS02

Date Collected: 12/29/21 09:00 Date Received: 12/29/21 15:28

Sample Depth: 0.25

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0417		0.0402	mg/Kg		01/03/22 10:15	01/04/22 00:43	20
Toluene	0.0874		0.0402	mg/Kg		01/03/22 10:15	01/04/22 00:43	20
Ethylbenzene	<0.0402	U	0.0402	mg/Kg		01/03/22 10:15	01/04/22 00:43	20
m-Xylene & p-Xylene	<0.0805	U	0.0805	mg/Kg		01/03/22 10:15	01/04/22 00:43	20
o-Xylene	<0.0402	U	0.0402	mg/Kg		01/03/22 10:15	01/04/22 00:43	20
Xylenes, Total	<0.0805	U	0.0805	mg/Kg		01/03/22 10:15	01/04/22 00:43	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			01/03/22 10:15	01/04/22 00:43	20

Eurofins Xenco

Matrix: Solid

Lab Sample ID: 890-1782-2

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1782-1 Project/Site: Leamex 8 Battery SDG: 31403720.000 task 27.02

Client Sample ID: SS02

Date Collected: 12/29/21 09:00 Date Received: 12/29/21 15:28

Sample Depth: 0.25

	Matrix:	Solid

Lab Sample ID: 890-1782-2

Method: 8021B - Volatile Organic	Compounds (GC) (Conti	nued)			
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	89	70 - 130	01/03/22 10:15	01/04/22 00:43	20

Method: Total BTEX - Total BTEX C	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.129		0.0805	mg/Kg			01/05/22 13:44	1

Method: 8015 NM - Diesel Range (Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			01/05/22 14:19	1

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/03/22 10:55	01/03/22 23:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/03/22 10:55	01/03/22 23:11	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/03/22 10:55	01/03/22 23:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130			01/03/22 10:55	01/03/22 23:11	1

o-Terphenyl	144 S1+	70 - 130		01/03/22 10:55	01/03/22 23:11	1
Method: 300.0 - Anions, Ion Chromatogra	aphy - Soluble					
Δnalvto	Posult Qualifier	RI	Unit F) Prenared	Δnalyzed	Dil Fac

250 mg/Kg 01/04/22 10:45 Chloride 29400 **Client Sample ID: SS03** Lab Sample ID: 890-1782-3

Date Collected: 12/29/21 09:02 Date Received: 12/29/21 15:28

Sample Depth: 0.25

Mathadi 0004D	Valatile Overen	ic Compounds (GC)
Memoo: Auzib	- voianie Urdan	ic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0402	U	0.0402	mg/Kg		01/03/22 16:00	01/04/22 15:23	20
Toluene	<0.0402	U	0.0402	mg/Kg		01/03/22 16:00	01/04/22 15:23	20
Ethylbenzene	<0.0402	U	0.0402	mg/Kg		01/03/22 16:00	01/04/22 15:23	20
m-Xylene & p-Xylene	<0.0803	U	0.0803	mg/Kg		01/03/22 16:00	01/04/22 15:23	20
o-Xylene	<0.0402	U	0.0402	mg/Kg		01/03/22 16:00	01/04/22 15:23	20
Xylenes, Total	<0.0803	U	0.0803	mg/Kg		01/03/22 16:00	01/04/22 15:23	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			01/03/22 16:00	01/04/22 15:23	20
1,4-Difluorobenzene (Surr)	84		70 - 130			01/03/22 16:00	01/04/22 15:23	20

Method: Total BTEX - Total BTEX C	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0803	U	0.0803	mg/Kg			01/05/22 13:44	1

Method: 8015 NM - Diesel Range C	rganics (DRO) (GC)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			01/05/22 14:19	1

Eurofins Xenco

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-1782-3

Client: WSP USA Inc. Job ID: 890-1782-1 Project/Site: Leamex 8 Battery SDG: 31403720.000 task 27.02

Client Sample ID: SS03

Date Collected: 12/29/21 09:02 Date Received: 12/29/21 15:28

Sample Depth: 0.25

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/03/22 10:55	01/03/22 23:32	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/03/22 10:55	01/03/22 23:32	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 10:55	01/03/22 23:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130			01/03/22 10:55	01/03/22 23:32	1
o-Terphenyl	152	S1+	70 - 130			01/03/22 10:55	01/03/22 23:32	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-1782-4 **Client Sample ID: SS04** Date Collected: 12/29/21 09:05 Matrix: Solid

Date Received: 12/29/21 15:28

Sample Depth: 0.25

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0396	U	0.0396	mg/Kg		01/03/22 16:00	01/04/22 15:43	20
Toluene	< 0.0396	U	0.0396	mg/Kg		01/03/22 16:00	01/04/22 15:43	20
Ethylbenzene	< 0.0396	U	0.0396	mg/Kg		01/03/22 16:00	01/04/22 15:43	20
m-Xylene & p-Xylene	< 0.0792	U	0.0792	mg/Kg		01/03/22 16:00	01/04/22 15:43	20
o-Xylene	< 0.0396	U	0.0396	mg/Kg		01/03/22 16:00	01/04/22 15:43	20
Xylenes, Total	<0.0792	U	0.0792	mg/Kg		01/03/22 16:00	01/04/22 15:43	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			01/03/22 16:00	01/04/22 15:43	20
1,4-Difluorobenzene (Surr)	91		70 - 130			01/03/22 16:00	01/04/22 15:43	20
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0792	U	0.0792	mg/Kg			01/05/22 13:44	1
Total BTEX Method: 8015 NM - Diesel Range			0.0792	mg/Kg			01/05/22 13:44	1
- ^{***} -	Organics (DR		0.0792	mg/Kg		Prepared	01/05/22 13:44 Analyzed	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC) Qualifier			<u>D</u>	Prepared		Dil Fac
Method: 8015 NM - Diesel Range Analyte	Organics (DR/Result <50.0	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	Organics (DR Result <50.0	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Organics (DR Result <50.0	Qualifier U RO) (GC) Qualifier	RL 50.0	Unit mg/Kg			Analyzed 01/05/22 14:19	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Organics (DR/Result < 50.0 e Organics (DR/Result < 50.0	Qualifier U RO) (GC) Qualifier U U	RL 50.0	Unit mg/Kg Unit mg/Kg		Prepared 01/03/22 10:55	Analyzed 01/05/22 14:19 Analyzed 01/03/22 23:52	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Organics (DR/Result <50.0	Qualifier U RO) (GC) Qualifier U U		Unit mg/Kg		Prepared	Analyzed 01/05/22 14:19 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Organics (DR/Result < 50.0 e Organics (DR/Result < 50.0	Qualifier U RO) (GC) Qualifier U U U U	RL 50.0	Unit mg/Kg Unit mg/Kg		Prepared 01/03/22 10:55	Analyzed 01/05/22 14:19 Analyzed 01/03/22 23:52	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Organics (DR Result	Qualifier U RO) (GC) Qualifier U U U U	RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 01/03/22 10:55 01/03/22 10:55	Analyzed 01/05/22 14:19 Analyzed 01/03/22 23:52 01/03/22 23:52	Dil Fac Dil Fac 1 Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Organics (DR/Result < 50.0 Result < 50.0 Result < 50.0 Color	Qualifier U RO) (GC) Qualifier U U U U	RL 50.0 RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 01/03/22 10:55 01/03/22 10:55	Analyzed 01/05/22 14:19 Analyzed 01/03/22 23:52 01/03/22 23:52	Dil Fac Dil Fac 1

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Job ID: 890-1782-1

SDG: 31403720.000 task 27.02

Project/Site: Leamex 8 Battery

Lab Sample ID: 890-1782-4

Matrix: Solid

Client Sample ID: SS04

Date Collected: 12/29/21 09:05 Date Received: 12/29/21 15:28

Sample Depth: 0.25

Client: WSP USA Inc.

Method: 300.0 - Anions, Ion Chroma	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24100	F1	250	mg/Kg			01/04/22 11:00	50

Client Sample ID: SS05 Lab Sample ID: 890-1782-5 Matrix: Solid

Date Collected: 12/29/21 09:08

Date Received: 12/29/21 15:28

Sample Depth: 0.25

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.0398	U	0.0398	mg/Kg		01/03/22 16:00	01/04/22 16:04	20
Toluene	<0.0398	U	0.0398	mg/Kg		01/03/22 16:00	01/04/22 16:04	20
Ethylbenzene	<0.0398	U	0.0398	mg/Kg		01/03/22 16:00	01/04/22 16:04	20
m-Xylene & p-Xylene	<0.0795	U	0.0795	mg/Kg		01/03/22 16:00	01/04/22 16:04	20
o-Xylene	<0.0398	U	0.0398	mg/Kg		01/03/22 16:00	01/04/22 16:04	20
Xylenes, Total	<0.0795	U	0.0795	mg/Kg		01/03/22 16:00	01/04/22 16:04	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	111		70 - 130			01/03/22 16:00	01/04/22 16:04	20
1,4-Difluorobenzene (Surr)	91		70 - 130			01/03/22 16:00	01/04/22 16:04	20
· Method: Total BTEX - Total BTE)	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0795	U	0.0795	mg/Kg			01/05/22 13:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/05/22 14:19	1
Method: 8015B NM - Diesel Rang	ne Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/03/22 10:55	01/04/22 00:12	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/03/22 10:55	01/04/22 00:12	1
C10-C28)			50.0			04/00/00 40 55	0.4.0.4.00.00.40	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 10:55	01/04/22 00:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	138	S1+	70 - 130			01/03/22 10:55	01/04/22 00:12	1
o-Terphenyl	144	S1+	70 - 130			01/03/22 10:55	01/04/22 00:12	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31800		250	mg/Kg	_		01/04/22 11:24	50

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Client Sample Results

Job ID: 890-1782-1 Client: WSP USA Inc. Project/Site: Leamex 8 Battery SDG: 31403720.000 task 27.02

Client Sample ID: SS06

Lab Sample ID: 890-1782-6

Date Collected: 12/29/21 09:10 Date Received: 12/29/21 15:28 Matrix: Solid

Sample Depth: 0.25

Analyte	c Compounds (Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U	0.0398	mg/Kg		01/03/22 16:00	01/04/22 16:24	20
Toluene	<0.0398	U	0.0398	mg/Kg		01/03/22 16:00	01/04/22 16:24	20
Ethylbenzene	<0.0398	U	0.0398	mg/Kg		01/03/22 16:00	01/04/22 16:24	20
m-Xylene & p-Xylene	<0.0795	U	0.0795	mg/Kg		01/03/22 16:00	01/04/22 16:24	20
o-Xylene	<0.0398	U	0.0398	mg/Kg		01/03/22 16:00	01/04/22 16:24	20
Xylenes, Total	<0.0795	U	0.0795	mg/Kg		01/03/22 16:00	01/04/22 16:24	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			01/03/22 16:00	01/04/22 16:24	20
1,4-Difluorobenzene (Surr)	90		70 - 130			01/03/22 16:00	01/04/22 16:24	20
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0795	U	0.0795	mg/Kg			01/05/22 13:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
_		O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/05/22 14:19	Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U			<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (Di	Qualifier U			<u>D</u>	Prepared Prepared		Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <49.9 ge Organics (Di	Qualifier U RO) (GC) Qualifier	49.9	mg/Kg	_ =		01/05/22 14:19	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ge Organics (Di Result	Qualifier U RO) (GC) Qualifier U	49.9	mg/Kg	_ =	Prepared	01/05/22 14:19 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D) Result <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9	mg/Kg Unit mg/Kg	_ =	Prepared 01/03/22 10:55	01/05/22 14:19 Analyzed 01/04/22 00:32	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/03/22 10:55 01/03/22 10:55	01/05/22 14:19 Analyzed 01/04/22 00:32 01/04/22 00:32	1 Dil Fac 1 1
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/03/22 10:55 01/03/22 10:55	Analyzed 01/04/22 00:32 01/04/22 00:32	1 Dil Fac 1
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U RO) (GC) Qualifier U U Qualifier S1+	49.9 RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/03/22 10:55 01/03/22 10:55 01/03/22 10:55 Prepared	Analyzed 01/04/22 00:32 01/04/22 00:32 01/04/22 00:32 Analyzed	Dil Fac 1 1 Dil Fac Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	Result <49.9	Qualifier U RO) (GC) Qualifier U U Qualifier S1+ S1+	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/03/22 10:55 01/03/22 10:55 01/03/22 10:55 Prepared 01/03/22 10:55	Analyzed 01/04/22 00:32 01/04/22 00:32 01/04/22 00:32 Analyzed 01/04/22 00:32	1 Dil Fac 1 1 1 1 Dil Fac 1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U RO) (GC) Qualifier U U Qualifier S1+ S1+	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/03/22 10:55 01/03/22 10:55 01/03/22 10:55 Prepared 01/03/22 10:55	Analyzed 01/04/22 00:32 01/04/22 00:32 01/04/22 00:32 Analyzed 01/04/22 00:32	1 Dil Fac 1 1 1 1 Dil Fac 1

Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-1782-1

 Project/Site: Leamex 8 Battery
 SDG: 31403720.000 task 27.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-9761-A-1-F MS	Matrix Spike	105	103	
880-9761-A-1-G MSD	Matrix Spike Duplicate	115	112	
880-9776-A-1-B MS	Matrix Spike	117	112	
880-9776-A-1-C MSD	Matrix Spike Duplicate	112	102	
890-1782-1	SS01	107	87	
890-1782-2	SS02	115	89	
890-1782-3	SS03	112	84	
890-1782-4	SS04	116	91	
890-1782-5	SS05	111	91	
890-1782-6	SS06	113	90	
LCS 880-15880/1-A	Lab Control Sample	110	104	
LCS 880-15881/1-A	Lab Control Sample	113	105	
LCSD 880-15880/2-A	Lab Control Sample Dup	104	99	
LCSD 880-15881/2-A	Lab Control Sample Dup	114	104	
MB 880-15880/5-A	Method Blank	118	104	
MB 880-15881/5-A	Method Blank	123	104	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
-1780-A-1-D MS	Matrix Spike	118	113	
-1780-A-1-E MSD	Matrix Spike Duplicate	119	117	
1782-1	SS01	165 S1+	166 S1+	
1782-2	SS02	140 S1+	144 S1+	
1782-3	SS03	146 S1+	152 S1+	
1782-4	SS04	143 S1+	148 S1+	
1782-5	SS05	138 S1+	144 S1+	
1782-6	SS06	137 S1+	139 S1+	
880-15882/2-A	Lab Control Sample	101	84	
SD 880-15882/3-A	Lab Control Sample Dup	105	87	
880-15882/1-A	Method Blank	112	126	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-1782-1 SDG: 31403720.000 task 27.02 Project/Site: Leamex 8 Battery

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-15880/5-A

Lab Sample ID: LCS 880-15880/1-A

Matrix: Solid

Analysis Batch: 15550

Matrix: Solid Analysis Batch: 15550 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15880

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/03/22 10:15	01/03/22 16:07	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/03/22 10:15	01/03/22 16:07	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/03/22 10:15	01/03/22 16:07	1
m-Xylene & p-Xylene	< 0.00397	U	0.00397	mg/Kg		01/03/22 10:15	01/03/22 16:07	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/03/22 10:15	01/03/22 16:07	1
Xylenes, Total	< 0.00397	U	0.00397	mg/Kg		01/03/22 10:15	01/03/22 16:07	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	01/03/22 10:	01/03/22 16:07	1
1.4-Difluorobenzene (Surr)	104		70 - 130	01/03/22 10:	15 01/03/22 16:07	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15880

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07590		mg/Kg		76	70 - 130	
Toluene	0.100	0.08444		mg/Kg		84	70 - 130	
Ethylbenzene	0.100	0.08959		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	0.200	0.1803		mg/Kg		90	70 - 130	
o-Xylene	0.100	0.08893		mg/Kg		89	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	110	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: LCSD 880-15880/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 15550

Prep Type: Total/NA Prep Batch: 15880

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07867		mg/Kg		79	70 - 130	4	35
Toluene	0.100	0.07724		mg/Kg		77	70 - 130	9	35
Ethylbenzene	0.100	0.08677		mg/Kg		87	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1679		mg/Kg		84	70 - 130	7	35
o-Xylene	0.100	0.08165		mg/Kg		82	70 - 130	9	35

LCSD LCSD

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-9761-A-1-F MS

Matrix: Solid

Analysis Batch: 15550

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 15880

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0990	0.06999		mg/Kg		71	70 - 130	
Toluene	<0.00200	U	0.0990	0.07015		mg/Kg		71	70 - 130	

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-1782-1 SDG: 31403720.000 task 27.02 Project/Site: Leamex 8 Battery

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

Lab Sample ID: 880-9761-A-1-F MS

Matrix: Solid

Analysis Batch: 15550									Prep	Batch: 15880
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0990	0.07018		mg/Kg		71	70 - 130	
m-Xylene & p-Xylene	<0.00400	U F1	0.198	0.1314	F1	mg/Kg		66	70 - 130	
o-Xylene	<0.00200	U	0.0990	0.06933		mg/Kg		70	70 - 130	

MS MS

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 880-9761-A-1-G MSD

Matrix: Solid

Analysis Batch: 15550

Client Sample ID:	Matrix Spike Duplicate
	Prop Type: Total/NA

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 15880

Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Analyte Unit Benzene <0.00200 U 0.100 0.07134 71 70 - 130 mg/Kg 2 35 Toluene <0.00200 U 0.100 0.07064 71 70 - 130 35 mg/Kg Ethylbenzene <0.00200 U 0.100 0.07258 mg/Kg 73 70 - 130 3 35 m-Xylene & p-Xylene <0.00400 UF1 0.200 0.1504 mg/Kg 75 70 - 130 35 13 0.100 0.07389 o-Xylene <0.00200 U 74 70 - 130 mg/Kg 6

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	115	70 _ 130
1,4-Difluorobenzene (Surr)	112	70 - 130

Lab Sample ID: MB 880-15881/5-A

Matrix: Solid

Analysis Batch: 15940

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15881

MR	MR

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/03/22 16:00	01/04/22 12:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/03/22 16:00	01/04/22 12:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/03/22 16:00	01/04/22 12:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/03/22 16:00	01/04/22 12:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/03/22 16:00	01/04/22 12:52	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/03/22 16:00	01/04/22 12:52	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	01/03/22 16:00	01/04/22 12:52	1
1,4-Difluorobenzene (Surr)	104		70 - 130	01/03/22 16:00	01/04/22 12:52	1

Lab Sample ID: LCS 880-15881/1-A

Matrix: Solid

Analysis Batch: 15940

Prep Type: Total/NA

Prep Batch: 15881

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07225		mg/Kg		72	70 - 130	
Toluene	0.100	0.07317		mg/Kg		73	70 - 130	
Ethylbenzene	0.100	0.08304		mg/Kg		83	70 - 130	
m-Xylene & p-Xylene	0.200	0.1620		mg/Kg		81	70 - 130	

Job ID: 890-1782-1

SDG: 31403720.000 task 27.02

Project/Site: Leamex 8 Battery

1,4-Difluorobenzene (Surr)

Client: WSP USA Inc.

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

Lab Sample ID: LCS 880-15881/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 15940** Prep Batch: 15881

	Spike	LCS LC	.3			70Rec.	
Analyte	Added	Result Qu	alifier Unit	D	%Rec	Limits	
o-Xylene	0.100	0.08231	mg/Kg	_	82	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-15881/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid Prep Type: Total/NA Analysis Batch: 15940 Prep Batch: 15881

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07039		mg/Kg		70	70 - 130	3	35
Toluene	0.100	0.07719		mg/Kg		77	70 - 130	5	35
Ethylbenzene	0.100	0.08395		mg/Kg		84	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1671		mg/Kg		84	70 - 130	3	35
o-Xylene	0.100	0.08181		mg/Kg		82	70 - 130	1	35

m-Xylene & p-Xylene			0.200	0.1671	mg/Kg	84	70 - 130	3
o-Xylene			0.100	0.08181	mg/Kg	82	70 - 130	1
	LCSD	LCSD						
Surrogate	%Recovery	Qualifier	Limits					
4-Bromofluorobenzene (Surr)			70 - 130					

70 - 130

Lab Sample ID: 880-9776-A-1-B MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 15940

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	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1	0.101	0.06410	F1	mg/Kg		63	70 - 130	
Toluene	<0.00201	U F1	0.101	0.07526		mg/Kg		75	70 - 130	
Ethylbenzene	<0.00201	U	0.101	0.07811		mg/Kg		77	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1524		mg/Kg		75	70 - 130	
o-Xylene	<0.00201	U	0.101	0.07818		mg/Kg		77	70 - 130	

0-Aylerie	\0.00201	U	0.101	0.07010
	MS	MS		
Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	117		70 - 130	
1,4-Difluorobenzene (Surr)	112		70 - 130	

Lab Sample ID: 880-9776-A-1-C MSD **Client Sample ID: Matrix Spike Duplicate**

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 15940** Prep Batch: 15881

_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1	0.101	0.05875	F1	mg/Kg		58	70 - 130	9	35
Toluene	<0.00201	U F1	0.101	0.06520	F1	mg/Kg		65	70 - 130	14	35
Ethylbenzene	<0.00201	U	0.101	0.07257		mg/Kg		72	70 - 130	7	35
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1434		mg/Kg		71	70 - 130	6	35
o-Xylene	<0.00201	U	0.101	0.07200		mg/Kg		72	70 - 130	8	35

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Prep Batch: 15881

Limits

 Client: WSP USA Inc.
 Job ID: 890-1782-1

 Project/Site: Leamex 8 Battery
 SDG: 31403720.000 task 27.02

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

Lab Sample ID: 880-9776-A-1-C MSD

Matrix: Solid

Analysis Batch: 15940

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15881

Surrogate MSD MSD WRecovery Qualifier

 4-Bromofluorobenzene (Surr)
 112
 70 - 130

 1,4-Difluorobenzene (Surr)
 102
 70 - 130

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

Lab Sample ID: MB 880-15882/1-A

Matrix: Solid

Analysis Batch: 15874

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15882

мв мв Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 01/03/22 10:55 01/03/22 20:25 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 01/03/22 10:55 01/03/22 20:25 C10-C28) 01/03/22 10:55 01/03/22 20:25 OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	01/03/22 10:55	01/03/22 20:25	1
o-Terphenyl	126		70 - 130	01/03/22 10:55	01/03/22 20:25	1

Lab Sample ID: LCS 880-15882/2-A

Matrix: Solid

Analysis Batch: 15874

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

Prep Batch: 15882

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	861.5		mg/Kg		86	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1101		mg/Kg		110	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	101	70 - 130
o-Terphenyl	84	70 - 130

Lab Sample ID: LCSD 880-15882/3-A

Matrix: Solid

Analysis Batch: 15874

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15882

-	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	940.4		mg/Kg		94	70 - 130	9	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1162		mg/Kg		116	70 _ 130	5	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	105	70 - 130
o-Terphenyl	87	70 - 130

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Job ID: 890-1782-1

SDG: 31403720.000 task 27.02

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

Lab Sample ID: 890-1780-A-1-D MS

Matrix: Solid

Client: WSP USA Inc.

Analysis Batch: 15874

Project/Site: Leamex 8 Battery

Client	Sample	ID:	Mat	rix	Spil	(e
	D.v.			-	C - 178	

Prep Type: Total/NA Prep Batch: 15882

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U F1	996	515.1	F1	mg/Kg		50	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U F1	996	491.8	F1	mg/Kg		49	70 - 130	
C10 C20\										

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: 890-1780-A-1-E MSD

Matrix: Solid Analysis Batch: 15874

Client Sample	ID: Matrix	Spike	Duplicate
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Prep Type: Total/NA

Prep Batch: 15882

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U F1	999	522.7	F1	mg/Kg		51	70 - 130	1	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U F1	999	512.8	F1	mg/Kg		51	70 - 130	4	20
C10-C28)											

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 119 70 - 130

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Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15878/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

70 - 130

Matrix: Solid

o-Terphenyl

Analysis Batch: 15923

MB MB

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 l	U	5.00	mg/Kg			01/04/22 08:47	1

Lab Sample ID: LCS 880-15878/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15923

	Spike	LCS LCS				%Rec.	
Analyte	Added	Result Qualific	er Unit	D	%Rec	Limits	
Chloride	250	246.7	ma/Ka		99	90 _ 110	

Lab Sample ID: LCSD 880-15878/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15923

Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 246.2 98 90 - 110 mg/Kg

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1782-1 Project/Site: Leamex 8 Battery SDG: 31403720.000 task 27.02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1782-4 MS **Client Sample ID: SS04 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15923

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	24100	F1	12500	34400	F1	mg/Kg		82	90 - 110	

Lab Sample ID: 890-1782-4 MSD **Client Sample ID: SS04** Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 15923

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	24100	F1	12500	35910		mg/Kg		94	90 - 110	4	20

 Client: WSP USA Inc.
 Job ID: 890-1782-1

 Project/Site: Leamex 8 Battery
 SDG: 31403720.000 task 27.02

GC VOA

Analysis Batch: 15550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1782-1	SS01	Total/NA	Solid	8021B	15880
890-1782-2	SS02	Total/NA	Solid	8021B	15880
MB 880-15880/5-A	Method Blank	Total/NA	Solid	8021B	15880
LCS 880-15880/1-A	Lab Control Sample	Total/NA	Solid	8021B	15880
LCSD 880-15880/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15880
880-9761-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	15880
880-9761-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15880

Prep Batch: 15880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1782-1	SS01	Total/NA	Solid	5035	
890-1782-2	SS02	Total/NA	Solid	5035	
MB 880-15880/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15880/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15880/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9761-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
880-9761-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 15881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1782-3	SS03	Total/NA	Solid	5035	
890-1782-4	SS04	Total/NA	Solid	5035	
890-1782-5	SS05	Total/NA	Solid	5035	
890-1782-6	SS06	Total/NA	Solid	5035	
MB 880-15881/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15881/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15881/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9776-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-9776-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 15940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1782-3	SS03	Total/NA	Solid	8021B	15881
890-1782-4	SS04	Total/NA	Solid	8021B	15881
890-1782-5	SS05	Total/NA	Solid	8021B	15881
890-1782-6	SS06	Total/NA	Solid	8021B	15881
MB 880-15881/5-A	Method Blank	Total/NA	Solid	8021B	15881
LCS 880-15881/1-A	Lab Control Sample	Total/NA	Solid	8021B	15881
LCSD 880-15881/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15881
880-9776-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	15881
880-9776-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15881

Analysis Batch: 16096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1782-1	SS01	Total/NA	Solid	Total BTEX	
890-1782-2	SS02	Total/NA	Solid	Total BTEX	
890-1782-3	SS03	Total/NA	Solid	Total BTEX	
890-1782-4	SS04	Total/NA	Solid	Total BTEX	
890-1782-5	SS05	Total/NA	Solid	Total BTEX	
890-1782-6	SS06	Total/NA	Solid	Total BTEX	

Job ID: 890-1782-1 Client: WSP USA Inc. Project/Site: Leamex 8 Battery SDG: 31403720.000 task 27.02

GC Semi VOA

Analysis Batch: 15874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1782-1	SS01	Total/NA	Solid	8015B NM	15882
890-1782-2	SS02	Total/NA	Solid	8015B NM	15882
890-1782-3	SS03	Total/NA	Solid	8015B NM	15882
890-1782-4	SS04	Total/NA	Solid	8015B NM	15882
890-1782-5	SS05	Total/NA	Solid	8015B NM	15882
890-1782-6	SS06	Total/NA	Solid	8015B NM	15882
MB 880-15882/1-A	Method Blank	Total/NA	Solid	8015B NM	15882
LCS 880-15882/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15882
LCSD 880-15882/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15882
890-1780-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	15882
890-1780-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	15882

Prep Batch: 15882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1782-1	SS01	Total/NA	Solid	8015NM Prep	
890-1782-2	SS02	Total/NA	Solid	8015NM Prep	
890-1782-3	SS03	Total/NA	Solid	8015NM Prep	
890-1782-4	SS04	Total/NA	Solid	8015NM Prep	
890-1782-5	SS05	Total/NA	Solid	8015NM Prep	
890-1782-6	SS06	Total/NA	Solid	8015NM Prep	
MB 880-15882/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15882/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15882/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1780-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1780-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 16097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1782-1	SS01	Total/NA	Solid	8015 NM	
890-1782-2	SS02	Total/NA	Solid	8015 NM	
890-1782-3	SS03	Total/NA	Solid	8015 NM	
890-1782-4	SS04	Total/NA	Solid	8015 NM	
890-1782-5	SS05	Total/NA	Solid	8015 NM	
890-1782-6	SS06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 15878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1782-1	SS01	Soluble	Solid	DI Leach	
890-1782-2	SS02	Soluble	Solid	DI Leach	
890-1782-3	SS03	Soluble	Solid	DI Leach	
890-1782-4	SS04	Soluble	Solid	DI Leach	
890-1782-5	SS05	Soluble	Solid	DI Leach	
890-1782-6	SS06	Soluble	Solid	DI Leach	
MB 880-15878/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15878/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15878/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1782-4 MS	SS04	Soluble	Solid	DI Leach	
890-1782-4 MSD	SS04	Soluble	Solid	DI Leach	

 Client: WSP USA Inc.
 Job ID: 890-1782-1

 Project/Site: Leamex 8 Battery
 SDG: 31403720.000 task 27.02

HPLC/IC

Analysis Batch: 15923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1782-1	SS01	Soluble	Solid	300.0	15878
890-1782-2	SS02	Soluble	Solid	300.0	15878
890-1782-3	SS03	Soluble	Solid	300.0	15878
890-1782-4	SS04	Soluble	Solid	300.0	15878
890-1782-5	SS05	Soluble	Solid	300.0	15878
890-1782-6	SS06	Soluble	Solid	300.0	15878
MB 880-15878/1-A	Method Blank	Soluble	Solid	300.0	15878
LCS 880-15878/2-A	Lab Control Sample	Soluble	Solid	300.0	15878
LCSD 880-15878/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15878
890-1782-4 MS	SS04	Soluble	Solid	300.0	15878
890-1782-4 MSD	SS04	Soluble	Solid	300.0	15878

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Job ID: 890-1782-1

Client: WSP USA Inc. Project/Site: Leamex 8 Battery SDG: 31403720.000 task 27.02

Client Sample ID: SS01 Lab Sample ID: 890-1782-1 Date Collected: 12/29/21 08:58 Matrix: Solid

Date Received: 12/29/21 15:28

	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	15880	01/03/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	15550	01/04/22 00:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16096	01/05/22 13:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16097	01/05/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	15882	01/03/22 10:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15874	01/03/22 22:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	15878	01/03/22 10:05	CH	XEN MID
Soluble	Analysis	300.0		20			15923	01/04/22 15:40	CH	XEN MID

Client Sample ID: SS02 Lab Sample ID: 890-1782-2

Date Collected: 12/29/21 09:00 Matrix: Solid

Date Received: 12/29/21 15:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	15880	01/03/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	15550	01/04/22 00:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16096	01/05/22 13:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16097	01/05/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	15882	01/03/22 10:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15874	01/03/22 23:11	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	15878	01/03/22 10:05	CH	XEN MID
Soluble	Analysis	300.0		50			15923	01/04/22 10:45	CH	XEN MI

Client Sample ID: SS03 Lab Sample ID: 890-1782-3

Date Collected: 12/29/21 09:02 Date Received: 12/29/21 15:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	15881	01/03/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	15940	01/04/22 15:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16096	01/05/22 13:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16097	01/05/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	15882	01/03/22 10:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15874	01/03/22 23:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	15878	01/03/22 10:05	CH	XEN MID
Soluble	Analysis	300.0		50			15923	01/04/22 10:52	CH	XEN MID

Client Sample ID: SS04 Lab Sample ID: 890-1782-4

Date Collected: 12/29/21 09:05 Date Received: 12/29/21 15:28

	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	15881	01/03/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	15940	01/04/22 15:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16096	01/05/22 13:44	AJ	XEN MID

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Released to Imaging: 9/21/2022 11:05:49 AM

Matrix: Solid

Matrix: Solid

Job ID: 890-1782-1

Client: WSP USA Inc. Project/Site: Leamex 8 Battery SDG: 31403720.000 task 27.02

Client Sample ID: SS04 Lab Sample ID: 890-1782-4 Date Collected: 12/29/21 09:05 Matrix: Solid

Date Received: 12/29/21 15:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			16097	01/05/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	15882	01/03/22 10:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15874	01/03/22 23:52	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	15878	01/03/22 10:05	CH	XEN MID
Soluble	Analysis	300.0		50			15923	01/04/22 11:00	CH	XEN MID

Client Sample ID: SS05 Lab Sample ID: 890-1782-5

Date Collected: 12/29/21 09:08 **Matrix: Solid**

Date Received: 12/29/21 15:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	15881	01/03/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	15940	01/04/22 16:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16096	01/05/22 13:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16097	01/05/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	15882	01/03/22 10:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15874	01/04/22 00:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	15878	01/03/22 10:05	CH	XEN MID
Soluble	Analysis	300.0		50			15923	01/04/22 11:24	CH	XEN MID

Client Sample ID: SS06 Lab Sample ID: 890-1782-6

Date Collected: 12/29/21 09:10 **Matrix: Solid** Date Received: 12/29/21 15:28

	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	15881	01/03/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	15940	01/04/22 16:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16096	01/05/22 13:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16097	01/05/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	15882	01/03/22 10:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15874	01/04/22 00:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	15878	01/03/22 10:05	CH	XEN MID
Soluble	Analysis	300.0		50			15923	01/04/22 11:32	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 890-1782-1

 Project/Site: Leamex 8 Battery
 SDG: 31403720.000 task 27.02

Laboratory: Eurofins Xenco

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

Authority	Pre	ogram	Identification Number	Expiration Date
Texas	NE	LAP	T104704400-21-22	06-30-22
The following analytes	are included in this report bu	t the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for y
the agency does not of	' '	t the laboratory to not ocium	od by the governing dutienty. The list me	ay include analytes for
the agency does not of Analysis Method	' '	Matrix	Analyte	ay molade analytes for t
0 ,	fer certification.	•	, , ,	

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Method Summary

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

Job ID: 890-1782-1

SDG: 31403720.000 task 27.02

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

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Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

Job ID: 890-1782-1

SDG: 31403720.000 task 27.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
· · · · · · · · · · · · · · · · · · ·					-1
890-1782-1	SS01	Solid	12/29/21 08:58	12/29/21 15:28	0.25
890-1782-2	SS02	Solid	12/29/21 09:00	12/29/21 15:28	0.25
890-1782-3	SS03	Solid	12/29/21 09:02	12/29/21 15:28	0.25
890-1782-4	SS04	Solid	12/29/21 09:05	12/29/21 15:28	0.25
890-1782-5	SS05	Solid	12/29/21 09:08	12/29/21 15:28	0.25
890-1782-6	SS06	Solid	12/29/21 09:10	12/29/21 15:28	0.25

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Work Order No:

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

Chain of Custody

П		N'sqqoH	M (575-392-755) Phoenix,AZ	(480-35	(0060-	tlanta, C.	Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)	M	200
roject Manager: Ka	Kalei Jennings		Bill	Bill to: (if different)		Kalei Jennings	sbı		Work Order Comments	Comments
company Name: W	WSP USA		8	Company Name		WSP USA			Program: UST/PST	nfields (RC Denfund
	3300 North A Street Building 1, unit 222	uilding 1, unit 22		Address:	33	00 North	A Street	3300 North A Street Building 1, unit 222	State of Project:	
e ZIP:	Midland, Texas 79705		ij	City, State ZIP:	Min	Midland, Texas 79705	xas 797	50	Reporting:Level II evel III T/UST	
hone: 81	817-683-2503		Email: Ka	Email: Kalei.jennings@wsp.com	@wsb.	mo			Deliverables: EDD ADaPT	of Dother:
roject Name:	Leamex 8 Battery		Turn Arou	Around				ANALYSIS REC	REQUEST	Work Order Notes
Project Number:	31403720.000 Task 27.02	Task 27.02	Routine	7		_				
O. Number:			Rush:							
ne:	Payton Benner		Due Date:							
SAMPLE RECEIPT	T Temp Blank:	oN (Se)	Wet Ice:	oN (Sax						
emperature (°C):	1.2 1.0	The	Thermometer ID		S19U					
Received Intact:	- (S	1-Nn	182		ist	(12	(0.0	890-1782 0	Chain of Custody	
Cooler Custody Seals:	N S		Correction Factor:	7.0-)E A	_		TAT starts the day recevied by the
Sample Custody Seals:	92		Total Containers:				4∃) €			lab, if received by 4:30pm
Sample Identification	ication Matrix	Date Sampled	Time Sampled	Depth	9dmuM 93) H9T	3) X3T8	Chlorid			Sample Comments
SS01	S	12/29/21	8:58	0.25	-	×	×			Discrete
SS02	S	12/29/21	00:6	0.25	+	×	×			Discrete
8803	S	12/29/21	9:02	0.25	1	×	×			Discrete
SS04	S	12/29/21	9:02	0.25	-	×	×			Discrete
SS05	S	12/29/21	80:6	0.25		×	×			Discrete
8806	S	12/29/21	9:10	0.25	-	×	×			Discrete
					-	-				
					-	_				
					+	-				
					\dashv	4				
Total 200.7 / 6010	0 200.8 / 6020:	₩	BRCRA 13PPM Texas 11 Al	Texas 11	И	Sb As Ba	Be G	d Ca Cr Co Cu Fe	Ag Mn Mo Ni K Se Ag SiOZ	Na Sr TI Sn U V Zn 1631 / 245 1 / 2420 / 7421 : Hn
ircie Method(s	Circle Method(s) and Metal(s) to be analyzed	ırıaryzeu			5	2		isset and setting the setting	and forms and conditions	
signature of this doc e. Xenco will be lial b. A minimum charg	lotice: Signature of this document and reindulsinnent of samples constitutes a saind publicase one of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sa	or samples constitutions and shall not associated and and and and and and and and and an	es a vand purchas sume any respons charge of \$5 for e	ibility for any lo	sses or e	rpenses ir Kenco, bu	curred by not analy	In front client company to Aerico, its animates and subcontractors. It assigns submediate comes and for any losses or expenses incurred by the client if such losses are due to circumstances beyond the cimple submitted to Xenco, but not enalyzed. These terms will be enforced unless previously negotiated.	In form client company to Agrico, has an integers and subsolingations. It assigns submitted to the control for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control imple submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	
Relinquished by: (Signature)	Signature)	/ Received by	Received by: (Signature)		ğ	Date/Time		Relinquished by: (Signature)	nature) Received by: (Signature)	ure) Date/Time
pen	WIN	1		Ţ	129 hl		3:58	2		
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								9		
										Revised Date 051418 Rev. 2018 1

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1782-1

SDG Number: 31403720.000 task 27.02

Login Number: 1782 List Source: Eurofins Xenco

List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1782-1

SDG Number: 31403720.000 task 27.02

Login Number: 1782 **List Source: Eurofins Xenco** List Number: 2 List Creation: 01/03/22 08:30 AM Creator: Lowe, Katie

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	

<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-12724-1

Laboratory Sample Delivery Group: 32.81611, -103.621202

Client Project/Site: Leamex 8 Battery

For:

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

Attn: Kalei Jennings

JURAMER

Authorized for release by: 3/31/2022 5:07:26 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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www.eurofinsus.com/Env

Released to Imaging: 9/21/2022 11:05:49 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: Leamex 8 Battery Laboratory Job ID: 880-12724-1 SDG: 32.81611, -103.621202

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-12724-1 Project/Site: Leamex 8 Battery SDG: 32.81611, -103.621202

Qualifiers

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G	U	v	U	А

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

GC Semi VOA

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

HDI C/IC

RL

RPD

TEF

TEQ TNTC

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

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

Eurofins Midland

Reporting Limit or Requested Limit (Radiochemistry)

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

Too Numerous To Count

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

Case Narrative

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

Job ID: 880-12724-1 SDG: 32.81611, -103.621202

Job ID: 880-12724-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-12724-1

Receipt

The samples were received on 3/22/2022 12:24 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.3°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: (LCSD 880-22118/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike duplicate (MSD) recoveries for preparation batch 880-22470 and analytical batch 880-22721 were outside control limits. Non-homogeneity is 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.

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Matrix: Solid

Lab Sample ID: 880-12724-1

Client: WSP USA Inc.

Job ID: 880-12724-1

Project/Site Learner 0 Particular 103 034300

Project/Site: Leamex 8 Battery SDG: 32.81611, -103.621202

Date Collected: 03/16/22 11:00
Date Received: 03/22/22 12:24

Sample Depth: 0.5'

Client Sample ID: SS07

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/23/22 10:00	03/23/22 17:44	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/23/22 10:00	03/23/22 17:44	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/23/22 10:00	03/23/22 17:44	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		03/23/22 10:00	03/23/22 17:44	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/23/22 10:00	03/23/22 17:44	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		03/23/22 10:00	03/23/22 17:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			03/23/22 10:00	03/23/22 17:44	1
1,4-Difluorobenzene (Surr)	95		70 - 130			03/23/22 10:00	03/23/22 17:44	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			03/24/22 16:34	1
Mothods 2015 NM Discol Bongs	Organica (DB)	0) (CC)						
Method: 8015 NM - Diesel Range Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0		50.0	mg/Kg			03/23/22 12:25	1
•				0 0				
Method: 8015B NM - Diesel Rang	ge Organics (Di	RO) (GC)						
Analyte	Dogult	O						
y	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0		50.0	mg/Kg	<u>D</u>	Prepared 03/22/22 14:00	Analyzed 03/22/22 17:52	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		U			<u>D</u>	<u>·</u>		1
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	<u>D</u>	03/22/22 14:00	03/22/22 17:52	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 <50.0	U U U	50.0	mg/Kg	<u> </u>	03/22/22 14:00	03/22/22 17:52	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	<50.0 <50.0 <50.0	U U U	50.0 50.0 50.0	mg/Kg	<u>D</u>	03/22/22 14:00 03/22/22 14:00 03/22/22 14:00	03/22/22 17:52 03/22/22 17:52 03/22/22 17:52	1 1 1 Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0 <50.0 %Recovery	U U U	50.0 50.0 50.0 <i>Limits</i>	mg/Kg	<u>D</u>	03/22/22 14:00 03/22/22 14:00 03/22/22 14:00 Prepared	03/22/22 17:52 03/22/22 17:52 03/22/22 17:52 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 <50.0 <50.0 %Recovery 97 100	U U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	mg/Kg	<u>D</u>	03/22/22 14:00 03/22/22 14:00 03/22/22 14:00 Prepared 03/22/22 14:00	03/22/22 17:52 03/22/22 17:52 03/22/22 17:52 Analyzed 03/22/22 17:52	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 <50.0 <50.0 <50.0 %Recovery 97 100 omatography -	U U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	mg/Kg	<u>D</u>	03/22/22 14:00 03/22/22 14:00 03/22/22 14:00 Prepared 03/22/22 14:00	03/22/22 17:52 03/22/22 17:52 03/22/22 17:52 Analyzed 03/22/22 17:52	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: SS08 Lab Sample ID: 880-12724-2

Date Collected: 03/16/22 11:02 Date Received: 03/22/22 12:24

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/23/22 10:00	03/23/22 18:05	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/23/22 10:00	03/23/22 18:05	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/23/22 10:00	03/23/22 18:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/23/22 10:00	03/23/22 18:05	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/23/22 10:00	03/23/22 18:05	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/23/22 10:00	03/23/22 18:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	70 - 130			03/23/22 10:00	03/23/22 18:05	1

Eurofins Midland

Matrix: Solid

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Client: WSP USA Inc. Project/Site: Leamex 8 Battery

Job ID: 880-12724-1

SDG: 32.81611, -103.621202

Client Sample ID: SS08 Lab Sample ID: 880-12724-2

Matrix: Solid

Date Received: 03/22/22 12:24 Sample Depth: 0.5'

Date Collected: 03/16/22 11:02

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	03/23/22 10:00	03/23/22 18:05	1

Method: To	tal BTFX - Tot	tal BTEX Calculation	n

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/24/22 16:34	1

Mothod: 8015 NM	Diosal Range	Organice	(DRO) (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	ma/Ka		 	03/23/22 12:25	1

		_			
Method: 8015B	NM - Diesel	Range Org	ranics ('DROL	GC
motriou. ou rob	THE DIGGOL	itunge or	garnoo (D. (O)	(–

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/22/22 14:00	03/22/22 18:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/22/22 14:00	03/22/22 18:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/22/22 14:00	03/22/22 18:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	03/22/22 14:0	03/22/22 18:13	1
o-Terphenyl	102		70 - 130	03/22/22 14:0	0 03/22/22 18:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17500		251	mg/Kg			03/31/22 12:29	50

Client Sample ID: SS09 Lab Sample ID: 880-12724-3 Matrix: Solid

Date Collected: 03/16/22 11:06 Date Received: 03/22/22 12:24

Sample Depth: 0.5'

Method: 8021B -	. Volatila	Organic (Compounds	(GC)
Methou, ouz ib :	· voiatile	Oruanic C	JUHUUUHIUS	100

Motifica. Coz ID Volutilo Orga	ino compoundo ((33)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/23/22 10:00	03/23/22 18:25	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/23/22 10:00	03/23/22 18:25	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/23/22 10:00	03/23/22 18:25	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/23/22 10:00	03/23/22 18:25	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/23/22 10:00	03/23/22 18:25	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/23/22 10:00	03/23/22 18:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			03/23/22 10:00	03/23/22 18:25	1
1,4-Difluorobenzene (Surr)	96		70 - 130			03/23/22 10:00	03/23/22 18:25	1

Method:	Total R	TFY - T	ntal RT	FX Calcu	ılation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			03/24/22 16:34	1

Analyte	•	•	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			<50.0	U	50.0	mg/Kg			03/23/22 12:25	1

Eurofins Midland

Matrix: Solid

Lab Sample ID: 880-12724-3

Client: WSP USA Inc. Job ID: 880-12724-1 Project/Site: Leamex 8 Battery SDG: 32.81611, -103.621202

Client Sample ID: SS09

Date Collected: 03/16/22 11:06 Date Received: 03/22/22 12:24

Sample Depth: 0.5'

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/22/22 14:00	03/22/22 18:33	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/22/22 14:00	03/22/22 18:33	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/22/22 14:00	03/22/22 18:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			03/22/22 14:00	03/22/22 18:33	1
o-Terphenyl	107		70 - 130			03/22/22 14:00	03/22/22 18:33	1
— Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.3		4.95	mg/Kg			03/31/22 12:38	1

Lab Sample ID: 880-12724-4 **Client Sample ID: SS10** Date Collected: 03/16/22 11:10 Matrix: Solid

Date Received: 03/22/22 12:24

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/23/22 10:00	03/23/22 18:46	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/23/22 10:00	03/23/22 18:46	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/23/22 10:00	03/23/22 18:46	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/23/22 10:00	03/23/22 18:46	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/23/22 10:00	03/23/22 18:46	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/23/22 10:00	03/23/22 18:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			03/23/22 10:00	03/23/22 18:46	1
1,4-Difluorobenzene (Surr)	98		70 - 130			03/23/22 10:00	03/23/22 18:46	1
Method: Total BTEX - Total BTE)	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			03/24/22 16:34	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/23/22 12:25	1
Method: 8015B NM - Diesel Rand	e 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		03/22/22 14:00	03/22/22 18:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/22/22 14:00	03/22/22 18:54	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/22/22 14:00	03/22/22 18:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			03/22/22 14:00	03/22/22 18:54	1

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Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-12724-1

 Project/Site: Leamex 8 Battery
 SDG: 32.81611, -103.621202

Project/Site: Learnex 8 Battery SDG: 32.81611, -103.021202

Client Sample ID: SS10

Date Collected: 03/16/22 11:10

Date Received: 03/22/22 12:24

Lab Sample ID: 880-12724-4

Matrix: Solid

Sample Depth: 0.5'

١	Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
	Chloride	16100		252	mg/Kg			03/31/22 12:47	50		

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Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 880-12724-1

 Project/Site: Leamex 8 Battery
 SDG: 32.81611, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-12724-1	SS07	125	95	
380-12724-2	SS08	171 S1+	97	
880-12724-3	SS09	125	96	
380-12724-4	SS10	121	98	
890-2105-A-1-F MS	Matrix Spike	52 S1-	104	
390-2105-A-1-G MSD	Matrix Spike Duplicate	98	109	
LCS 880-21853/1-A	Lab Control Sample	98	102	
LCSD 880-21853/2-A	Lab Control Sample Dup	100	107	
MB 880-21853/5-A	Method Blank	120	96	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
12698-A-1-D MS	Matrix Spike	99	90	
12698-A-1-E MSD	Matrix Spike Duplicate	99	90	
12724-1	SS07	97	100	
2724-2	SS08	100	102	
2724-3	SS09	103	107	
2724-4	SS10	115	120	
880-22118/2-A	Lab Control Sample	108	113	
D 880-22118/3-A	Lab Control Sample Dup	125	133 S1+	
880-22118/1-A	Method Blank	93	98	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: WSP USA Inc. Job ID: 880-12724-1 Project/Site: Leamex 8 Battery SDG: 32.81611, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21853/5-A

Lab Sample ID: LCS 880-21853/1-A

Matrix: Solid

Analysis Batch: 22182

Matrix: Solid

Analysis Batch: 22182 MR MR

Client Sample ID: Method	Blank
Prep Type: To	al/NA

Prep Batch: 21853

	1410							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/23/22 07:30	03/23/22 11:09	
Toluene	<0.00200	U	0.00200	mg/Kg		03/23/22 07:30	03/23/22 11:09	•
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/23/22 07:30	03/23/22 11:09	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/23/22 07:30	03/23/22 11:09	
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/23/22 07:30	03/23/22 11:09	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/23/22 07:30	03/23/22 11:09	

мв мв

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	0	3/23/22 07:30	03/23/22 11:09	1
1,4-Difluorobenzene (Surr)	96		70 - 130	0	3/23/22 07:30	03/23/22 11:09	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21853

Prep Type: Total/NA

Prep Batch: 21853

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1060		mg/Kg		106	70 - 130	
Toluene	0.100	0.08963		mg/Kg		90	70 - 130	
Ethylbenzene	0.100	0.09757		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	0.200	0.2096		mg/Kg		105	70 - 130	
o-Xylene	0.100	0.1034		mg/Kg		103	70 - 130	

LCS LCS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-21853/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 22182

,	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1111		mg/Kg		111	70 - 130	5	35	
Toluene	0.100	0.08944		mg/Kg		89	70 - 130	0	35	
Ethylbenzene	0.100	0.09503		mg/Kg		95	70 - 130	3	35	
m-Xylene & p-Xylene	0.200	0.2047		mg/Kg		102	70 - 130	2	35	
o-Xvlene	0.100	0.1019		ma/Ka		102	70 ₋ 130	1	35	

LCSD LCSD

Surrogate	%Recovery C	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1.4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-2105-A-1-F MS

Matrix: Solid

ı	Analysis Batch: 22182									Prep	Batch: 21853
		Sample	Sample	Spike	MS	MS				%Rec.	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
l	Benzene	<0.00202	U	0.0996	0.09756		mg/Kg		98	70 - 130	
	Toluene	<0.00202	U	0.0996	0.08866		mg/Kg		89	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

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QC Sample Results

Client: WSP USA Inc. Job ID: 880-12724-1 Project/Site: Leamex 8 Battery SDG: 32.81611, -103.621202

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

Lab Sample ID: 890-2105-A-1-F MS

Lab Sample ID: 890-2105-A-1-G MSD

Matrix: Solid

Analysis Batch: 22182

Client Sample ID: Matrix Spike **Matrix: Solid**

Prep Type: Total/NA Prep Batch: 21853

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00202 U 0.0996 0.1010 101 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00404 0.199 0.2233 mg/Kg 112 70 - 130 0.0996 o-Xylene <0.00202 U 0.1109 70 - 130 mg/Kg 111

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	52	S1-	70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 21853

Analysis Batch: 22182 Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added %Rec RPD Limit Analyte Result Qualifier Limits Unit Benzene <0.00202 U 0.100 0.1038 mg/Kg 103 70 - 130 6 35 Toluene <0.00202 U 0.100 0.08314 mg/Kg 83 70 - 130 6 35 Ethylbenzene <0.00202 U 0.100 0.08960 90 70 - 130 12 35 mg/Kg 0.200 m-Xylene & p-Xylene <0.00404 U 0.1934 mq/Kq 97 70 - 130 14 35 <0.00202 U 0.100 0.09686 97 70 - 130 o-Xylene mg/Kg 14

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

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

Lab Sample ID: MB 880-22118/1-A

Matrix: Solid

Analysis Batch: 22112

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 22118

мв мв Result Qualifier RL Unit D Prepared Analyzed Dil Fac Analyte 50.0 03/22/22 08:37 03/22/22 10:58 <50.0 U Gasoline Range Organics mg/Kg (GRO)-C6-C10 03/22/22 08:37 03/22/22 10:58 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 03/22/22 08:37 03/22/22 10:58 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	03/22/22 08:37	03/22/22 10:58	1
o-Terphenyl	98		70 - 130	03/22/22 08:37	03/22/22 10:58	1

Lab Sample ID: LCS 880-22118/2-A

Matrix: Solid

Analysis Batch: 22112

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

Prep Batch: 22118

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	985.6		mg/Kg		99	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1101		mg/Kg		110	70 - 130	
C10-C28)								

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Job ID: 880-12724-1 SDG: 32.81611, -103.621202

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

LCS LCS

Lab Sample ID: LCS 880-22118/2-A

Matrix: Solid

Analysis Batch: 22112

Project/Site: Leamex 8 Battery

Client: WSP USA Inc.

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

Prep Batch: 22118

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 108 70 - 130 o-Terphenyl 113 70 - 130

Lab Sample ID: LCSD 880-22118/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 22112

Prep Type: Total/NA

Prep Batch: 22118

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 1058 106 70 - 1307 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1284 mg/Kg 128 70 - 13020 15

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 125 133 S1+ 70 - 130 o-Terphenyl

Lab Sample ID: 880-12698-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 22112

Prep Type: Total/NA

Prep Batch: 22118

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.8	U	998	1149		mg/Kg		115	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.8	U	998	1090		mg/Kg		108	70 - 130	
C10-C28)										

C10-C28)

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 99 o-Terphenyl 90 70 - 130

Lab Sample ID: 880-12698-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

o-Terphenyl

Analysis Batch: 22112

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Prep Type: Total/NA

Prep Batch: 22118

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	1181		mg/Kg		118	70 - 130	3	20	
Diesel Range Organics (Over	<49.8	U	999	1098		mg/Kg		108	70 - 130	1	20	
C10-C28)												

70 - 130

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 99 70 - 130

90

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Client Sample ID: Method Blank

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12724-1 Project/Site: Leamex 8 Battery SDG: 32.81611, -103.621202

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22470/1-A

Matrix: Solid

Analysis Batch: 22721

Prep Type: Soluble MB MB

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 03/31/22 11:36

Lab Sample ID: LCS 880-22470/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22721

Spike

LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 234.5 mg/Kg 94 90 - 110

Lab Sample ID: LCSD 880-22470/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22721

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit

Chloride 250 234.4 mg/Kg 90 - 110

Lab Sample ID: 880-12724-1 MS **Client Sample ID: SS07 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 22721

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 12500 35690 Chloride 22700 105 90 - 110 mg/Kg

Lab Sample ID: 880-12724-1 MSD

Matrix: Solid

Analysis Batch: 22721

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 22700 F1 12500 33770 F1 mg/Kg 89 90 - 110 6 20

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Client Sample ID: SS07

Prep Type: Soluble

Client: WSP USA Inc. Job ID: 880-12724-1 Project/Site: Leamex 8 Battery SDG: 32.81611, -103.621202

GC VOA

Prep Batch: 21853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12724-1	SS07	Total/NA	Solid	5035	
880-12724-2	SS08	Total/NA	Solid	5035	
880-12724-3	SS09	Total/NA	Solid	5035	
880-12724-4	SS10	Total/NA	Solid	5035	
MB 880-21853/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-21853/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-21853/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2105-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
890-2105-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 22182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12724-1	SS07	Total/NA	Solid	8021B	21853
880-12724-2	SS08	Total/NA	Solid	8021B	21853
880-12724-3	SS09	Total/NA	Solid	8021B	21853
880-12724-4	SS10	Total/NA	Solid	8021B	21853
MB 880-21853/5-A	Method Blank	Total/NA	Solid	8021B	21853
LCS 880-21853/1-A	Lab Control Sample	Total/NA	Solid	8021B	21853
LCSD 880-21853/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	21853
890-2105-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	21853
890-2105-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	21853

Analysis Batch: 22299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Pr	ep Batch
880-12724-1	SS07	Total/NA	Solid	Total BTEX	
880-12724-2	SS08	Total/NA	Solid	Total BTEX	
880-12724-3	SS09	Total/NA	Solid	Total BTEX	
880-12724-4	SS10	Total/NA	Solid	Total BTEX	

GC Semi VOA

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12724-1	SS07	Total/NA	Solid	8015B NM	22118
880-12724-2	SS08	Total/NA	Solid	8015B NM	22118
880-12724-3	SS09	Total/NA	Solid	8015B NM	22118
880-12724-4	SS10	Total/NA	Solid	8015B NM	22118
MB 880-22118/1-A	Method Blank	Total/NA	Solid	8015B NM	22118
LCS 880-22118/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22118
LCSD 880-22118/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22118
880-12698-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	22118
880-12698-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12724-1	SS07	Total/NA	Solid	8015NM Prep	
880-12724-2	SS08	Total/NA	Solid	8015NM Prep	
880-12724-3	SS09	Total/NA	Solid	8015NM Prep	
880-12724-4	SS10	Total/NA	Solid	8015NM Prep	
MB 880-22118/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22118/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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880-12698-A-1-E MSE	Matrix Spike Duplicate	Total/NA	Solid	
Prep Batch: 22118				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	
880-12724-1	SS07	Total/NA	Solid	
880-12724-2	SS08	Total/NA	Solid	

Client: WSP USA Inc. Job ID: 880-12724-1 Project/Site: Leamex 8 Battery SDG: 32.81611, -103.621202

GC Semi VOA (Continued)

Prep Batch: 22118 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-22118/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12698-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12698-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
880-12724-1	SS07	Total/NA	Solid	8015 NM
880-12724-2	SS08	Total/NA	Solid	8015 NM
880-12724-3	SS09	Total/NA	Solid	8015 NM
880-12724-4	SS10	Total/NA	Solid	8015 NM

HPLC/IC

Leach Batch: 22470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12724-1	SS07	Soluble	Solid	DI Leach	_
880-12724-2	SS08	Soluble	Solid	DI Leach	
880-12724-3	SS09	Soluble	Solid	DI Leach	
880-12724-4	SS10	Soluble	Solid	DI Leach	
MB 880-22470/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-12724-1 MS	SS07	Soluble	Solid	DI Leach	
880-12724-1 MSD	SS07	Soluble	Solid	DI Leach	

Analysis Batch: 22721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12724-1	SS07	Soluble	Solid	300.0	22470
880-12724-2	SS08	Soluble	Solid	300.0	22470
880-12724-3	SS09	Soluble	Solid	300.0	22470
880-12724-4	SS10	Soluble	Solid	300.0	22470
MB 880-22470/1-A	Method Blank	Soluble	Solid	300.0	22470
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	300.0	22470
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22470
880-12724-1 MS	SS07	Soluble	Solid	300.0	22470
880-12724-1 MSD	SS07	Soluble	Solid	300.0	22470

Eurofins Midland

Client: WSP USA Inc. Job ID: 880-12724-1 Project/Site: Leamex 8 Battery SDG: 32.81611, -103.621202

Client Sample ID: SS07 Lab Sample ID: 880-12724-1

Date Collected: 03/16/22 11:00 Matrix: Solid Date Received: 03/22/22 12:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	21853	03/23/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22182	03/23/22 17:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22299	03/24/22 16:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22200	03/23/22 12:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22118	03/22/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22112	03/22/22 17:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		50			22721	03/31/22 12:02	SC	XEN MI

Client Sample ID: SS08 Lab Sample ID: 880-12724-2 Date Collected: 03/16/22 11:02 Matrix: Solid

Date Received: 03/22/22 12:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	21853	03/23/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22182	03/23/22 18:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22299	03/24/22 16:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22200	03/23/22 12:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22118	03/22/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22112	03/22/22 18:13	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		50			22721	03/31/22 12:29	SC	XEN MID

Client Sample ID: SS09 Lab Sample ID: 880-12724-3 Date Collected: 03/16/22 11:06

Date Received: 03/22/22 12:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	21853	03/23/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22182	03/23/22 18:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22299	03/24/22 16:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22200	03/23/22 12:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22118	03/22/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22112	03/22/22 18:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22470	03/28/22 10:58	СН	XEN MID
Soluble	Analysis	300.0		1			22721	03/31/22 12:38	SC	XEN MID

Client Sample ID: SS10 Lab Sample ID: 880-12724-4 Date Collected: 03/16/22 11:10

Date Received: 03/22/22 12:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	21853	03/23/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22182	03/23/22 18:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22299	03/24/22 16:34	AJ	XEN MID

Eurofins Midland

Matrix: Solid

Matrix: Solid

Lab Chronicle

 Client: WSP USA Inc.
 Job ID: 880-12724-1

 Project/Site: Leamex 8 Battery
 SDG: 32.81611, -103.621202

Client Sample ID: SS10

Lab Sample ID: 880-12724-4

Matrix: Solid

Date Collected: 03/16/22 11:10 Date Received: 03/22/22 12:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22200	03/23/22 12:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22118	03/22/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22112	03/22/22 18:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		50			22721	03/31/22 12:47	SC	XEN MID

Laboratory References:

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

Eurofins Midland

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Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 880-12724-1

 Project/Site: Leamex 8 Battery
 SDG: 32.81611, -103.621202

Laboratory: Eurofins Midland

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

Authority Texas		ogram	Identification Number	Expiration Date 06-30-22	
		ELAP	T104704400-21-22		
The following analytes	are included in this report, bu	ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for	
the agency does not of	fer certification.			,	
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	,	
9 ,		Matrix Solid	Analyte Total TPH		

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Method Summary

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

Job ID: 880-12724-1

SDG: 32.81611, -103.621202

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

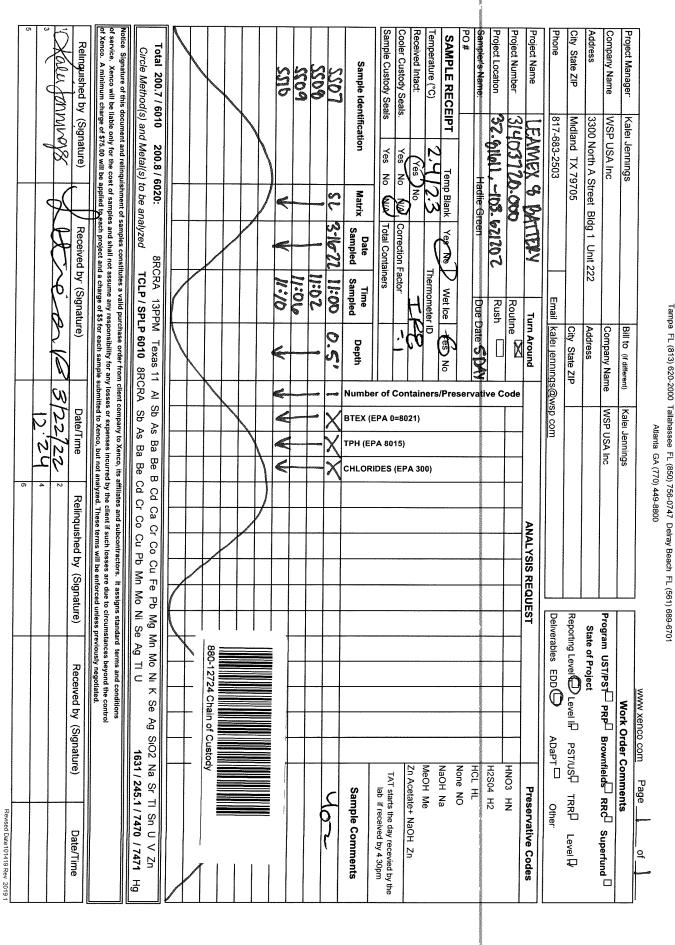
Job ID: 880-12724-1

SDG: 32.81611, -103.621202

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-12724-1	SS07	Solid	03/16/22 11:00	03/22/22 12:24	0.5'
880-12724-2	SS08	Solid	03/16/22 11:02	03/22/22 12:24	0.5'
880-12724-3	SS09	Solid	03/16/22 11:06	03/22/22 12:24	0.5'
880-12724-4	SS10	Solid	03/16/22 11:10	03/22/22 12:24	0.5'

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334 Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296 Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199 Phoenix AZ (480) 355-0900



Work Order No:

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 880-12724-1

SDG Number: 32.81611, -103.621202

List Source: Eurofins Midland

List Number: 1

Login Number: 12724

Creator: Rodriguez, Leticia

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

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-12725-1 Client Project/Site: Leamex 8 Battery

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

Attn: Kalei Jennings

MAMER

Authorized for release by: 3/31/2022 5:07:26 PM Jessica Kramer, Project Manager (432)704-5440 jessica.kramer@eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at:

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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: 880-12725-1

Project/Site: Leamex 8 Battery

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-12725-1

Project/Site: Leamex 8 Battery

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac Dilution Factor

Detection Limit (DoD/DOE) DL

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NFG 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)

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

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

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TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc. Job ID: 880-12725-1

Project/Site: Leamex 8 Battery

Job ID: 880-12725-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-12725-1

Receipt

The samples were received on 3/22/2022 12:24 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.3°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.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike duplicate (MSD) recoveries for preparation batch 880-22470 and analytical batch 880-22721 were outside control limits. Non-homogeneity is 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.

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Matrix: Solid

Lab Sample ID: 880-12725-1

Client Sample Results

Client: WSP USA Inc. Job ID: 880-12725-1

Project/Site: Leamex 8 Battery

Client Sample ID: PH04

Date Collected: 03/17/22 09:17 Date Received: 03/22/22 12:24

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/25/22 12:30	03/26/22 22:49	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/25/22 12:30	03/26/22 22:49	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/25/22 12:30	03/26/22 22:49	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/25/22 12:30	03/26/22 22:49	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/25/22 12:30	03/26/22 22:49	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		03/25/22 12:30	03/26/22 22:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			03/25/22 12:30	03/26/22 22:49	1
1,4-Difluorobenzene (Surr)	110		70 - 130			03/25/22 12:30	03/26/22 22:49	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			03/28/22 13:11	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/23/22 12:18	1
Method: 8015B NM - Diesel Ran	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		03/22/22 14:00	03/22/22 18:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/22/22 14:00	03/22/22 18:13	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/22/22 14:00	03/22/22 18:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			03/22/22 14:00	03/22/22 18:13	1
o-Terphenyl	100		70 - 130			03/22/22 14:00	03/22/22 18:13	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: PH04A

Date Collected: 03/17/22 13:23

Lab Sample ID: 880-12725-2

Matrix: Solid

Date Collected: 03/17/22 13:23 Date Received: 03/22/22 12:24

Sample Depth: 3'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/25/22 12:30	03/26/22 23:10	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/25/22 12:30	03/26/22 23:10	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/25/22 12:30	03/26/22 23:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/25/22 12:30	03/26/22 23:10	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/25/22 12:30	03/26/22 23:10	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/25/22 12:30	03/26/22 23:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			03/25/22 12:30	03/26/22 23:10	1

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery Client Sample ID: PH04A

Date Collected: 03/17/22 13:23

Lab Sample ID: 880-12725-2

Matrix: Solid

Job ID: 880-12725-1

Date Received: 03/22/22 12:24 Sample Depth: 3'

Method: 8021B -	Volatile Organic	Compounds	(GC)	(Continued)	
Mictiliou. OUZ ID	· Voiatile Organic	Compounds	1001	(Continueu)	,

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	109		70 - 130	03/25/22 12:30	03/26/22 23:10	1

ı						
ı	Mothod:	Total	RTFY.	- Total	RTFY	Calculation
ı	mictilou.	lotai	DIEK.	lotai	DILA	Galculation

Analyte	Result Qualit		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402 U	0.00402	mg/Kg			03/28/22 13:11	1

Mothod: 8015 NM - Diccol	Pango Organice (DPO) (CC)	

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	ma/Ka			03/23/22 12:18	1

Mathadi 001ED	NM Discal Day	an Organian	(DBO) (CC)
Method: 8015B	nivi - Diesei Kai	ide Ordanics	IDKUI IGGI

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/22/22 14:00	03/22/22 18:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/22/22 14:00	03/22/22 18:33	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/22/22 14:00	03/22/22 18:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	_	03/22/22 14:00	03/22/22 18:33	1
o-Terphenyl	102		70 - 130		03/22/22 14:00	03/22/22 18:33	1

Method: 300.0 - Anions, lor	Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1650	24.9	mg/Kg		_	03/31/22 13:23	5

Client Sample ID: PH04B Lab Sample ID: 880-12725-3 Matrix: Solid

Date Collected: 03/17/22 14:15 Date Received: 03/22/22 12:24

Sample Depth: 5'

	,	/						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/25/22 12:30	03/26/22 23:30	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/25/22 12:30	03/26/22 23:30	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/25/22 12:30	03/26/22 23:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/25/22 12:30	03/26/22 23:30	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/25/22 12:30	03/26/22 23:30	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		03/25/22 12:30	03/26/22 23:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			03/25/22 12:30	03/26/22 23:30	1
1,4-Difluorobenzene (Surr)	108		70 - 130			03/25/22 12:30	03/26/22 23:30	1

Mothod:	Total RTEY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			03/28/22 13:11	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/23/22 12:18	1

Client Sample Results

Client: WSP USA Inc. Job ID: 880-12725-1

Project/Site: Leamex 8 Battery

Client Sample ID: PH04B

Date Collected: 03/17/22 14:15 Date Received: 03/22/22 12:24

Sample Depth: 5'

Lab Samp	le ID:	880-1	2725-3
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Matrix: Solid

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/22/22 14:00	03/22/22 18:54	
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/22/22 14:00	03/22/22 18:54	
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/22/22 14:00	03/22/22 18:54	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	99		70 - 130			03/22/22 14:00	03/22/22 18:54	
o-Terphenyl	100		70 - 130			03/22/22 14:00	03/22/22 18:54	
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	329		4.99	mg/Kg			03/31/22 13:31	

Lab Sample ID: 880-12725-4 **Client Sample ID: PH04C**

Date Collected: 03/21/22 08:34

Date Received: 03/22/22 12:24

Sample Depth: 6'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/25/22 12:30	03/26/22 23:51	
Toluene	<0.00198	U	0.00198	mg/Kg		03/25/22 12:30	03/26/22 23:51	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/25/22 12:30	03/26/22 23:51	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/25/22 12:30	03/26/22 23:51	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/25/22 12:30	03/26/22 23:51	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		03/25/22 12:30	03/26/22 23:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			03/25/22 12:30	03/26/22 23:51	1
1,4-Difluorobenzene (Surr)	108		70 - 130			03/25/22 12:30	03/26/22 23:51	1
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			03/28/22 13:11	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH		Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/23/22 12:18	Dil Fac
Total TPH	<49.9	Qualifier U			<u>D</u>	Prepared		
Total TPH Method: 8015B NM - Diesel Rang	<49.9 ge Organics (Di	Qualifier U			<u>D</u>	Prepared Prepared		
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<49.9 ge Organics (Di	Qualifier U RO) (GC) Qualifier	49.9	mg/Kg		<u> </u>	03/23/22 12:18	1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 ge Organics (DI Result	Qualifier U RO) (GC) Qualifier U	49.9	mg/Kg		Prepared	03/23/22 12:18 Analyzed	Dil Fac
	<49.9 ge Organics (DI Result <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9	mg/Kg Unit mg/Kg		Prepared 03/22/22 14:00	03/23/22 12:18 Analyzed 03/22/22 19:15	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 ge Organics (DI Result <49.9 <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/22/22 14:00 03/22/22 14:00	03/23/22 12:18 Analyzed 03/22/22 19:15 03/22/22 19:15	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 ge Organics (DI Result <49.9 <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/22/22 14:00 03/22/22 14:00	03/23/22 12:18 Analyzed 03/22/22 19:15 03/22/22 19:15	1 Dil Fac

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Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 880-12725-1

Project/Site: Leamex 8 Battery

Client Sample ID: PH04C Lab Sample ID: 880-12725-4

Date Collected: 03/21/22 08:34 Matrix: Solid

Date Received: 03/22/22 12:24

Sample Depth: 6'

Method: 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	124	4.97	mg/Kg			03/31/22 13:40	1	

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12

13

Surrogate Summary

Client: WSP USA Inc. Job ID: 880-12725-1

Project/Site: Leamex 8 Battery

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12547-A-1-U MS	Matrix Spike	103	110	
880-12547-A-1-V MSD	Matrix Spike Duplicate	107	112	
880-12725-1	PH04	108	110	
880-12725-2	PH04A	106	109	
880-12725-3	PH04B	103	108	
880-12725-4	PH04C	107	108	
LCS 880-22286/1-A	Lab Control Sample	108	112	
LCSD 880-22286/2-A	Lab Control Sample Dup	111	111	
MB 880-22286/5-A	Method Blank	101	103	
Surrogate Legend				
BFB = 4-Bromofluorobenz	ene (Surr)			

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		1CO1	OTPH1				
Lab Sample ID	Client Sample ID	(70-130)	(70-130)				
880-12699-A-1-D MS	Matrix Spike	108	88				
880-12699-A-1-E MSD	Matrix Spike Duplicate	93	76				
880-12725-1	PH04	98	100				
880-12725-2	PH04A	102	102				
880-12725-3	PH04B	99	100				
880-12725-4	PH04C	101	98				
LCS 880-22119/2-A	Lab Control Sample	121	114				
LCSD 880-22119/3-A	Lab Control Sample Dup	120	111				
MB 880-22119/1-A	Method Blank	107	112				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 880-12725-1

Project/Site: Leamex 8 Battery

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22286/5-A

Analysis Batch: 22424

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22286

	мв	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/25/22 12:30	03/26/22 20:25	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/25/22 12:30	03/26/22 20:25	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/25/22 12:30	03/26/22 20:25	1

Lab Sample ID: LCS 880-22286/1-A

Matrix: Solid

Analysis Batch: 22424

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 22286

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1052 mg/Kg 105 70 - 130 Toluene 0.100 0.1048 mg/Kg 105 70 - 130 0.100 0.1083 108 Ethylbenzene mg/Kg 70 - 130 0.200 0.2283 70 - 130 m-Xylene & p-Xylene mg/Kg 114 0.100 0.1097 70 - 130 o-Xylene mg/Kg 110

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-22286/2-A

Matrix: Solid

Analysis Batch: 22424

	Client Sam	ple ID: Lab	Control Sam	ple Dup
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Prep Type: Total/NA

Prep Batch: 22286

RPD %Rec.

Analyte	Added	Result Qualifier	Unit	D %Re	c Limits	RPD	Limit
Benzene	0.100	0.1058	mg/Kg	10	6 70 - 130	0	35
Toluene	0.100	0.1063	mg/Kg	10	6 70 - 130	1	35
Ethylbenzene	0.100	0.1099	mg/Kg	11	0 70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2326	mg/Kg	11	6 70 - 130	2	35
o-Xylene	0.100	0.1125	mg/Kg	11	3 70 - 130	3	35

Spike

LCSD LCSD

LCSD LCSD

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

Lab Sample ID: 880-12547-A-1-U MS

Matrix: Solid

Analysis Batch: 22424

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 22286

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0996	0.08375		mg/Kg		84	70 - 130	
Toluene	0.00232		0.0996	0.08300		mg/Kg		81	70 - 130	

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Client Sample ID: Matrix Spike

Client Sample ID: Matrix Snike Dunlicate

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22119

Prep Type: Total/NA

Prep Batch: 22286

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12725-1

Project/Site: Leamex 8 Battery

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

Lab Sample ID: 880-12547-A-1-U MS **Matrix: Solid**

Analysis Batch: 22424

Samp	e Sample	Spike	MS	MS				%Rec.
Analyte Resu	t Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene <0.0020	1 U	0.0996	0.08902		mg/Kg		88	70 - 130
m-Xylene & p-Xylene 0.0061	3	0.199	0.1826		mg/Kg		89	70 - 130
o-Xylene 0.0022	1	0.0996	0.09140		mg/Kg		90	70 - 130

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 103 1,4-Difluorobenzene (Surr) 70 - 130 110

Lab Sample ID: 880-12547-A-1-V MSD

Α

Lub Cumpic ID. 000-12047-A-1-V MOD	Cheft Cample 13: Matrix Opine Bupheate
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 22424	Prep Batch: 22286

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits Benzene <0.00201 U 0.100 0.08729 mg/Kg 87 70 - 130 35 0.00232 Toluene 0.100 0.08596 mg/Kg 83 70 - 130 35 Ethylbenzene <0.00201 0.100 0.09215 90 70 - 130 35 mg/Kg 3 0.00613 0.200 91 70 - 130 35 m-Xylene & p-Xylene 0.1891 mg/Kg 92 0.00221 0.100 0.09486 70 - 130 o-Xylene mg/Kg

MSD MSD Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 107 1,4-Difluorobenzene (Surr) 112 70 - 130

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

Lab Sample ID: MB 880-22119/1-A

Matrix: Solid

Analysis Batch: 22114

	МВ	MB					•	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	Ū	50.0	mg/Kg		03/22/22 08:40	03/22/22 10:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/22/22 08:40	03/22/22 10:58	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/22/22 08:40	03/22/22 10:58	1

	МВ	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	03/22/22 08:40	03/22/22 10:58	1
o-Terphenyl	112		70 - 130	03/22/22 08:40	03/22/22 10:58	1

Lab Sample ID: LCS 880-22119/2-A

Matrix: Solid

Analysis Batch: 22114							-	p Batch: 22119
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	949.0		mg/Kg		95	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1206		mg/Kg		121	70 - 130	
C10-C28)								

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Client Sample ID: Lab Control Sample Prep Type: Total/NA Client: WSP USA Inc. Job ID: 880-12725-1

Limits

70 - 130

70 - 130

Project/Site: Leamex 8 Battery

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

LCS LCS %Recovery Qualifier

121

114

Lab Sample ID: LCS 880-22119/2-A **Matrix: Solid**

Analysis Batch: 22114

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22119

Lab Sample ID: LCSD 880-22119/3-A

Matrix: Solid

Surrogate

o-Terphenyl

1-Chlorooctane

Analysis Batch: 22114

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22119

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 70 - 130 Gasoline Range Organics 1000 871.9 87 8 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1154 mg/Kg 20 115 70 - 130C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: 880-12699-A-1-D MS

Matrix: Solid

Analysis Batch: 22114

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 22119

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.8	U	998	1048		mg/Kg		105	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.8	U	998	1016		mg/Kg		98	70 - 130	
C10-C28)										

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenvl	88		70 - 130

Lab Sample ID: 880-12699-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 22114

Prep Type: Total/NA

Prep Batch: 22119

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	897.5		mg/Kg		90	70 - 130	15	20
Diesel Range Organics (Over	<49.8	U	999	877.6		mg/Kg		84	70 - 130	15	20
C10-C28)											

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	76		70 - 130

Client Sample ID: Method Blank

Prep Type: Soluble

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12725-1

Project/Site: Leamex 8 Battery

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22470/1-A

Matrix: Solid Analysis Batch: 22721

	MIR MIR						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			03/31/22 11:36	1

Lab Sample ID: LCS 880-22470/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22721

	Зріке	LCS	LUS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	234.5		mg/Kg		94	90 - 110	

Lab Sample ID: LCSD 880-22470/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22721

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit Limits **RPD** Limit Chloride 250 234.4 90 - 110 mg/Kg

Lab Sample ID: 880-12724-A-1-E MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 22721

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	22700	F1	12500	35690		mg/Kg		105	90 - 110	

Lab Sample ID: 880-12724-A-1-F MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 22721

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	22700	F1	12500	33770	F1	mg/Kg		89	90 - 110	6	20

QC Association Summary

Client: WSP USA Inc. Job ID: 880-12725-1

Project/Site: Leamex 8 Battery

GC VOA

Prep Batch: 22286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12725-1	PH04	Total/NA	Solid	5035	
880-12725-2	PH04A	Total/NA	Solid	5035	
880-12725-3	PH04B	Total/NA	Solid	5035	
880-12725-4	PH04C	Total/NA	Solid	5035	
MB 880-22286/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22286/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22286/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12547-A-1-U MS	Matrix Spike	Total/NA	Solid	5035	
880-12547-A-1-V MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 22424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12725-1	PH04	Total/NA	Solid	8021B	22286
880-12725-2	PH04A	Total/NA	Solid	8021B	22286
880-12725-3	PH04B	Total/NA	Solid	8021B	22286
880-12725-4	PH04C	Total/NA	Solid	8021B	22286
MB 880-22286/5-A	Method Blank	Total/NA	Solid	8021B	22286
LCS 880-22286/1-A	Lab Control Sample	Total/NA	Solid	8021B	22286
LCSD 880-22286/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22286
880-12547-A-1-U MS	Matrix Spike	Total/NA	Solid	8021B	22286
880-12547-A-1-V MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22286

Analysis Batch: 22491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
880-12725-1	PH04	Total/NA	Solid	Total BTEX
880-12725-2	PH04A	Total/NA	Solid	Total BTEX
880-12725-3	PH04B	Total/NA	Solid	Total BTEX
880-12725-4	PH04C	Total/NA	Solid	Total BTEX

GC Semi VOA

Analysis Batch: 22114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12725-1	PH04	Total/NA	Solid	8015B NM	22119
880-12725-2	PH04A	Total/NA	Solid	8015B NM	22119
880-12725-3	PH04B	Total/NA	Solid	8015B NM	22119
880-12725-4	PH04C	Total/NA	Solid	8015B NM	22119
MB 880-22119/1-A	Method Blank	Total/NA	Solid	8015B NM	22119
LCS 880-22119/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22119
LCSD 880-22119/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22119
880-12699-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	22119
880-12699-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22119

Prep Batch: 22119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12725-1	PH04	Total/NA	Solid	8015NM Prep	
880-12725-2	PH04A	Total/NA	Solid	8015NM Prep	
880-12725-3	PH04B	Total/NA	Solid	8015NM Prep	
880-12725-4	PH04C	Total/NA	Solid	8015NM Prep	
MB 880-22119/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22119/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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4.0

14

QC Association Summary

Client: WSP USA Inc. Job ID: 880-12725-1

Project/Site: Leamex 8 Battery

GC Semi VOA (Continued)

Prep Batch: 22119 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-22119/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12699-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12699-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
880-12725-1	PH04	Total/NA	Solid	8015 NM
880-12725-2	PH04A	Total/NA	Solid	8015 NM
880-12725-3	PH04B	Total/NA	Solid	8015 NM
880-12725-4	PH04C	Total/NA	Solid	8015 NM

HPLC/IC

Leach Batch: 22470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12725-1	PH04	Soluble	Solid	DI Leach	
880-12725-2	PH04A	Soluble	Solid	DI Leach	
880-12725-3	PH04B	Soluble	Solid	DI Leach	
880-12725-4	PH04C	Soluble	Solid	DI Leach	
MB 880-22470/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-12724-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-12724-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 22721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12725-1	PH04	Soluble	Solid	300.0	22470
880-12725-2	PH04A	Soluble	Solid	300.0	22470
880-12725-3	PH04B	Soluble	Solid	300.0	22470
880-12725-4	PH04C	Soluble	Solid	300.0	22470
MB 880-22470/1-A	Method Blank	Soluble	Solid	300.0	22470
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	300.0	22470
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22470
880-12724-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	22470
880-12724-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	22470

Job ID: 880-12725-1

Project/Site: Leamex 8 Battery

Client Sample ID: PH04

Client: WSP USA Inc.

Lab Sample ID: 880-12725-1

Matrix: Solid

Date Collected: 03/17/22 09:17 Date Received: 03/22/22 12:24

	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	22286	03/25/22 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/26/22 22:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22491	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22198	03/23/22 12:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22119	03/22/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22114	03/22/22 18:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		20			22721	03/31/22 12:56	SC	XEN MID

Client Sample ID: PH04A Lab Sample ID: 880-12725-2

Matrix: Solid

Date Collected: 03/17/22 13:23 Date Received: 03/22/22 12:24

	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	22286	03/25/22 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/26/22 23:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22491	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22198	03/23/22 12:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22119	03/22/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22114	03/22/22 18:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		5			22721	03/31/22 13:23	SC	XEN MID

Client Sample ID: PH04B Lab Sample ID: 880-12725-3 Date Collected: 03/17/22 14:15 **Matrix: Solid**

Date Received: 03/22/22 12:24

	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	22286	03/25/22 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/26/22 23:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22491	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22198	03/23/22 12:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22119	03/22/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22114	03/22/22 18:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		1			22721	03/31/22 13:31	SC	XEN MID

Client Sample ID: PH04C Lab Sample ID: 880-12725-4 Date Collected: 03/21/22 08:34 **Matrix: Solid**

Date Received: 03/22/22 12:24

	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	22286	03/25/22 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/26/22 23:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22491	03/28/22 13:11	AJ	XEN MID

Eurofins Midland

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Lab Chronicle

Client: WSP USA Inc. Job ID: 880-12725-1

Project/Site: Leamex 8 Battery

Client Sample ID: PH04C Lab Sample ID: 880-12725-4 Date Collected: 03/21/22 08:34

Matrix: Solid

Date Received: 03/22/22 12:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22198	03/23/22 12:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22119	03/22/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22114	03/22/22 19:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		1			22721	03/31/22 13:40	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 880-12725-1

Project/Site: Leamex 8 Battery

Laboratory: Eurofins Midland

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

Authority Texas		ogram	Identification Number	Expiration Date 06-30-22	
		ELAP	T104704400-21-22		
The following analytes the agency does not of	• •	it the laboratory is not certif	ed by the governing authority. This list ma	ay include analytes fo	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		

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Method Summary

Client: WSP USA Inc. Job ID: 880-12725-1

Project/Site: Leamex 8 Battery

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

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Sample Summary

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

Job ID: 880-12725-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-12725-1	PH04	Solid	03/17/22 09:17	03/22/22 12:24	1'
880-12725-2	PH04A	Solid	03/17/22 13:23	03/22/22 12:24	3'
880-12725-3	PH04B	Solid	03/17/22 14:15	03/22/22 12:24	5'
880-12725-4	PH04C	Solid	03/21/22 08:34	03/22/22 12:24	6'

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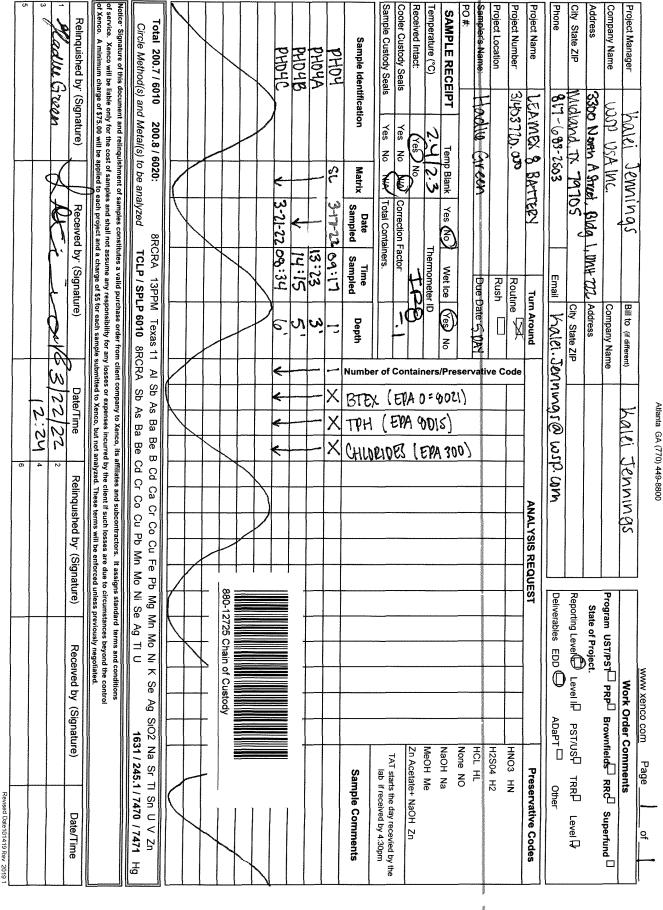
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X I Z I CRIES

Chain of Custody

Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6701 Houston TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio TX (210) 509-3334 Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199 Phoenix AZ (480) 355-0900 Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296



Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 880-12725-1

Login Number: 12725 List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-12798-1

Laboratory Sample Delivery Group: 32.816111, -103.621202

Client Project/Site: Leamex 8 Battery

For:

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

Attn: Kalei Jennings

JURAMER

Authorized for release by: 3/31/2022 5:07:56 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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Released to Imaging: 9/21/2022 11:05:49 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: Leamex 8 Battery
SD0

Laboratory Job ID: 880-12798-1 SDG: 32.816111, -103.621202

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Definitions/Glossary

 Client: WSP USA Inc.
 Job ID: 880-12798-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

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Qualifiers

GC VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

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

HPLC/IC

Qualifier Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

Job ID: 880-12798-1

SDG: 32.816111, -103.621202

Job ID: 880-12798-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-12798-1

Receipt

The sample was received on 3/23/2022 2:11 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C

GC VOA

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

GC Semi VOA

Method 8015MOD NM: The laboratory control sample (LCS) associated with preparation batch 880-22247 and analytical batch 880-22239 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike duplicate (MSD) recoveries for preparation batch 880-22470 and analytical batch 880-22721 were outside control limits. Non-homogeneity is 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.

Matrix: Solid

Lab Sample ID: 880-12798-1

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-12798-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

Client Sample ID: PH01C

Date Collected: 03/22/22 09:05 Date Received: 03/23/22 14:11

Sample Depth: 9

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/24/22 07:30	03/24/22 11:44	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/24/22 07:30	03/24/22 11:44	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/24/22 07:30	03/24/22 11:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/24/22 07:30	03/24/22 11:44	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/24/22 07:30	03/24/22 11:44	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		03/24/22 07:30	03/24/22 11:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			03/24/22 07:30	03/24/22 11:44	1
1,4-Difluorobenzene (Surr)	112		70 - 130			03/24/22 07:30	03/24/22 11:44	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	mg/Kg			03/24/22 16:39	1
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/24/22 19:53	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		03/24/22 08:53	03/24/22 17:48	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/24/22 08:53	03/24/22 17:48	1
5 5 ,	<50.0 <50.0		50.0 50.0	mg/Kg mg/Kg		03/24/22 08:53 03/24/22 08:53	03/24/22 17:48	1
C10-C28)		U						1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0			03/24/22 08:53	03/24/22 17:48	1 1 1 <i>Dil Fac</i>
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 %Recovery	U	50.0			03/24/22 08:53 Prepared	03/24/22 17:48 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 **Recovery 106 106	U Qualifier	50.0 Limits 70 - 130			03/24/22 08:53 Prepared 03/24/22 08:53	03/24/22 17:48 Analyzed 03/24/22 17:48	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 **Recovery 106 106 comatography -	U Qualifier	50.0 Limits 70 - 130		D	03/24/22 08:53 Prepared 03/24/22 08:53	03/24/22 17:48 Analyzed 03/24/22 17:48	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 880-12798-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

imits)

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)	
880-12798-1	PH01C	106	106	
880-12803-A-1-C MS	Matrix Spike	118	98	
880-12803-A-1-D MSD	Matrix Spike Duplicate	104	85	
LCS 880-22247/2-A	Lab Control Sample	111	105	
LCSD 880-22247/3-A	Lab Control Sample Dup	95	88	
MB 880-22247/1-A	Method Blank	119	124	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: WSP USA Inc. Job ID: 880-12798-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22227/5-A

Lab Sample ID: LCS 880-22227/1-A

Matrix: Solid

Matrix: Solid Analysis Batch: 22236 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22227

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/24/22 07:30	03/24/22 11:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/24/22 07:30	03/24/22 11:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/24/22 07:30	03/24/22 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/24/22 07:30	03/24/22 11:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/24/22 07:30	03/24/22 11:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/24/22 07:30	03/24/22 11:23	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/24/22 07:	30 03/24/22 11:23	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/24/22 07:	30 03/24/22 11:23	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22227

Analysis Batch: 22236 Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09157 mg/Kg 92 70 - 130 Toluene 0.100 0.09172 mg/Kg 92 70 - 130 0.100 96 Ethylbenzene 0.09572 mg/Kg 70 - 130 0.200 0.1969 98 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.09719 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	111	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 22236

Lab Sample ID: LCSD 880-22227/2-A

Prep Type: Total/NA Prep Batch: 22227

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08966		mg/Kg		90	70 - 130	2	35
Toluene	0.100	0.08916		mg/Kg		89	70 - 130	3	35
Ethylbenzene	0.100	0.09231		mg/Kg		92	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1911		mg/Kg		96	70 - 130	3	35
o-Xylene	0.100	0.09426		mg/Kg		94	70 - 130	3	35

LCSD LCSD

Surrogate	%Recovery C	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 880-12798-1 MS

Matrix: Solid

Analysis Batch: 22236

Client Sample ID: PH01C Prep Type: Total/NA

Prep Batch: 22227

-	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U	0.0998	0.1087		mg/Kg		109	70 - 130	
Toluene	<0.00198	U	0.0998	0.09832		mg/Kg		98	70 - 130	

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12798-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

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

M

Analysis Batch: 22236

Lab Sample ID: 880-12798-1 MS	Client Sample ID: PH01C
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 22236	Prep Batch: 22227

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00198 U 0.0998 0.1010 101 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00396 0.200 0.2547 mg/Kg 127 70 - 130 <0.00198 U 0.0998 o-Xylene 0.1181 70 - 130 mg/Kg 118

MS MS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-12798-1 MSD

Matrix: Solid

Analysis Batch: 22236

Client Sample ID: PH01C Prep Type: Total/NA

Prep Batch: 22227

Sample Sample Spike MSD MSD %Rec. Result Qualifier Added Result Qualifier %Rec RPD Limit Analyte Unit Limits 0.0990 Benzene <0.00198 U 0.08779 mg/Kg 89 70 - 130 21 35 Toluene <0.00198 0.08896 0.0990 mg/Kg 89 70 - 130 10 35 Ethylbenzene <0.00198 U 0.0990 0.09661 mg/Kg 97 70 - 130 35 4 0.198 0.1949 70 - 130 35 m-Xylene & p-Xylene <0.00396 U mg/Kg 98 27 <0.00198 U 0.0990 0.1062 70 - 130 o-Xylene mg/Kg 107 11

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

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

Lab Sample ID: MB 880-22247/1-A

Matrix: Solid

Analysis Batch: 22239

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

Prep Batch: 22247

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/24/22 08:53	03/24/22 11:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/24/22 08:53	03/24/22 11:17	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/24/22 08:53	03/24/22 11:17	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	03/24/22 08:53	03/24/22 11:17	1
o-Terphenyl	124		70 - 130	03/24/22 08:5	03/24/22 11:17	1

Lab Sample ID: LCS 880-22247/2-A

Analysis Batch: 22239

Matrix: Solid

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

Prep Batch: 22247

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	769.8		mg/Kg		77	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1087		mg/Kg		109	70 - 130	
C10-C28)								

Limits

70 - 130

Client: WSP USA Inc. Job ID: 880-12798-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

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

LCS LCS

%Recovery Qualifier

Lab Sample ID: LCS 880-22247/2-A

Lab Sample ID: LCSD 880-22247/3-A

Matrix: Solid

Matrix: Solid

Surrogate

Analysis Batch: 22239

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22247

1-Chlorooctane 111

o-Terphenyl 105 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22247

Analysis Batch: 22239 Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 671.6 67 70 - 13014 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 92 918.7 mg/Kg 70 - 13017 20

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 95 70 - 130 1-Chlorooctane 88 70 - 130 o-Terphenyl

Lab Sample ID: 880-12803-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 22239

Prep Type: Total/NA

Prep Batch: 22247

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits D Gasoline Range Organics <49.8 U*-998 1227 mg/Kg 120 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 998 1212 mg/Kg 119 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 118 70 - 130 o-Terphenyl 98

Lab Sample ID: 880-12803-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 22239

Prep Type: Total/NA

Prep Batch: 22247 RPD %Rec.

Sample Sample MSD MSD Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U *-999 mg/Kg Gasoline Range Organics <49.8 1018 99 70 - 130 19 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 999 1064 mg/Kg 104 70 - 130 13 20 C10-C28)

MSD MSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 104 70 - 130 85 70 - 130 o-Terphenyl

03/31/22 11:36

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Prep Type: Soluble

%Rec.

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12798-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22470/1-A

Matrix: Solid

Analyte

Chloride

Analysis Batch: 22721

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

MB MB Dil Fac Result Qualifier RL Unit D Prepared Analyzed mg/Kg

Lab Sample ID: LCS 880-22470/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

5.00

Analysis Batch: 22721

Spike LCS LCS Added Analyte Result Qualifier Unit D

<5.00 U

%Rec Limits Chloride 250 234.5 mg/Kg 94 90 - 110

Lab Sample ID: LCSD 880-22470/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22721

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 234.4 mg/Kg 90 - 110

Lab Sample ID: 880-12724-A-1-E MS

Matrix: Solid

Analysis Batch: 22721

MS MS Sample Sample Spike %Rec. Analyte Result Qualifier Added %Rec Result Qualifier Unit Limits 12500 35690 Chloride 22700 105 90 - 110 mg/Kg

Lab Sample ID: 880-12724-A-1-F MSD

Matrix: Solid

Analysis Batch: 22721

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 22700 F1 12500 33770 F1 Chloride mg/Kg 89 90 - 110 6 20

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 880-12798-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

GC VOA

Prep Batch: 22227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12798-1	PH01C	Total/NA	Solid	5035	
MB 880-22227/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22227/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22227/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12798-1 MS	PH01C	Total/NA	Solid	5035	
880-12798-1 MSD	PH01C	Total/NA	Solid	5035	

Analysis Batch: 22236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12798-1	PH01C	Total/NA	Solid	8021B	22227
MB 880-22227/5-A	Method Blank	Total/NA	Solid	8021B	22227
LCS 880-22227/1-A	Lab Control Sample	Total/NA	Solid	8021B	22227
LCSD 880-22227/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22227
880-12798-1 MS	PH01C	Total/NA	Solid	8021B	22227
880-12798-1 MSD	PH01C	Total/NA	Solid	8021B	22227

Analysis Batch: 22301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12798-1	PH01C	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22239

_ •					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Pro	ep Batch
880-12798-1	PH01C	Total/NA	Solid	8015B NM	22247
MB 880-22247/1-A	Method Blank	Total/NA	Solid	8015B NM	22247
LCS 880-22247/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22247
LCSD 880-22247/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22247
880-12803-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	22247
880-12803-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22247

Prep Batch: 22247

Lab Sample ID 880-12798-1	Client Sample ID PH01C	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-22247/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22247/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22247/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12803-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12803-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12798-1	PH01C	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12798-1	PH01C	Soluble	Solid	DI Leach	
MB 880-22470/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

 Client: WSP USA Inc.
 Job ID: 880-12798-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

HPLC/IC (Continued)

Leach Batch: 22470 (Continued)

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	880-12724-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
l	880-12724-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 22721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12798-1	PH01C	Soluble	Solid	300.0	22470
MB 880-22470/1-A	Method Blank	Soluble	Solid	300.0	22470
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	300.0	22470
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22470
880-12724-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	22470
880-12724-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	22470

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Lab Chronicle

 Client: WSP USA Inc.
 Job ID: 880-12798-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

Client Sample ID: PH01C

Lab Sample ID: 880-12798-1

Matrix: Solid

Date Collected: 03/22/22 09:05 Date Received: 03/23/22 14:11

	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	22227	03/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22236	03/24/22 11:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22301	03/24/22 16:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22320	03/24/22 19:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22247	03/24/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22239	03/24/22 17:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		1			22721	03/31/22 13:49	SC	XEN MID

Laboratory References:

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

Eurofins Midland

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Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 880-12798-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report, bu	t the laboratory is not certif	ied by the governing authority. This list ma	av include analytes for wh
the agency does not of	fer certification.	•	, , ,	.,
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	-,
0 ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

Job ID: 880-12798-1

SDG: 32.816111, -103.621202

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
3015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

Job ID: 880-12798-1

SDG: 32.816111, -103.621202

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-12798-1	PH01C	Solid	03/22/22 09:05	03/23/22 14:11	9

Company Name Project Manager

Kaleı Jennings

Bill to (if different)

Company Name

WSP USA Inc Kaleı Jennings

Program UST/PST PRP Brownfield RRC Superfund

Work Order Comments

www xenco com

Page

WSP USA Inc

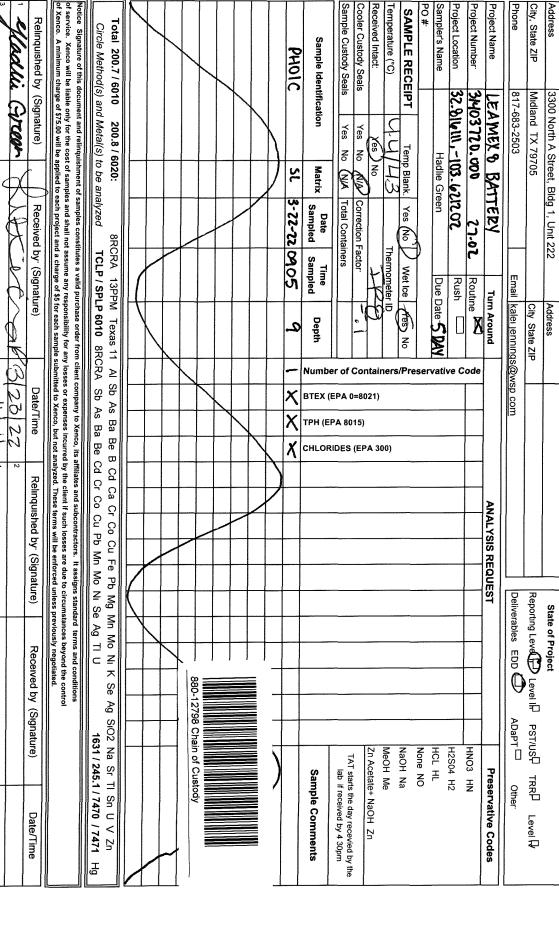
, Bldg 1, Unit 222

ddress

Chain of Custody

Tampa FL (813) 620-2000 Taliahassee FL (850) 756-0747 Deiray Beach FL (561) 689-6701 Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334 Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199 Phoenix AZ (480) 355-0900 Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296

Atlanta GA (770) 449-8800



Date101419 Rev 2019

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 880-12798-1

SDG Number: 32.816111, -103.621202

List Source: Eurofins Midland

Login Number: 12798 List Number: 1

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or 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 Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

Laboratory Job ID: 880-12799-1

Laboratory Sample Delivery Group: 32.816111, -103.621202

Client Project/Site: Leamex 8 Battery

For:

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

Attn: Kalei Jennings

RAMER

Authorized for release by: 3/31/2022 5:08:17 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

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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.

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

Client: WSP USA Inc.
Laboratory Job ID: 880-12799-1
Project/Site: Leamex 8 Battery
SDG: 32.816111, -103.621202

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-12799-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Qualifiers

GC	VOA
Qual	lifier

*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.

F1 MS and/or MSD recovery exceeds control limits.

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*_	LCS and/or LCSD is outside acceptance limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)

ML MPN

EDL

LOD

LOQ

MCL

MDA

MDC

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

NC Not Calculated

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

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

Minimum Detectable Activity (Radiochemistry)

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

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

Job ID: 880-12799-1 SDG: 32.816111, -103.621202

3DG. 32.0

Job ID: 880-12799-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-12799-1

Receipt

The samples were received on 3/23/2022 2:11 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-22243 and analytical batch 880-22424 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The laboratory control sample (LCS) for preparation batch 880-22418 and analytical batch 880-22425 recovered outside control limits for the following analytes: m-Xylene & p-Xylene and o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-22418 and analytical batch 880-22425 recovered outside control limits for the following analytes: m-Xylene & p-Xylene, o-Xylene, Xylenes, Total and Toluene

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-22418 and analytical batch 880-22425 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-22247 and analytical batch 880-22239 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC

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

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Project/Site: Leamex 8 Battery

Date Received: 03/23/22 14:11

Client: WSP USA Inc.

Job ID: 880-12799-1

SDG: 32.816111, -103.621202

Client Sample ID: PH01 Lab Sample ID: 880-12799-1 Date Collected: 03/17/22 09:03

Matrix: Solid

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 14:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 14:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 14:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/25/22 14:00	03/27/22 14:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 14:27	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/25/22 14:00	03/27/22 14:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			03/25/22 14:00	03/27/22 14:27	1
1,4-Difluorobenzene (Surr)	104		70 - 130			03/25/22 14:00	03/27/22 14:27	1
Method: Total BTEX - Total BTEX Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Total BTEX	Result < 0.00399	U	RL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/28/22 13:11	Dil Fac
Analyte	Result <0.00399 Organics (DR	U (GC)	0.00399	mg/Kg	<u>D</u>	<u> </u>		1
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte	Result <0.00399 Organics (DRO Result	U O) (GC) Qualifier	0.00399 RL		<u>D</u>	Prepared Prepared	03/28/22 13:11 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Range	Result <0.00399 Organics (DR	U O) (GC) Qualifier	0.00399	mg/Kg	_ =	<u> </u>	03/28/22 13:11	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte	Result <0.00399	O) (GC) Qualifier	0.00399 RL	mg/Kg	_ =	<u> </u>	03/28/22 13:11 Analyzed	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH	Result <0.00399 Organics (DR) Result <50.0 Ge Organics (DI)	O) (GC) Qualifier	0.00399 RL	mg/Kg	_ =	<u> </u>	03/28/22 13:11 Analyzed	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range	Result <0.00399 Organics (DR) Result <50.0 Ge Organics (DI)	O) (GC) Qualifier U RO) (GC) Qualifier	0.00399 RL 50.0	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	03/28/22 13:11 Analyzed 03/24/22 19:53	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Result <0.00399 Organics (DRO Result <50.0 ge Organics (DI Result	Qualifier U RO) (GC) Qualifier U Qualifier U V-	0.00399 RL 50.0	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	03/28/22 13:11 Analyzed 03/24/22 19:53 Analyzed	Dil Fac Dil Fac 1 Dil Fac 1

Analyte RL Analyzed 50.0 03/31/22 13:58 Chloride 6440 mg/Kg Client Sample ID: PH01A Lab Sample ID: 880-12799-2

Unit

Limits

70 - 130

70 - 130

%Recovery Qualifier

Result Qualifier

110

111

Date Collected: 03/21/22 10:56 Date Received: 03/23/22 14:11

Released to Imaging: 9/21/2022 11:05:49 AM

Method: 300.0 - Anions, Ion Chromatography - Soluble

Sample Depth: 3

Surrogate

o-Terphenyl

1-Chlorooctane

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/28/22 09:00	03/28/22 20:40	1
Toluene	<0.00200	U *1	0.00200	mg/Kg		03/28/22 09:00	03/28/22 20:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/28/22 09:00	03/28/22 20:40	1
m-Xylene & p-Xylene	<0.00401	U *+ *1	0.00401	mg/Kg		03/28/22 09:00	03/28/22 20:40	1
o-Xylene	<0.00200	U *+ *1	0.00200	mg/Kg		03/28/22 09:00	03/28/22 20:40	1
Xylenes, Total	<0.00401	U *+ *1	0.00401	mg/Kg		03/28/22 09:00	03/28/22 20:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/28/22 09:00	03/28/22 20:40	1

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Dil Fac

Dil Fac

Matrix: Solid

Analyzed

03/24/22 18:09

03/24/22 18:09

Prepared

03/24/22 08:53

03/24/22 08:53

Prepared

D

Matrix: Solid

Lab Sample ID: 880-12799-2

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-12799-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

Client Sample ID: PH01A

Date Collected: 03/21/22 10:56 Date Received: 03/23/22 14:11

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds	(GC) (Continued)
Method. 002 1D - Volatile Organic Compounds	(OO) (Oolillillided)

Surrogate	%Recovery Qualif	er Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99	70 - 130	03/28/22 09:00	03/28/22 20:40	1

Method: To	ntal RTFY.	Total BTEX	Calculation
mictilou. It	Jiai Di La	TOTAL DIEX	Odiculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401 U	0.00401	mg/Kg			03/28/22 13:11	1

П			
	Method: 8015 NM - Diesel Range Organics (DRO) (CC	
ı	Welliou. 00 13 NW - Diesel Kalige Organics (DRO)	901	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/24/22 19:53	1

Method: 8015B	NM - Diesel	Range Or	ranice	(DRO)	(GC)	ľ
Method. ou 136	MINI - DIESEI	Kange Or	gariics	(DKO)	(GC)	ı

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *-	50.0	mg/Kg		03/24/22 08:53	03/24/22 18:29	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/24/22 08:53	03/24/22 18:29	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/24/22 08:53	03/24/22 18:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			03/24/22 08:53	03/24/22 18:29	1

1-Chlorooctane	107	70 - 130	03/24/22 08:53
o-Terphenyl	108	70 - 130	03/24/22 08:53

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorido	5140		49 9	ma/Ka			03/31/22 14:06	10

Client Sample ID: PH01B

Date Collected: 03/21/22 11:51

Lab Sample ID: 880-12799-3

Matrix: Solid

Date Collected: 03/21/22 11:51 Date Received: 03/23/22 14:11

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

	/							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/25/22 14:00	03/27/22 15:08	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/25/22 14:00	03/27/22 15:08	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/25/22 14:00	03/27/22 15:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/25/22 14:00	03/27/22 15:08	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/25/22 14:00	03/27/22 15:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/25/22 14:00	03/27/22 15:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/25/22 14:00	03/27/22 15:08	1
1,4-Difluorobenzene (Surr)	108		70 - 130			03/25/22 14:00	03/27/22 15:08	1

Mothod:	Total RTEY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/28/22 13:11	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/24/22 19:53	1

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Matrix: Solid

Lab Sample ID: 880-12799-3

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-12799-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

Client Sample ID: PH01B

Date Collected: 03/21/22 11:51 Date Received: 03/23/22 14:11

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *-	49.9	mg/Kg		03/24/22 08:53	03/24/22 18:50	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		03/24/22 08:53	03/24/22 18:50	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/24/22 08:53	03/24/22 18:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130			03/24/22 08:53	03/24/22 18:50	1
o-Terphenyl	127		70 - 130			03/24/22 08:53	03/24/22 18:50	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	2480		24.8	mg/Kg			03/31/22 14:32	5

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Surrogate Summary

Client: WSP USA Inc. Job ID: 880-12799-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12799-1	PH01	102	104	
380-12799-2	PH01A	111	99	
880-12799-3	PH01B	105	108	
880-12893-A-21-D MS	Matrix Spike	116	96	
880-12893-A-21-E MSD	Matrix Spike Duplicate	108	94	
890-2130-A-1-C MS	Matrix Spike	103	96	
890-2130-A-1-D MSD	Matrix Spike Duplicate	103	102	
LCS 880-22243/1-A	Lab Control Sample	103	112	
LCS 880-22418/1-A	Lab Control Sample	105	103	
LCSD 880-22243/2-A	Lab Control Sample Dup	103	113	
LCSD 880-22418/2-A	Lab Control Sample Dup	88	110	
MB 880-22243/5-A	Method Blank	100	102	
MB 880-22286/5-A	Method Blank	101	103	
MB 880-22418/5-A	Method Blank	98	101	
Surrogate Legend				
BFB = 4-Bromofluorober	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12799-1	PH01	110	111	
880-12799-2	PH01A	107	108	
880-12799-3	PH01B	127	127	
880-12803-A-1-C MS	Matrix Spike	118	98	
880-12803-A-1-D MSD	Matrix Spike Duplicate	104	85	
LCS 880-22247/2-A	Lab Control Sample	111	105	
LCSD 880-22247/3-A	Lab Control Sample Dup	95	88	
MB 880-22247/1-A	Method Blank	119	124	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 880-12799-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22243/5-A

Lab Sample ID: LCS 880-22243/1-A

Matrix: Solid

Analysis Batch: 22424

Matrix: Solid Analysis Batch: 22424 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22243

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 13:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/25/22 14:00	03/27/22 13:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/25/22 14:00	03/27/22 13:44	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/25/22 14:00	03/27/22 13:44	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/25/22 14:00	03/27/22 13:44	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22243

Prep Type: Total/NA

Prep Batch: 22243

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1116 mg/Kg 112 70 - 130 0.1083 Toluene 0.100 mg/Kg 108 70 - 130 0.100 0.1073 Ethylbenzene mg/Kg 107 70 - 130 0.200 0.2226 70 - 130 m-Xylene & p-Xylene mg/Kg 111 0.100 0.1106 70 - 130 o-Xylene mg/Kg 111

LCS LCS

Surrogate	%Recovery Qua	alifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCSD 880-22243/2-A

Analysis Batch: 22424

	Spike	LCSD LCSD				%Rec.		RPD
Analyte	Added	Result Qualifi	er Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1245	mg/Kg		124	70 - 130	11	35
Toluene	0.100	0.1183	mg/Kg		118	70 - 130	9	35
Ethylbenzene	0.100	0.1133	mg/Kg		113	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2347	mg/Kg		117	70 - 130	5	35
o-Xylene	0.100	0.1165	mg/Kg		117	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1.4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 890-2130-A-1-C MS

Matrix: Solid

Analysis Batch: 22424

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 22243

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U F1	0.0990	0.01306	F1	mg/Kg		13	70 - 130	
Toluene	<0.00198	U F1	0.0990	0.01961	F1	mg/Kg		20	70 - 130	

Client: WSP USA Inc. Job ID: 880-12799-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

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

Lab Sample ID: 890-2130-A-1-C MS

Matrix: Solid

Analysis Batch: 22424

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 22243

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00198 U F1 0.0990 0.02046 F1 21 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00397 0.198 0.04644 F1 mg/Kg 23 70 - 130 0.0990 o-Xylene <0.00198 UF1 0.02723 F1 mg/Kg 27 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

Lab Sample ID: 890-2130-A-1-D MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

0.02815 F1

mg/Kg

Matrix: Solid

Analysis Batch: 22424

Prep Batch: 22243 MSD MSD Sample Sample Spike %Rec. RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit %Rec 0.100 0.01827 F1 Benzene <0.00198 UF1 mg/Kg 18 70 - 130 33 35 Toluene <0.00198 U F1 0.100 0.01840 F1 mg/Kg 18 70 - 130 6 35 Ethylbenzene <0.00198 UF1 0.100 0.02171 F1 mg/Kg 22 70 - 130 6 35 0.200 0.04688 F1 23 70 - 130 35 m-Xylene & p-Xylene < 0.00397 UF1 mg/Kg

0.100

MSD MSD

<0.00198 U F1

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: MB 880-22286/5-A

Matrix: Solid

o-Xylene

Analysis Batch: 22424

Client Sample ID: Method Blank

70 - 130

28

Prep Type: Total/NA

3

Prep Batch: 22286

MD MD

ı		IVID	IVID						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
	Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
	Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
I	m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
	o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
	Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/25/22 12:30	03/26/22 20:25	1

MB MB

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/25/22 12:30	03/26/22 20:25	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/25/22 12:30	03/26/22 20:25	1

Lab Sample ID: MB 880-22418/5-A

Matrix: Solid

Analysis Batch: 22425

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22418

Result Qualifier Dil Fac Analyte Unit Prepared RL Analyzed Benzene < 0.00200 U 0.00200 03/28/22 09:00 03/28/22 18:08 mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 03/28/22 09:00 03/28/22 18:08 Ethylbenzene <0.00200 U 0.00200 mg/Kg 03/28/22 09:00 03/28/22 18:08 0.00400 03/28/22 09:00 03/28/22 18:08 m-Xylene & p-Xylene <0.00400 U mg/Kg

Client: WSP USA Inc. Job ID: 880-12799-1 SDG: 32.816111, -103.621202 Project/Site: Leamex 8 Battery

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

Lab Sample ID: MB 880-22418/5-A

Matrix: Solid

Analysis Batch: 22425

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22418

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/28/22 09:00	03/28/22 18:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/28/22 09:00	03/28/22 18:08	1

мв мв

мв мв

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98	70 - 130	03/28/22 09:00	03/28/22 18:08	1
1,4-Difluorobenzene (Surr)	101	70 - 130	03/28/22 09:00	03/28/22 18:08	1

Lab Sample ID: LCS 880-22418/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 22425

Prep Type: Total/NA Prep Batch: 22418

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1075		mg/Kg		108	70 - 130	
Toluene	0.100	0.1121		mg/Kg		112	70 - 130	
Ethylbenzene	0.100	0.1147		mg/Kg		115	70 - 130	
m-Xylene & p-Xylene	0.200	0.2787	*+	mg/Kg		139	70 - 130	
o-Xylene	0.100	0.1331	*+	mg/Kg		133	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1.4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: LCSD 880-22418/2-A

Matrix: Solid

Analysis Batch: 22425

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22418

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08101		mg/Kg		81	70 - 130	28	35
Toluene	0.100	0.07156	*1	mg/Kg		72	70 - 130	44	35
Ethylbenzene	0.100	0.08312		mg/Kg		83	70 - 130	32	35
m-Xylene & p-Xylene	0.200	0.1778	*1	mg/Kg		89	70 - 130	44	35
o-Xylene	0.100	0.08601	*1	mg/Kg		86	70 - 130	43	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	88	70 - 130
1.4-Difluorobenzene (Surr)	110	70 - 130

Lab Sample ID: 880-12893-A-21-D MS

Matrix: Solid

Analysis Batch: 22425

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 22418

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U F1	0.100	0.005133	F1	mg/Kg		5	70 - 130	
Toluene	<0.00202	U F1 *1	0.100	0.007147	F1	mg/Kg		6	70 - 130	
Ethylbenzene	<0.00202	U F1	0.100	0.007349	F1	mg/Kg		7	70 - 130	
m-Xylene & p-Xylene	<0.00403	U F1 *+ *1	0.200	0.02063	F1	mg/Kg		10	70 - 130	
o-Xylene	<0.00202	U F1 *+ *1	0.100	0.01202	F1	mg/Kg		12	70 - 130	

Client: WSP USA Inc. Project/Site: Leamex 8 Battery

Job ID: 880-12799-1 SDG: 32.816111, -103.621202

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

Lab Sample ID: 880-12893-A-21-D MS

Matrix: Solid

Analysis Batch: 22425

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 22418

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 116 70 - 130 1,4-Difluorobenzene (Surr) 96 70 - 130

Lab Sample ID: 880-12893-A-21-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 22425

Prep Type: Total/NA

Prep Batch: 22418

-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U F1	0.0998	0.005869	F1	mg/Kg		6	70 - 130	13	35
Toluene	<0.00202	U F1 *1	0.0998	0.007392	F1	mg/Kg		7	70 - 130	3	35
Ethylbenzene	<0.00202	U F1	0.0998	0.008363	F1	mg/Kg		8	70 - 130	13	35
m-Xylene & p-Xylene	<0.00403	U F1 *+ *1	0.200	0.01614	F1	mg/Kg		8	70 - 130	24	35
o-Xylene	<0.00202	U F1 *+ *1	0.0998	0.01161	F1	mg/Kg		12	70 - 130	4	35

MSD MSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 108 70 - 130 1,4-Difluorobenzene (Surr) 94 70 - 130

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

Lab Sample ID: MB 880-22247/1-A

Matrix: Solid

Analysis Batch: 22239

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22247

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/24/22 08:53	03/24/22 11:17	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/24/22 08:53	03/24/22 11:17	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/24/22 08:53	03/24/22 11:17	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	03/24/22 08:5	03/24/22 11:17	1
o-Terphenyl	124		70 - 130	03/24/22 08:5	03/24/22 11:17	1

Lab Sample ID: LCS 880-22247/2-A

Matrix: Solid

Analysis Batch: 22239

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22247

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	769.8	-	mg/Kg		77	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1087		mg/Kg		109	70 - 130	
C10 C20)								

C10-C28)

	LUS LUS				
Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	111		70 - 130		
o-Terphenyl	105		70 - 130		

Lab Sample ID: LCSD 880-22247/3-A

Matrix: Solid

Analysis Batch: 22239

Analysis Batch: 22239

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12799-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22247

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	671.6	*_	mg/Kg		67	70 - 130	14	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	918.7		mg/Kg		92	70 - 130	17	20
C10-C28)									

LCSD LCSD Qualifier Limits %Recovery

Client Sample ID: Matrix Spike

70 - 130 1-Chlorooctane 95 o-Terphenyl 88 70 - 130

Prep Batch: 22247

Lab Sample ID: 880-12803-A-1-C MS **Matrix: Solid** Prep Type: Total/NA

MS MS %Rec. Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <49.8 U *-998 Gasoline Range Organics 1227 mg/Kg 120 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 998 1212 mg/Kg 119 70 - 130

C10-C28)

Surrogate

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 118 70 - 130 98 70 - 130 o-Terphenyl

Lab Sample ID: 880-12803-A-1-D MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Analysis Batch: 22239

Prep Type: Total/NA Prep Batch: 22247

Sample Sample Spike MSD MSD %Rec. **RPD** Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit <49.8 U *-Gasoline Range Organics 999 1018 99 70 - 130 20 mg/Kg 19 (GRO)-C6-C10 999 1064 104 Diesel Range Organics (Over <49.8 U mg/Kg 70 - 130 13 20 C10-C28)

MSD MSD Qualifier Limits Surrogate %Recovery 104

1-Chlorooctane 70 - 130 85 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22470/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22721

MB MB Analyte Result Qualifier RL Unit Dil Fac D Prepared Analyzed Chloride <5.00 U 5.00 03/31/22 11:36 mg/Kg

Client: WSP USA Inc. Job ID: 880-12799-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Client Sample ID: PH01A

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-22470/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22721

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 234.5 mg/Kg 94 90 - 110

Lab Sample ID: LCSD 880-22470/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22721

Spike LCSD LCSD %Rec. RPD Added Result Qualifier RPD Limit Analyte Unit D %Rec Limits Chloride 250 234.4 mg/Kg 94 0

Lab Sample ID: 880-12799-2 MS Client Sample ID: PH01A **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22721

%Rec. Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 5140 2500 7478 mg/Kg 90 - 110

Lab Sample ID: 880-12799-2 MSD

Matrix: Solid

Analysis Batch: 22721

Sample Sample MSD MSD RPD Spike %Rec. Analyte Result Qualifier Added Qualifier Unit %Rec RPD Limit Result Limits 2500 Chloride 5140 7546 90 - 110 20 mg/Kg

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 880-12799-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

GC VOA

Prep Batch: 22243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12799-1	PH01	Total/NA	Solid	5035	
880-12799-3	PH01B	Total/NA	Solid	5035	
MB 880-22243/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22243/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22243/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2130-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2130-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 22286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-22286/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 22418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12799-2	PH01A	Total/NA	Solid	5035	
MB 880-22418/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22418/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22418/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12893-A-21-D MS	Matrix Spike	Total/NA	Solid	5035	
880-12893-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 22424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12799-1	PH01	Total/NA	Solid	8021B	22243
880-12799-3	PH01B	Total/NA	Solid	8021B	22243
MB 880-22243/5-A	Method Blank	Total/NA	Solid	8021B	22243
MB 880-22286/5-A	Method Blank	Total/NA	Solid	8021B	22286
LCS 880-22243/1-A	Lab Control Sample	Total/NA	Solid	8021B	22243
LCSD 880-22243/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22243
890-2130-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	22243
890-2130-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22243

Analysis Batch: 22425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12799-2	PH01A	Total/NA	Solid	8021B	22418
MB 880-22418/5-A	Method Blank	Total/NA	Solid	8021B	22418
LCS 880-22418/1-A	Lab Control Sample	Total/NA	Solid	8021B	22418
LCSD 880-22418/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22418
880-12893-A-21-D MS	Matrix Spike	Total/NA	Solid	8021B	22418
880-12893-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22418

Analysis Batch: 22500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12799-1	PH01	Total/NA	Solid	Total BTEX	
880-12799-2	PH01A	Total/NA	Solid	Total BTEX	
880-12799-3	PH01B	Total/NA	Solid	Total BTEX	

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 880-12799-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

GC Semi VOA

Analysis Batch: 22239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12799-1	PH01	Total/NA	Solid	8015B NM	22247
880-12799-2	PH01A	Total/NA	Solid	8015B NM	22247
880-12799-3	PH01B	Total/NA	Solid	8015B NM	22247
MB 880-22247/1-A	Method Blank	Total/NA	Solid	8015B NM	22247
LCS 880-22247/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22247
LCSD 880-22247/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22247
880-12803-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	22247
880-12803-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22247

Prep Batch: 22247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12799-1	PH01	Total/NA	Solid	8015NM Prep	
880-12799-2	PH01A	Total/NA	Solid	8015NM Prep	
880-12799-3	PH01B	Total/NA	Solid	8015NM Prep	
MB 880-22247/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22247/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22247/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12803-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12803-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12799-1	PH01	Total/NA	Solid	8015 NM	
880-12799-2	PH01A	Total/NA	Solid	8015 NM	
880-12799-3	PH01B	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12799-1	PH01	Soluble	Solid	DI Leach	_
880-12799-2	PH01A	Soluble	Solid	DI Leach	
880-12799-3	PH01B	Soluble	Solid	DI Leach	
MB 880-22470/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-12799-2 MS	PH01A	Soluble	Solid	DI Leach	
880-12799-2 MSD	PH01A	Soluble	Solid	DI Leach	

Analysis Batch: 22721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12799-1	PH01	Soluble	Solid	300.0	22470
880-12799-2	PH01A	Soluble	Solid	300.0	22470
880-12799-3	PH01B	Soluble	Solid	300.0	22470
MB 880-22470/1-A	Method Blank	Soluble	Solid	300.0	22470
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	300.0	22470
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22470
880-12799-2 MS	PH01A	Soluble	Solid	300.0	22470
880-12799-2 MSD	PH01A	Soluble	Solid	300.0	22470

Eurofins Midland

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Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

Client Sample ID: PH01

Job ID: 880-12799-1

SDG: 32.816111, -103.621202

Lab Sample ID: 880-12799-1

Lab Sample ID: 880-12799-3

Matrix: Solid

Matrix: Solid

Date Collected: 03/17/22 09:03 Date Received: 03/23/22 14:11

	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	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 14:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22500	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22321	03/24/22 19:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22247	03/24/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22239	03/24/22 18:09	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		10			22721	03/31/22 13:58	SC	XEN MID

Lab Sample ID: 880-12799-2 **Client Sample ID: PH01A** Date Collected: 03/21/22 10:56 **Matrix: Solid**

Date Received: 03/23/22 14:11

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 22418 Total/NA Prep 4.99 g 5 mL 03/28/22 09:00 MR XEN MID Total/NA 8021B 5 mL 03/28/22 20:40 XEN MID Analysis 1 5 mL 22425 KLTotal/NA Total BTEX 22500 03/28/22 13:11 XEN MID Analysis 1 A.I Total/NA Analysis 8015 NM 22321 03/24/22 19:53 XEN MID Total/NA 8015NM Prep 22247 XEN MID Prep 10.01 g 03/24/22 08:53 DM 10 mL Total/NA Analysis 8015B NM 22239 03/24/22 18:29 ΑJ XEN MID Soluble 5.01 g 22470 XEN MID Leach DI Leach 50 mL 03/28/22 10:58 CH Soluble Analysis 300.0 10 22721 03/31/22 14:06 SC XEN MID

Client Sample ID: PH01B

Date Collected: 03/21/22 11:51 Date Received: 03/23/22 14:11

_	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	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 15:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22500	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22321	03/24/22 19:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22247	03/24/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22239	03/24/22 18:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		5			22721	03/31/22 14:32	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 880-12799-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

Laboratory: Eurofins Midland

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

Authority	Pre	ogram	Identification Number	Expiration Date 06-30-22	
Texas	NE	ELAP	T104704400-21-22		
The following analytes	are included in this report bu	t the laboratory is not certifi	ed by the governing authority. This list ma	v include analytes for v	
the agency does not of	' '	t the laboratory to not out in	ed by the governing additionty. This list the	ly include analytes for v	
the agency does not of Analysis Method	' '	Matrix	Analyte	y include analytes for v	
9 ,	fer certification.	•	, , ,		

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4.0

Method Description

Total BTEX Calculation

Microextraction

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Method Summary

Client: WSP USA Inc.

Method

8021B

Total BTEX 8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

Project/Site: Leamex 8 Battery

Job ID: 880-12799-1

SDG: 32.816111, -103.621202

XEN MID

XEN MID

Protocol	Laboratory
SW846	XEN MID
TAL SOP	XEN MID
SW846	XEN MID
SW846	XEN MID
MCAWW	XEN MID
SW846	XEN MID

SW846

ASTM

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

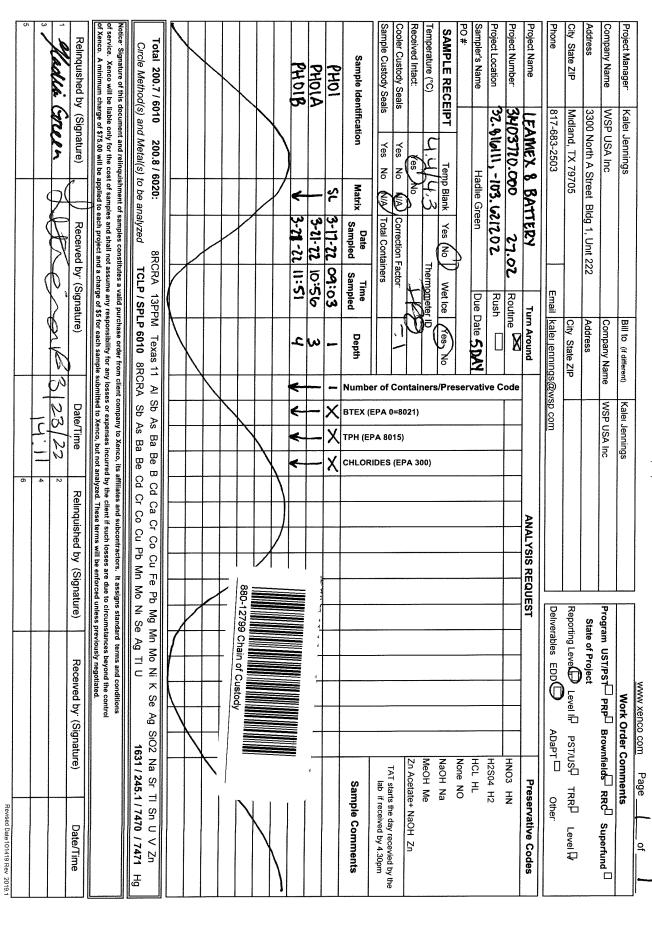
Job ID: 880-12799-1

SDG: 32.816111, -103.621202

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-12799-1	PH01	Solid	03/17/22 09:03	03/23/22 14:11	1
880-12799-2	PH01A	Solid	03/21/22 10:56	03/23/22 14:11	3
880-12799-3	PH01B	Solid	03/21/22 11:51	03/23/22 14:11	4

Work Order No: _

Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6701 Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334 Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199 Phoenix AZ (480) 355-0900 Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296 Atlanta GA (770) 449-8800



Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 880-12799-1

SDG Number: 32.816111, -103.621202

List Source: Eurofins Midland Login Number: 12799 List Number: 1

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or 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	

Eurofins Midland

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-12800-1

Laboratory Sample Delivery Group: 32.816111, -103.621202

Client Project/Site: Leamex 8 Battery

For:

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

Attn: Kalei Jennings

SCRAMER

Authorized for release by: 3/31/2022 5:08:16 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

results through

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Released to Imaging: 9/21/2022 11:05:49 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: Leamex 8 Battery Laboratory Job ID: 880-12800-1 SDG: 32.816111, -103.621202

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Definitions/Glossary

 Client: WSP USA Inc.
 Job ID: 880-12800-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

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Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

 U
 Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

U Indicates the analyte was analyzed for but not detected.

Glossary

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)
EDI	Estimated Detection Limit (Diovin)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

 NEG
 Negative / Absent

 POS
 Positive / Present

 PQL
 Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

Job ID: 880-12800-1

SDG: 32.816111, -103.621202

Job ID: 880-12800-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-12800-1

Receipt

The samples were received on 3/23/2022 2:11 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-22243 and analytical batch 880-22424 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

HPLC/IC

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

Matrix: Solid

Lab Sample ID: 880-12800-1

Client Sample Results

Client: WSP USA Inc. Job ID: 880-12800-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Client Sample ID: PH02

Date Collected: 03/17/22 09:10 Date Received: 03/23/22 14:11

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/25/22 14:00	03/27/22 15:28	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/25/22 14:00	03/27/22 15:28	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/25/22 14:00	03/27/22 15:28	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		03/25/22 14:00	03/27/22 15:28	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/25/22 14:00	03/27/22 15:28	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		03/25/22 14:00	03/27/22 15:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			03/25/22 14:00	03/27/22 15:28	1
1,4-Difluorobenzene (Surr)	112		70 - 130			03/25/22 14:00	03/27/22 15:28	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			03/28/22 13:11	1
Analyte Total TPH		Qualifier	RL 49.9	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49 9					
			10.0	mg/Kg			03/24/22 19:46	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)	10.0	mg/Kg			03/24/22 19:46	1
	• • •	RO) (GC) Qualifier	RL	mg/kg Unit	D	Prepared	03/24/22 19:46 Analyzed	Dil Fac
Analyte Gasoline Range Organics	• • •	Qualifier			<u>D</u>	Prepared 03/24/22 08:49		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL	Unit	<u>D</u>	<u>·</u>	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	RL 49.9	<mark>Unit</mark> mg/Kg	<u> </u>	03/24/22 08:49	Analyzed 03/24/22 18:50	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U U	RL 49.9	Unit mg/Kg mg/Kg	<u>D</u>	03/24/22 08:49	Analyzed 03/24/22 18:50 03/24/22 18:50	Dil Fac
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	RL 49.9 49.9 49.9	Unit mg/Kg mg/Kg	<u>D</u>	03/24/22 08:49 03/24/22 08:49 03/24/22 08:49	Analyzed 03/24/22 18:50 03/24/22 18:50 03/24/22 18:50	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U U	RL 49.9 49.9 49.9 <i>Limits</i>	Unit mg/Kg mg/Kg	<u> </u>	03/24/22 08:49 03/24/22 08:49 03/24/22 08:49 Prepared	Analyzed 03/24/22 18:50 03/24/22 18:50 03/24/22 18:50 Analyzed	Dil Face
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	03/24/22 08:49 03/24/22 08:49 03/24/22 08:49 Prepared 03/24/22 08:49	Analyzed 03/24/22 18:50 03/24/22 18:50 03/24/22 18:50 Analyzed 03/24/22 18:50	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	03/24/22 08:49 03/24/22 08:49 03/24/22 08:49 Prepared 03/24/22 08:49	Analyzed 03/24/22 18:50 03/24/22 18:50 03/24/22 18:50 Analyzed 03/24/22 18:50	Dil Face

Client Sample ID: PH02A

Date Collected: 03/21/22 11:03 Date Received: 03/23/22 14:11

Sample Depth: 3.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/25/22 14:00	03/27/22 15:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/25/22 14:00	03/27/22 15:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/25/22 14:00	03/27/22 15:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/25/22 14:00	03/27/22 15:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/25/22 14:00	03/27/22 15:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/25/22 14:00	03/27/22 15:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/25/22 14:00	03/27/22 15:49	1

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Lab Sample ID: 880-12800-2

Matrix: Solid

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-12800-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

Client Sample ID: PH02A

Date Collected: 03/21/22 11:03

Lab Sample ID: 880-12800-2

Matrix: Solid

Date Collected: 03/21/22 11:03
Date Received: 03/23/22 14:11

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compou	unds (GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108	70 - 130	03/25/22 14:00	03/27/22 15:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/28/22 13:11	1

Method: 8015 NM - Diesel Range Organics (DRO)	(GC)
incured to the Picsci Range Organics (Dixo)	\cdot

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/24/22 19:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/24/22 08:49	03/24/22 15:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		03/24/22 08:49	03/24/22 15:41	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/24/22 08:49	03/24/22 15:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	<u>P</u>	repared	Analyzed	DII Fac
1-Chlorooctane	120		70 - 130	03/2	24/22 08:49	03/24/22 15:41	1
o-Terphenyl	122		70 - 130	03/2	24/22 08:49	03/24/22 15:41	1

$\label{eq:method:method:method:method:one} \textbf{Method: 300.0 - Anions, lon Chromatography - Soluble}$

Analyte	Result Qualifie	r RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	797	24.8	mg/Kg			03/31/22 15:07	5

Client Sample ID: PH02B

Date Collected: 03/21/22 12:00

Lab Sample ID: 880-12800-3

Matrix: Solid

Date Collected: 03/21/22 12:00 Date Received: 03/23/22 14:11

Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

momous collections or gu		(/						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 16:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 16:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 16:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/25/22 14:00	03/27/22 16:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 16:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/25/22 14:00	03/27/22 16:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			03/25/22 14:00	03/27/22 16:09	1
1,4-Difluorobenzene (Surr)	108		70 - 130			03/25/22 14:00	03/27/22 16:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			03/28/22 13:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			03/24/22 19:46	1

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Matrix: Solid

Lab Sample ID: 880-12800-3

Lab Sample ID: 880-12800-4

Matrix: Solid

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-12800-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

Client Sample ID: PH02B

Date Collected: 03/21/22 12:00 Date Received: 03/23/22 14:11

Sample Depth: 5

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7	mg/Kg		03/24/22 08:49	03/24/22 16:02	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.7	U	49.7	mg/Kg		03/24/22 08:49	03/24/22 16:02	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		03/24/22 08:49	03/24/22 16:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			03/24/22 08:49	03/24/22 16:02	1
o-Terphenyl	117		70 - 130			03/24/22 08:49	03/24/22 16:02	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3000		25.0	mg/Kg			03/31/22 15:16	5

Client Sample ID: PH02C

Date Collected: 03/22/22 10:07

Date Received: 03/23/22 14:11

Sample Depth: 6

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/25/22 14:00	03/27/22 16:30	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/25/22 14:00	03/27/22 16:30	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/25/22 14:00	03/27/22 16:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/25/22 14:00	03/27/22 16:30	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/25/22 14:00	03/27/22 16:30	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		03/25/22 14:00	03/27/22 16:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			03/25/22 14:00	03/27/22 16:30	1
1,4-Difluorobenzene (Surr)	111		70 - 130			03/25/22 14:00	03/27/22 16:30	1
Method: Total BTEX - Total BT	TEX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	mg/Kg			03/28/22 13:11	1
• *************************************			0.00396	mg/Kg			03/28/22 13:11	1
Method: 8015 NM - Diesel Ran	nge Organics (DR	O) (GC)			_			·
Method: 8015 NM - Diesel Ran Analyte	nge Organics (DR		RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Ran	nge Organics (DR	O) (GC)			<u>D</u>	Prepared		
Method: 8015 NM - Diesel Ran Analyte	nge Organics (DR) Result 71.6	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Ran Analyte Total TPH	nge Organics (DR Result 71.6 ange Organics (D	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra	nge Organics (DR Result 71.6 ange Organics (D	O) (GC) Qualifier RO) (GC) Qualifier	RL 50.0	Unit mg/Kg			Analyzed 03/24/22 19:46	Dil Fac
Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	nge Organics (DR Result 71.6 ange Organics (DI Result	Qualifier RO) (GC) Qualifier U	RL	Unit mg/Kg		Prepared	Analyzed 03/24/22 19:46 Analyzed	Dil Fac
Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10	nge Organics (DR Result 71.6 ange Organics (Di Result <50.0	Qualifier RO) (GC) Qualifier U	RL 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/24/22 08:49	Analyzed 03/24/22 19:46 Analyzed 03/24/22 16:24	Dil Fac Dil Fac
Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	nge Organics (DR Result 71.6 ange Organics (Di Result <50.0	Qualifier RO) (GC) Qualifier U	RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg		Prepared 03/24/22 08:49 03/24/22 08:49	Analyzed 03/24/22 19:46 Analyzed 03/24/22 16:24 03/24/22 16:24	Dil Fac Dil Fac 1
Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	nge Organics (DR Result 71.6 ange Organics (Di Result <50.0	O) (GC) Qualifier RO) (GC) Qualifier U	RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/24/22 08:49 03/24/22 08:49	Analyzed 03/24/22 19:46 Analyzed 03/24/22 16:24 03/24/22 16:24	Dil Fac Dil Fac 1 1 1
Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	nge Organics (DR Result 71.6 ange Organics (DI Result <50.0 <50.0	O) (GC) Qualifier RO) (GC) Qualifier U	RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/24/22 08:49 03/24/22 08:49 03/24/22 08:49	Analyzed 03/24/22 19:46 Analyzed 03/24/22 16:24 03/24/22 16:24 03/24/22 16:24	Dil Fac Dil Fac 1

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Job ID: 880-12800-1

SDG: 32.816111, -103.621202

Project/Site: Leamex 8 Battery

Date Received: 03/23/22 14:11

Client Sample ID: PH02C Lab Sample ID: 880-12800-4 Date Collected: 03/22/22 10:07

Matrix: Solid

Sample Depth: 6

Client: WSP USA Inc.

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1810		24.9	mg/Kg			03/31/22 15:24	5

Client Sample ID: PH02D Lab Sample ID: 880-12800-5

Date Collected: 03/22/22 10:49 Date Received: 03/23/22 14:11

Matrix: Solid

Sample Depth: 8.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 16:50	
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 16:50	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 16:50	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/25/22 14:00	03/27/22 16:50	
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 16:50	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/25/22 14:00	03/27/22 16:50	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	106		70 - 130			03/25/22 14:00	03/27/22 16:50	
1,4-Difluorobenzene (Surr)	109		70 - 130			03/25/22 14:00	03/27/22 16:50	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/28/22 13:11	•
Method: 8015 NM - Diesel Range								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/24/22 19:46	•
Method: 8015B NM - Diesel Rang								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/24/22 08:49	03/24/22 16:45	•
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/24/22 08:49	03/24/22 16:45	,
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/24/22 08:49	03/24/22 16:45	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	105		70 - 130			03/24/22 08:49	03/24/22 16:45	
o-Terphenyl	103		70 - 130			03/24/22 08:49	03/24/22 16:45	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Surrogate Summary

Job ID: 880-12800-1 Client: WSP USA Inc. Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-12800-1	PH02	110	112	
380-12800-2	PH02A	105	108	
380-12800-3	PH02B	107	108	
380-12800-4	PH02C	108	111	
380-12800-5	PH02D	106	109	
390-2130-A-1-C MS	Matrix Spike	103	96	
390-2130-A-1-D MSD	Matrix Spike Duplicate	103	102	
_CS 880-22243/1-A	Lab Control Sample	103	112	
_CSD 880-22243/2-A	Lab Control Sample Dup	103	113	
MB 880-22243/5-A	Method Blank	100	102	
MB 880-22286/5-A	Method Blank	101	103	
Surrogate Legend				

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

Matrix: Solid Prep Type: Total/NA

		1001	ОТРН1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-12790-A-9-C MS	Matrix Spike	102	90	
880-12790-A-9-D MSD	Matrix Spike Duplicate	94	77	
880-12800-1	PH02	120	121	
880-12800-2	PH02A	120	122	
880-12800-3	PH02B	115	117	
880-12800-4	PH02C	119	119	
880-12800-5	PH02D	105	103	
LCS 880-22246/2-A	Lab Control Sample	114	119	
LCSD 880-22246/3-A	Lab Control Sample Dup	119	123	
MB 880-22246/1-A	Method Blank	117	125	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 880-12800-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22243/5-A

Lab Sample ID: LCS 880-22243/1-A

Analysis Batch: 22424

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22243

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 13:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/25/22 14:00	03/27/22 13:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/25/22 14:00	03/27/22 13:44	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	_	03/25/22 14:00	03/27/22 13:44	1
1.4-Difluorobenzene (Surr)	102		70 - 130		03/25/22 14:00	03/27/22 13:44	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22243

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1116 mg/Kg 112 70 - 130 0.1083 Toluene 0.100 mg/Kg 108 70 - 130 0.100 0.1073 Ethylbenzene mg/Kg 107 70 - 130 70 - 130 0.200 0.2226 m-Xylene & p-Xylene mg/Kg 111 0.100 o-Xylene 0.1106 mg/Kg 111 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	112	70 - 130

Lab Sample ID: LCSD 880-22243/2-A Client Sample ID: Lab Control Sample Dup

Spike

Added

0.100

0.100

0.100

0.200

0.100

LCSD LCSD

0.1245

0.1183

0.1133

0.2347

0.1165

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Matrix: Solid

Analysis Batch: 22424

Analysis Batch: 22424

Prep Type: Total/NA Prep Batch: 22243

70 - 130

70 - 130

%Rec

124

118

113

117

117

RPD %Rec. Limits RPD Limit 70 - 130 11 35 70 - 130 9 35 70 - 130 5 35

35

35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 890-2130-A-1-C MS

Matrix: Solid

Analysis Batch: 22424

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 22243

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U F1	0.0990	0.01306	F1	mg/Kg		13	70 - 130	
Toluene	<0.00198	U F1	0.0990	0.01961	F1	mg/Kg		20	70 - 130	

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12800-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

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

Lab Sample ID: 890-2130-A-1-C MS

Matrix: Solid

Analysis Batch: 22424

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 22243

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00198	U F1	0.0990	0.02046	F1	mg/Kg		21	70 - 130	
m-Xylene & p-Xylene	<0.00397	U F1	0.198	0.04644	F1	mg/Kg		23	70 - 130	
o-Xylene	<0.00198	U F1	0.0990	0.02723	F1	mg/Kg		27	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 22243

Matrix: Solid Analysis Batch: 22424

Lab Sample ID: 890-2130-A-1-D MSD

MSD MSD Sample Sample Spike %Rec. Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit %Rec 0.100 0.01827 F1 Benzene <0.00198 UF1 mg/Kg 18 70 - 130 33 35 0.100 Toluene <0.00198 UF1 0.01840 F1 mg/Kg 18 70 - 130 6 35 Ethylbenzene <0.00198 UF1 0.100 0.02171 F1 22 70 - 130 6 35 mg/Kg 0.200 0.04688 F1 23 70 - 130 35 m-Xylene & p-Xylene <0.00397 UF1 mq/Kq 0.100 <0.00198 U F1 0.02815 F1 28 70 - 130 o-Xylene mg/Kg 3

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: MB 880-22286/5-A

Matrix: Solid

Analysis Batch: 22424

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22286

Analyte	Result	Qualifier		
Benzene	<0.00200	U	0.002	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/25/22 12:30	03/26/22 20:25	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/25/22 12:30	03/26/22 20:25	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/25/22 12:30	03/26/22 20:25	1

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

Lab Sample ID: MB 880-22246/1-A

Matrix: Solid

Analysis Batch: 22241

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 22246

мв мв Result Qualifier RL Unit Prepared <50.0 U 50.0 mg/Kg 03/24/22 08:49 03/24/22 11:17 Gasoline Range Organics

(GRO)-C6-C10

QC Sample Results

 Client: WSP USA Inc.
 Job ID: 880-12800-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

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

Lab Sample ID: MB 880-22246/1-A

Matrix: Solid

Analysis Batch: 22241

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22246

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/24/22 08:49	03/24/22 11:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/24/22 08:49	03/24/22 11:17	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			03/24/22 08:49	03/24/22 11:17	1

o-Terphenyl		125	70 - 130				03/2	24/22 08:49	9 03/24/22 11:17	,
Lab Sample ID: LCS 880-22	246/2-A						Client	t Sample	ID: Lab Contro	ol Sample
Matrix: Solid									Prep Type	: Total/NA
Analysis Batch: 22241									Prep Bat	ch: 22246
-			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics			1000	910.2		mg/Kg		91	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over			1000	1169		mg/Kg		117	70 - 130	
C10-C28)										
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	114		70 - 130							
o-Terphenyl	119		70 - 130							

Matrix: Solid							•	Type: To	
Analysis Batch: 22241							Prep	Batch:	22246
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	949.6		mg/Kg		95	70 - 130	4	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1220		mg/Kg		122	70 - 130	4	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	123		70 - 130

102

90

Lab Sample ID: 880-12790-A	ab Sample ID: 880-12790-A-9-C MS									
Matrix: Solid									Prep Ty	pe: Total/NA
Analysis Batch: 22241									Prep E	Batch: 22246
	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	998	970.1		mg/Kg		97	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1060		mg/Kg		101	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

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Client Sample ID: Lab Control Sample Dup

70 ₋ 130 70 ₋ 130

1-Chlorooctane

o-Terphenyl

Lab Sample ID: LCSD 880-22246/3-A

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

Job ID: 880-12800-1

SDG: 32.816111, -103.621202

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

Lab Sample ID: 880-12790-A-9-D MSD

Matrix: Solid Analysis Batch: 22241 Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Prep Type: Total/NA

Prep Batch: 22246

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.8	U	999	989.4		mg/Kg		99	70 - 130	2	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.8	U	999	935.7		mg/Kg		89	70 - 130	12	20
040,000)											

C10-C28)

MSD MSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	94	70 - 130
o-Terphenyl	77	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22470/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 22721

мв мв

Analyte	Result Qualifier	r RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			03/31/22 11:36	1

Lab Sample ID: LCS 880-22470/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22721

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	234.5	-	mg/Kg		94	90 - 110	

Lab Sample ID: LCSD 880-22470/3-A

Matrix: Solid

Analysis Batch: 22721

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	234 4		ma/Ka		94	90 _ 110		20

Lab Sample ID: 880-12799-A-2-G MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 22721

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	51/0		2500	7478		ma/Ka		94	90 110	

Lab Sample ID: 880-12799-A-2-H MSD

Matrix: Solid

Analysis Batch: 22721											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	5140		2500	7546		mg/Kg		97	90 _ 110	1	20

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Prep Type: Soluble

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 880-12800-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

GC VOA

Prep Batch: 22243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12800-1	PH02	Total/NA	Solid	5035	
880-12800-2	PH02A	Total/NA	Solid	5035	
880-12800-3	PH02B	Total/NA	Solid	5035	
880-12800-4	PH02C	Total/NA	Solid	5035	
880-12800-5	PH02D	Total/NA	Solid	5035	
MB 880-22243/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22243/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22243/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2130-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2130-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 22286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-22286/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 22424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12800-1	PH02	Total/NA	Solid	8021B	22243
880-12800-2	PH02A	Total/NA	Solid	8021B	22243
880-12800-3	PH02B	Total/NA	Solid	8021B	22243
880-12800-4	PH02C	Total/NA	Solid	8021B	22243
880-12800-5	PH02D	Total/NA	Solid	8021B	22243
MB 880-22243/5-A	Method Blank	Total/NA	Solid	8021B	22243
MB 880-22286/5-A	Method Blank	Total/NA	Solid	8021B	22286
LCS 880-22243/1-A	Lab Control Sample	Total/NA	Solid	8021B	22243
LCSD 880-22243/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22243
890-2130-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	22243
890-2130-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22243

Analysis Batch: 22501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12800-1	PH02	Total/NA	Solid	Total BTEX	
880-12800-2	PH02A	Total/NA	Solid	Total BTEX	
880-12800-3	PH02B	Total/NA	Solid	Total BTEX	
880-12800-4	PH02C	Total/NA	Solid	Total BTEX	
880-12800-5	PH02D	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12800-1	PH02	Total/NA	Solid	8015B NM	22246
880-12800-2	PH02A	Total/NA	Solid	8015B NM	22246
880-12800-3	PH02B	Total/NA	Solid	8015B NM	22246
880-12800-4	PH02C	Total/NA	Solid	8015B NM	22246
880-12800-5	PH02D	Total/NA	Solid	8015B NM	22246
MB 880-22246/1-A	Method Blank	Total/NA	Solid	8015B NM	22246
LCS 880-22246/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22246
LCSD 880-22246/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22246
880-12790-A-9-C MS	Matrix Spike	Total/NA	Solid	8015B NM	22246
880-12790-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22246

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QC Association Summary

 Client: WSP USA Inc.
 Job ID: 880-12800-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

GC Semi VOA

Prep Batch: 22246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12800-1	PH02	Total/NA	Solid	8015NM Prep	
880-12800-2	PH02A	Total/NA	Solid	8015NM Prep	
880-12800-3	PH02B	Total/NA	Solid	8015NM Prep	
880-12800-4	PH02C	Total/NA	Solid	8015NM Prep	
880-12800-5	PH02D	Total/NA	Solid	8015NM Prep	
MB 880-22246/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22246/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22246/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12790-A-9-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12790-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12800-1	PH02	Total/NA	Solid	8015 NM	
880-12800-2	PH02A	Total/NA	Solid	8015 NM	
880-12800-3	PH02B	Total/NA	Solid	8015 NM	
880-12800-4	PH02C	Total/NA	Solid	8015 NM	
880-12800-5	PH02D	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-12800-1	PH02	Soluble	Solid	DI Leach	
880-12800-2	PH02A	Soluble	Solid	DI Leach	
880-12800-3	PH02B	Soluble	Solid	DI Leach	
880-12800-4	PH02C	Soluble	Solid	DI Leach	
880-12800-5	PH02D	Soluble	Solid	DI Leach	
MB 880-22470/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-12799-A-2-G MS	Matrix Spike	Soluble	Solid	DI Leach	
880-12799-A-2-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 22721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12800-1	PH02	Soluble	Solid	300.0	22470
880-12800-2	PH02A	Soluble	Solid	300.0	22470
880-12800-3	PH02B	Soluble	Solid	300.0	22470
880-12800-4	PH02C	Soluble	Solid	300.0	22470
880-12800-5	PH02D	Soluble	Solid	300.0	22470
MB 880-22470/1-A	Method Blank	Soluble	Solid	300.0	22470
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	300.0	22470
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22470
880-12799-A-2-G MS	Matrix Spike	Soluble	Solid	300.0	22470
880-12799-A-2-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	22470

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Client Sample ID: PH02

Lab Sample ID: 880-12800-1

Date Collected: 03/17/22 09:10 Date Received: 03/23/22 14:11

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 15:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22501	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22315	03/24/22 19:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22246	03/24/22 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22241	03/24/22 18:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		10			22721	03/31/22 14:41	SC	XEN MID

Lab Sample ID: 880-12800-2

Matrix: Solid

Date Collected: 03/21/22 11:03 Date Received: 03/23/22 14:11

Client Sample ID: PH02A

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 22243 Total/NA Prep 5.03 g 5 mL 03/25/22 14:00 KL XEN MID Total/NA 8021B 5 mL 22424 03/27/22 15:49 XEN MID Analysis 1 5 mL KL Total/NA Total BTEX 22501 03/28/22 13:11 XEN MID Analysis 1 A.I Total/NA Analysis 8015 NM 22315 03/24/22 19:46 XEN MID Total/NA 22246 XEN MID Prep 8015NM Prep 10.04 g 03/24/22 08:49 DM 10 mL Total/NA Analysis 8015B NM 22241 03/24/22 15:41 AJ XEN MID Soluble 22470 XEN MID Leach DI Leach 5.05 g 50 mL 03/28/22 10:58 CH Soluble Analysis 300.0 5 22721 03/31/22 15:07 SC XEN MID

Client Sample ID: PH02B Lab Sample ID: 880-12800-3

Date Collected: 03/21/22 12:00 **Matrix: Solid** Date Received: 03/23/22 14:11

	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	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 16:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22501	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22315	03/24/22 19:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	22246	03/24/22 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22241	03/24/22 16:02	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		5			22721	03/31/22 15:16	SC	XEN MID

Client Sample ID: PH02C Lab Sample ID: 880-12800-4 Date Collected: 03/22/22 10:07

Date Received: 03/23/22 14:11

	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	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 16:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22501	03/28/22 13:11	AJ	XEN MID

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Matrix: Solid

Lab Chronicle

Client: WSP USA Inc. Job ID: 880-12800-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Client Sample ID: PH02C Lab Sample ID: 880-12800-4

Date Collected: 03/22/22 10:07 Matrix: Solid Date Received: 03/23/22 14:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22315	03/24/22 19:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22246	03/24/22 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22241	03/24/22 16:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		5			22721	03/31/22 15:24	SC	XEN MID

Client Sample ID: PH02D Lab Sample ID: 880-12800-5

Date Collected: 03/22/22 10:49 Matrix: Solid

Date Received: 03/23/22 14:11

	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	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 16:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22501	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22315	03/24/22 19:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22246	03/24/22 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22241	03/24/22 16:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		1			22721	03/31/22 15:33	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 880-12800-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

Laboratory: Eurofins Midland

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

Authority	Pre	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report bu	t the laboratory is not certifi	ed by the governing authority. This list ma	v include analytes for v
the agency does not of	' '	t the laboratory to not corum	ed by the governing additionty. This list the	ly include analytes for v
the agency does not of Analysis Method	' '	Matrix	Analyte	y include analytes for v
9 ,	fer certification.	•	, , ,	

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Method Summary

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

Job ID: 880-12800-1

SDG: 32.816111, -103.621202

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

Job ID: 880-12800-1

SDG: 32.816111, -103.621202

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-12800-1	PH02	Solid	03/17/22 09:10	03/23/22 14:11	1
880-12800-2	PH02A	Solid	03/21/22 11:03	03/23/22 14:11	3.5
880-12800-3	PH02B	Solid	03/21/22 12:00	03/23/22 14:11	5
880-12800-4	PH02C	Solid	03/22/22 10:07	03/23/22 14:11	6
880-12800-5	PH02D	Solid	03/22/22 10:49	03/23/22 14:11	8.5

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

Total 200.7 / 6010

200.8 / 6020:

8RCRA 13PPM Texas 11 Al

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TCLP / SPLP 6010 8RCRA Sb

client company to Xenco, its affiliates and subcontractors It assigns standard terms and conditions

As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U

Ca Cr Co Cu Fe Pb Mg Mn Mo

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SiO2 Na Sr Ti Sn U

V Zn

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Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334 Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199 Phoenix AZ (480) 355-0900 Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296

880-12800 Chain of Custody

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			www xenco com	Page of
Kaleı Jennings	Bill to (if different)	Kalei Jennings	Work Order Comments	omments
WSP USA Inc	Company Name	W/cB Head for		
2200 North A Street District Con			rogram: control ror blowneds and superfund	neius AAC Superiung -
3300 North A Street, Bldg 1, Unit 222	Address		State of Project.	
Midland, TX 79705	City, State ZIP		Reporting Level IP PST/I	Level PST/USP TRRP Level P
817-683-2503 Emai	Email kaleı jennings@wsp com	wsp com	Deliverables EDD → ADaPT □	Other
LEAMEX & BATTERY	Turn Around	ANALYSIS REQUEST	JEST	Preservative Codes
31403720:000 27.02 Rou	Routine			HNO3 HN
32.816111, -103.1621202 Rush				H2S04 H2
Hadlie Green Due	Due Date 5144 ati			HO H
	Г			None NO
SEIPT Temp Blank. Yes No Wet Ice	(res) No			No ie No
Thermometer ID		0)		Moou Mo
Yes ¹) No				Zo Acceptat Nicota Za
als Yes No (VA)/Correction Factor	ion	5)		ZII ACEIGIET NAON ZII
s Yes No Nua	of C	A 801		TAT starts the day recevied by the
\dashv	ber	EP		in a second of the second
entification Matrix Sampled Sampled	Depth Numl	BTEX TPH (I		Sample Comments
		-		

Phone

City State ZIP

Address

Company Name Project Manager

Project Number Project Name

Sampler's Name Project Location

Sample Custody Seals

Sample Identification

PH07

PH02A

PHOZ B

3-21-22 12:00

S 6

3-21-12

11:03

w

S

3-17-22 0910

3-12-22 10:49 3-22-22 10:07

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PH02C

Received Intact. Cooler Custody Seals

emperature (°C)

SAMPLE RECEIPT

of service Xenco will be liable only for the cost of Xenco. A minimum charge of \$75,00 will be a	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 necolidated	any losses or expenses incurred e submitted to Xenco, but not an	losses or expenses incurred by the client if such losses are due to circumstances beyond the contribuinted to Xenco, but not analyzed. These terms will be enforced unless previously necovinated	circumstances beyond the control	
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Mille Ween	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0/23/22	2		
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					Revised Date 101419 Rev 2019 1

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 880-12800-1

SDG Number: 32.816111, -103.621202

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

Login Number: 12800 List Number: 1

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	

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-12802-1

Laboratory Sample Delivery Group: 32.816111, -103.621202

Client Project/Site: Leamex 8 Battery

For:

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

Attn: Kalei Jennings

JURAMER

Authorized for release by: 4/1/2022 6:07:43 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

Have a Question?



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www.eurofinsus.com/Env

Released to Imaging: 9/21/2022 11:05:49 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.
Laboratory Job ID: 880-12802-1
Project/Site: Leamex 8 Battery
SDG: 32.816111, -103.621202

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-12802-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Qualifiers

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G	U	v	U	А

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

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DI	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" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

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

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Job ID: 880-12802-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Job ID: 880-12802-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-12802-1

Receipt

The samples were received on 3/23/2022 2:11 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-22245 and analytical batch 880-22323 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-22245 and analytical batch 880-22323 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

HPLC/IC

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

Matrix: Solid

Lab Sample ID: 880-12802-1

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-12802-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

Client Sample ID: PH03

Date Collected: 03/17/22 09:20 Date Received: 03/23/22 14:11

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 08:47	03/26/22 11:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 08:47	03/26/22 11:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 08:47	03/26/22 11:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/25/22 08:47	03/26/22 11:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 08:47	03/26/22 11:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/25/22 08:47	03/26/22 11:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			03/25/22 08:47	03/26/22 11:00	1
1,4-Difluorobenzene (Surr)	109		70 - 130			03/25/22 08:47	03/26/22 11:00	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			03/28/22 12:44	1
Analyte Total TPH	<50.0	Qualifier U	RL 50.0	Unit mg/Kg	D	Prepared	Analyzed 03/24/22 19:46	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			03/24/22 19:46	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	
Gasoline Range Organics	<50.0						Allalyzeu	Dil Fac
(GRO)-C6-C10	\50.0	U	50.0	mg/Kg		03/24/22 08:49	03/24/22 17:27	
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0		50.0 50.0	mg/Kg		03/24/22 08:49		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/24/22 08:49	03/24/22 17:27	1
Diesel Range Organics (Over		U					03/24/22 17:27	1
Diesel Range Organics (Over C10-C28)	<50.0 <50.0 %Recovery	U U	50.0 50.0 <i>Limits</i>	mg/Kg		03/24/22 08:49	03/24/22 17:27	1
C10-C28) OII Range Organics (Over C28-C36)	<50.0 <50.0	U U	50.0 50.0	mg/Kg		03/24/22 08:49 03/24/22 08:49	03/24/22 17:27 03/24/22 17:27 03/24/22 17:27	1 1 1 Dil Fac
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 <50.0 %Recovery	U U	50.0 50.0 <i>Limits</i>	mg/Kg		03/24/22 08:49 03/24/22 08:49 Prepared	03/24/22 17:27 03/24/22 17:27 03/24/22 17:27 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 <50.0 **Recovery 115 118 omatography -	U Qualifier Soluble	50.0 50.0 <u>Limits</u> 70 - 130	mg/Kg		03/24/22 08:49 03/24/22 08:49 Prepared 03/24/22 08:49	03/24/22 17:27 03/24/22 17:27 03/24/22 17:27 Analyzed 03/24/22 17:27	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 <50.0 **Recovery 115 118 omatography -	U U Qualifier	50.0 50.0 <u>Limits</u> 70 - 130	mg/Kg	D	03/24/22 08:49 03/24/22 08:49 Prepared 03/24/22 08:49	03/24/22 17:27 03/24/22 17:27 03/24/22 17:27 Analyzed 03/24/22 17:27	Dil Fac

Client Sample ID: PH03A

Date Collected: 03/21/22 11:10 Date Received: 03/23/22 14:11

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/25/22 08:47	03/26/22 11:20	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/25/22 08:47	03/26/22 11:20	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/25/22 08:47	03/26/22 11:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/25/22 08:47	03/26/22 11:20	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/25/22 08:47	03/26/22 11:20	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/25/22 08:47	03/26/22 11:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			03/25/22 08:47	03/26/22 11:20	

Eurofins Midland

Matrix: Solid

Lab Sample ID: 880-12802-2

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Matrix: Solid

Lab Sample ID: 880-12802-2

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-12802-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

Client Sample ID: PH03A

Date Collected: 03/21/22 11:10 Date Received: 03/23/22 14:11

Sample Depth: 3

Method: 8021B - Volatile O	rganic Compou	nds (GC)	(Continued)
Michiga: OUL 1B Volume C	i gaino compou	1145 (55)	(Goillinaca)

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	109	70 - 130	03/25/22 08:47	03/26/22 11:20	1

Method: Tot	al BTEX - Tota	al BTEX Ca	alculation
mounou. Tot	u. D. L		aiouiutioii

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/28/22 12:44	1

ш				
ш	Method: 8015 NI	A - Diocol Pane	no Organice	(DPO) (CC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/24/22 19:46	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/24/22 08:49	03/24/22 17:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		03/24/22 08:49	03/24/22 17:48	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/24/22 08:49	03/24/22 17:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed
1-Chlorooctane	116		70 - 130	_	03/24/22 08:49	03/24/22 17:48
o-Terphenyl	119		70 - 130		03/24/22 08:49	03/24/22 17:48

Method: 300.0 - Anions,	lon Chromatography - Soluble
Amalusa	Desuit Ouslities

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3250		50.0	mg/Kg			04/01/22 09:47	10

Client Sample ID: PH03B

Date Collected: 03/21/22 12:09

Lab Sample ID: 880-12802-3

Matrix: Solid

Date Collected: 03/21/22 12:09 Date Received: 03/23/22 14:11

Sample Depth: 4.5

Method: 8021B - Volatile Organic Compounds (GC)

mounda. our ib volutile orga	ino compoundo ((33)							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00198	U	0.00198	mg/Kg		03/25/22 08:47	03/26/22 11:41	1	
Toluene	<0.00198	U	0.00198	mg/Kg		03/25/22 08:47	03/26/22 11:41	1	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/25/22 08:47	03/26/22 11:41	1	
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/25/22 08:47	03/26/22 11:41	1	
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/25/22 08:47	03/26/22 11:41	1	
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		03/25/22 08:47	03/26/22 11:41	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	104		70 - 130			03/25/22 08:47	03/26/22 11:41	1	
1,4-Difluorobenzene (Surr)	108		70 - 130			03/25/22 08:47	03/26/22 11:41	1	

Mothod:	Total RTEY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	ma/Ka			03/28/22 12:44	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/24/22 19:46	1

Eurofins Midland

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Matrix: Solid

Lab Sample ID: 880-12802-3

Lab Sample ID: 880-12802-4

Matrix: Solid

Client: WSP USA Inc. Job ID: 880-12802-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Client Sample ID: PH03B

Date Collected: 03/21/22 12:09 Date Received: 03/23/22 14:11

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		03/24/22 08:49	03/24/22 18:09	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		03/24/22 08:49	03/24/22 18:09	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/24/22 08:49	03/24/22 18:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			03/24/22 08:49	03/24/22 18:09	1
o-Terphenyl	112		70 - 130			03/24/22 08:49	03/24/22 18:09	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1270	-	25.0	mg/Kg			04/01/22 09:56	5

Client Sample ID: PH03C

Date Collected: 03/21/22 14:36

Date Received: 03/23/22 14:11

Sample Depth: 6

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/25/22 08:47	03/26/22 12:01	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/25/22 08:47	03/26/22 12:01	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/25/22 08:47	03/26/22 12:01	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		03/25/22 08:47	03/26/22 12:01	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/25/22 08:47	03/26/22 12:01	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		03/25/22 08:47	03/26/22 12:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			03/25/22 08:47	03/26/22 12:01	1
1,4-Difluorobenzene (Surr)	109		70 - 130			03/25/22 08:47	03/26/22 12:01	1
- Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			03/28/22 12:44	1
- ^{'''} -			0.00403	mg/Kg			03/28/22 12:44	1
Total BTEX Method: 8015 NM - Diesel Range Analyte	Organics (DR		0.00403 RL	mg/Kg Unit	D	Prepared	03/28/22 12:44 Analyzed	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC) Qualifier			<u>D</u>	Prepared		Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	Organics (DR) Result <49.9	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	Organics (DR) Result <49.9	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Organics (DR) Result <49.9	Qualifier U RO) (GC) Qualifier	RL 49.9	<mark>Unit</mark> mg/Kg			Analyzed 03/24/22 19:46	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Organics (DR) Result 49.9 The Organics (DI) Result	Qualifier U RO) (GC) Qualifier	RL 49.9	Unit mg/Kg		Prepared	Analyzed 03/24/22 19:46 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Organics (DR) Result 49.9 The Organics (DI) Result	Qualifier U RO) (GC) Qualifier U	RL 49.9	Unit mg/Kg		Prepared	Analyzed 03/24/22 19:46 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Organics (DR) Result 49.9 1e Organics (DI) Result 49.9 49.9	Qualifier U RO) (GC) Qualifier U U U U	RL 49.9 RL 49.9 49.9	Unit mg/Kg Unit mg/Kg		Prepared 03/24/22 08:49 03/24/22 08:49	Analyzed 03/24/22 19:46 Analyzed 03/24/22 18:29 03/24/22 18:29	Dil Fac Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Organics (DR) Result 49.9 The Organics (DI) Result 49.9	Qualifier U RO) (GC) Qualifier U U U U	RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 03/24/22 08:49	Analyzed 03/24/22 19:46 Analyzed 03/24/22 18:29	Dil Fac Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Organics (DR) Result 49.9 1e Organics (DI) Result 49.9 49.9	Qualifier U RO) (GC) Qualifier U U U U	RL 49.9 RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/24/22 08:49 03/24/22 08:49	Analyzed 03/24/22 19:46 Analyzed 03/24/22 18:29 03/24/22 18:29	Dil Fac Dil Fac 1 1 1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Organics (DR) Result 49.9 e Organics (DI) Result 49.9 49.9	Qualifier U RO) (GC) Qualifier U U U U	RL 49.9 RL 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/24/22 08:49 03/24/22 08:49 03/24/22 08:49	Analyzed 03/24/22 19:46 Analyzed 03/24/22 18:29 03/24/22 18:29 03/24/22 18:29	Dil Fac Dil Fac 1

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-12802-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

Client Sample ID: PH03C Lab Sample ID: 880-12802-4

Date Collected: 03/21/22 14:36
Date Received: 03/23/22 14:11
Matrix: Solid

Sample Depth: 6

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	504		25.1	mg/Kg			04/01/22 10:04	5	

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Surrogate Summary

Client: WSP USA Inc. Job ID: 880-12802-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12790-A-4-G MS	Matrix Spike	109	106	
880-12790-A-4-H MSD	Matrix Spike Duplicate	109	110	
380-12802-1	PH03	108	109	
880-12802-2	PH03A	106	109	
880-12802-3	PH03B	104	108	
380-12802-4	PH03C	107	109	
_CS 880-22245/1-A	Lab Control Sample	106	112	
_CSD 880-22245/2-A	Lab Control Sample Dup	105	112	
MB 880-21822/5-A	Method Blank	103	105	
MB 880-22245/5-A	Method Blank	98	103	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12790-A-9-C MS	Matrix Spike	102	90	
380-12790-A-9-D MSD	Matrix Spike Duplicate	94	77	
380-12802-1	PH03	115	118	
380-12802-2	PH03A	116	119	
380-12802-3	PH03B	113	112	
380-12802-4	PH03C	123	126	
_CS 880-22246/2-A	Lab Control Sample	114	119	
_CSD 880-22246/3-A	Lab Control Sample Dup	119	123	
MB 880-22246/1-A	Method Blank	117	125	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12802-1 SDG: 32.816111, -103.621202 Project/Site: Leamex 8 Battery

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21822/5-A

Matrix: Solid Analysis Batch: 22323 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21822

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/22/22 13:53	03/25/22 21:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/22/22 13:53	03/25/22 21:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/22/22 13:53	03/25/22 21:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/22/22 13:53	03/25/22 21:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/22/22 13:53	03/25/22 21:37	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		03/22/22 13:53	03/25/22 21:37	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/22/22 13:53	03/25/22 21:37	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/22/22 13:53	03/25/22 21:37	1

Lab Sample ID: MB 880-22245/5-A

Matrix: Solid

Analysis Batch: 22323

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

Prep Batch: 22245

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 08:47	03/26/22 08:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 08:47	03/26/22 08:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 08:47	03/26/22 08:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/25/22 08:47	03/26/22 08:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 08:47	03/26/22 08:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/25/22 08:47	03/26/22 08:34	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/25/22 08:47	03/26/22 08:34	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/25/22 08:47	03/26/22 08:34	1

Lab Sample ID: LCS 880-22245/1-A

Matrix: Solid

Analysis Batch: 22323

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22245

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09706		mg/Kg		97	70 - 130	
Toluene	0.100	0.09553		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.09820		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	0.200	0.1996		mg/Kg		100	70 - 130	
o-Xylene	0.100	0.1011		mg/Kg		101	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1.4-Difluorobenzene (Surr)	112	70 - 130

Lab Sample ID: LCSD 880-22245/2-A

Matrix: Solid

Analysis Batch: 22323

Client Sample ID:	Lab Control Sample Dup
	Dren Times Tetal/NA

Prep Type: Total/NA

Prep Batch: 22245

	Бріке	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08954	mg/Kg		90	70 - 130	8	35

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12802-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

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

Lab Sample ID: LCSD 880-22245/2-A

Matrix: Solid Analysis Batch: 22323 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22245

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08838		mg/Kg		88	70 - 130	8	35
Ethylbenzene	0.100	0.09248		mg/Kg		92	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1892		mg/Kg		95	70 - 130	5	35
o-Xylene	0.100	0.09514		mg/Kg		95	70 - 130	6	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-12790-A-4-G MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 22323

Prep Type: Total/NA

Prep Batch: 22245

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene <0.00200 U F1 F2 0.101 0.04676 F1 70 - 130 mg/Kg 46 Toluene <0.00200 UF1F2 0.101 0.04985 F1 49 70 - 130 mg/Kg Ethylbenzene <0.00200 U F1 F2 0.101 0.05415 F1 70 - 130 mg/Kg 53 0.202 m-Xylene & p-Xylene <0.00399 U F1 F2 0.1139 F1 55 70 - 130 mg/Kg o-Xylene 0.00205 F1 0.101 0.05957 F1 mg/Kg 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	109	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: 880-12790-A-4-H MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 22323

Prep Type: Total/NA Prep Batch: 22245

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1 F2	0.0996	0.07853	F2	mg/Kg		79	70 - 130	51	35
Toluene	<0.00200	U F1 F2	0.0996	0.07773	F2	mg/Kg		78	70 - 130	44	35
Ethylbenzene	<0.00200	U F1 F2	0.0996	0.08062	F2	mg/Kg		80	70 - 130	39	35
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.199	0.1656	F2	mg/Kg		82	70 - 130	37	35
o-Xylene	0.00205	F1	0.0996	0.08390		mg/Kg		82	70 - 130	34	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	109	70 - 130
1,4-Difluorobenzene (Surr)	110	70 - 130

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

Lab Sample ID: MB 880-22246/1-A

Analysis Batch: 22241

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 22246

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/24/22 08:49	03/24/22 11:17	1

(GRO)-C6-C10

Matrix: Solid

 Client: WSP USA Inc.
 Job ID: 880-12802-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

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

Lab Sample ID: MB 880-22246/1-A Matrix: Solid

Lab Sample ID: LCS 880-22246/2-A

Matrix: Solid

Analysis Batch: 22241

Analysis Batch: 22241

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 22246

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/24/22 08:49	03/24/22 11:17	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/24/22 08:49	03/24/22 11:17	1

MB MB

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	117		70 - 130	03/24/22 08:49	03/24/22 11:17	1
l	o-Terphenyl	125		70 - 130	03/24/22 08:49	03/24/22 11:17	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22246

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 910.2 91 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1169 mg/Kg 117 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-22246/3-A

Matrix: Solid Analysis Batch: 22241 Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Prep Batch: 22246

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	949.6		mg/Kg		95	70 - 130	4	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1220		mg/Kg		122	70 - 130	4	20	
C10-C28)										

LCSD LCSD
Surrogate %Recovery Qualif

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 119
 70 - 130

 o-Terphenyl
 123
 70 - 130

Lab Sample ID: 880-12790-A-9-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 22241

Prep Type: Total/NA

Prep Batch: 22246

	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	998	970.1		mg/Kg		97	70 - 130
Diesel Range Organics (Over	<49.8	U	998	1060		mg/Kg		101	70 - 130

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	90		70 - 130

Eurofins Midland

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Lab Sample ID: 880-12790-A-9-D MSD

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12802-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 22246

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.8	U	999	989.4		mg/Kg		99	70 - 130	2	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.8	U	999	935.7		mg/Kg		89	70 - 130	12	20
C10 C20\											

C10-C28)

Matrix: Solid

Analysis Batch: 22241

MSD MSD

Surrogate	%Recovery Qu	alifier Limits
1-Chlorooctane	94	70 - 130
o-Terphenyl	77	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22471/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 22735

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Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			04/01/22 08:54	1

Lab Sample ID: LCS 880-22471/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22735

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	238.2		mg/Kg		95	90 - 110	

Lab Sample ID: LCSD 880-22471/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 22735

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	237.5		mg/Kg		95	90 - 110	0	20	

Lab Sample ID: 880-12802-1 MS **Client Sample ID: PH03**

Matrix: Solid

Analysis Batch: 22735

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	7450		1950	12240		ma/Ka		97	90 110	 	_

Lab Sample ID: 880-12802-1 MSD

Matrix: Solid

Analysis Batch: 22735

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	7450		4950	12060		mg/Kg		93	90 - 110	1	20

Eurofins Midland

Prep Type: Soluble

Prep Type: Soluble

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 880-12802-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

GC VOA

Prep Batch: 21822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-21822/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 22245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12802-1	PH03	Total/NA	Solid	5035	
880-12802-2	PH03A	Total/NA	Solid	5035	
880-12802-3	PH03B	Total/NA	Solid	5035	
880-12802-4	PH03C	Total/NA	Solid	5035	
MB 880-22245/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22245/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22245/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12790-A-4-G MS	Matrix Spike	Total/NA	Solid	5035	
880-12790-A-4-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 22323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12802-1	PH03	Total/NA	Solid	8021B	22245
880-12802-2	PH03A	Total/NA	Solid	8021B	22245
880-12802-3	PH03B	Total/NA	Solid	8021B	22245
880-12802-4	PH03C	Total/NA	Solid	8021B	22245
MB 880-21822/5-A	Method Blank	Total/NA	Solid	8021B	21822
MB 880-22245/5-A	Method Blank	Total/NA	Solid	8021B	22245
LCS 880-22245/1-A	Lab Control Sample	Total/NA	Solid	8021B	22245
LCSD 880-22245/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22245
880-12790-A-4-G MS	Matrix Spike	Total/NA	Solid	8021B	22245
880-12790-A-4-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22245

Analysis Batch: 22487

Lab Sample ID 880-12802-1	Client Sample ID PH03	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
880-12802-2	PH03A	Total/NA	Solid	Total BTEX	
880-12802-3	PH03B	Total/NA	Solid	Total BTEX	
880-12802-4	PH03C	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12802-1	PH03	Total/NA	Solid	8015B NM	22246
880-12802-2	PH03A	Total/NA	Solid	8015B NM	22246
880-12802-3	PH03B	Total/NA	Solid	8015B NM	22246
880-12802-4	PH03C	Total/NA	Solid	8015B NM	22246
MB 880-22246/1-A	Method Blank	Total/NA	Solid	8015B NM	22246
LCS 880-22246/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22246
LCSD 880-22246/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22246
880-12790-A-9-C MS	Matrix Spike	Total/NA	Solid	8015B NM	22246
880-12790-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22246

Prep Batch: 22246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12802-1	PH03	Total/NA	Solid	8015NM Prep	

Eurofins Midland

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QC Association Summary

 Client: WSP USA Inc.
 Job ID: 880-12802-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

GC Semi VOA (Continued)

Prep Batch: 22246 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12802-2	PH03A	Total/NA	Solid	8015NM Prep	
880-12802-3	PH03B	Total/NA	Solid	8015NM Prep	
880-12802-4	PH03C	Total/NA	Solid	8015NM Prep	
MB 880-22246/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22246/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22246/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12790-A-9-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12790-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12802-1	PH03	Total/NA	Solid	8015 NM	
880-12802-2	PH03A	Total/NA	Solid	8015 NM	
880-12802-3	PH03B	Total/NA	Solid	8015 NM	
880-12802-4	PH03C	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12802-1	PH03	Soluble	Solid	DI Leach	
880-12802-2	PH03A	Soluble	Solid	DI Leach	
880-12802-3	PH03B	Soluble	Solid	DI Leach	
880-12802-4	PH03C	Soluble	Solid	DI Leach	
MB 880-22471/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22471/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22471/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-12802-1 MS	PH03	Soluble	Solid	DI Leach	
880-12802-1 MSD	PH03	Soluble	Solid	DI Leach	

Analysis Batch: 22735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12802-1	PH03	Soluble	Solid	300.0	22471
880-12802-2	PH03A	Soluble	Solid	300.0	22471
880-12802-3	PH03B	Soluble	Solid	300.0	22471
880-12802-4	PH03C	Soluble	Solid	300.0	22471
MB 880-22471/1-A	Method Blank	Soluble	Solid	300.0	22471
LCS 880-22471/2-A	Lab Control Sample	Soluble	Solid	300.0	22471
LCSD 880-22471/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22471
880-12802-1 MS	PH03	Soluble	Solid	300.0	22471
880-12802-1 MSD	PH03	Soluble	Solid	300.0	22471

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

Job ID: 880-12802-1 SDG: 32.816111, -103.621202

Client Sample ID: PH03

Date Collected: 03/17/22 09:20 Date Received: 03/23/22 14:11

Lab Sample ID: 880-12802-1

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			5.00 g	5 mL	22245	03/25/22 08:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22323	03/26/22 11:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22487	03/28/22 12:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22316	03/24/22 19:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22246	03/24/22 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22241	03/24/22 17:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22471	03/28/22 11:01	CH	XEN MID
Soluble	Analysis	300.0		20			22735	04/01/22 09:20	CH	XEN MID

Client Sample ID: PH03A Lab Sample ID: 880-12802-2 Date Collected: 03/21/22 11:10 Matrix: Solid

Date Received: 03/23/22 14:11

	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	22245	03/25/22 08:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22323	03/26/22 11:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22487	03/28/22 12:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22316	03/24/22 19:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	22246	03/24/22 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22241	03/24/22 17:48	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22471	03/28/22 11:01	CH	XEN MID
Soluble	Analysis	300.0		10			22735	04/01/22 09:47	CH	XEN MID

Client Sample ID: PH03B Lab Sample ID: 880-12802-3 Date Collected: 03/21/22 12:09

Date Received: 03/23/22 14:11

	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	22245	03/25/22 08:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22323	03/26/22 11:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22487	03/28/22 12:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22316	03/24/22 19:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22246	03/24/22 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22241	03/24/22 18:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22471	03/28/22 11:01	CH	XEN MID
Soluble	Analysis	300.0		5			22735	04/01/22 09:56	CH	XEN MID

Client Sample ID: PH03C Lab Sample ID: 880-12802-4 Date Collected: 03/21/22 14:36 **Matrix: Solid**

Date Received: 03/23/22 14:11

	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	22245	03/25/22 08:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22323	03/26/22 12:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22487	03/28/22 12:44	AJ	XEN MID

Eurofins Midland

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Matrix: Solid

Lab Chronicle

 Client: WSP USA Inc.
 Job ID: 880-12802-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

Client Sample ID: PH03C

Lab Sample ID: 880-12802-4

Matrix: Solid

Date Collected: 03/21/22 14:36 Date Received: 03/23/22 14:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22316	03/24/22 19:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22246	03/24/22 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22241	03/24/22 18:29	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	22471	03/28/22 11:01	CH	XEN MID
Soluble	Analysis	300.0		5			22735	04/01/22 10:04	CH	XEN MID

Laboratory References:

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

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Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 880-12802-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

Laboratory: Eurofins Midland

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

- Authority		Program	Identification Number	Expiration Date
Texas		NELAP	T104704400-21-22	06-30-22
The following analytes the agency does not of	• •	but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

2

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Method Summary

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

Job ID: 880-12802-1

SDG: 32.816111, -103.621202

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

Job ID: 880-12802-1

SDG: 32.816111, -103.621202

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-12802-1	PH03	Solid	03/17/22 09:20	03/23/22 14:11	1
880-12802-2	PH03A	Solid	03/21/22 11:10	03/23/22 14:11	3
880-12802-3	PH03B	Solid	03/21/22 12:09	03/23/22 14:11	4.5
880-12802-4	PH03C	Solid	03/21/22 14:36	03/23/22 14:11	6

XMZCORATORIUS VABORATORIUS

Company Name Project Manager

WSP USA Inc Kaleı Jennings

Bill to (if different)

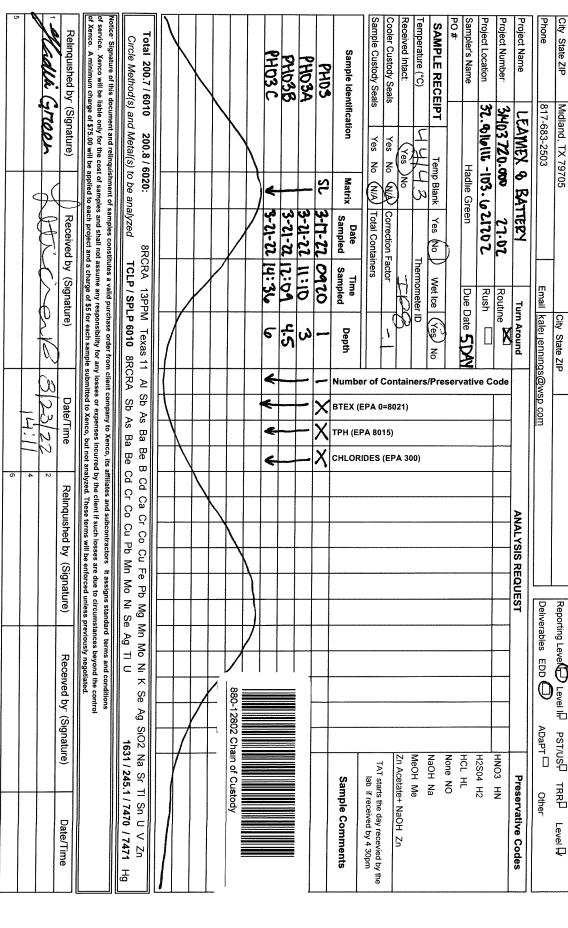
Kaleı Jennings WSP USA Inc

3300 North A Street Bldg 1, Unit 222

Address Company Name

Chain of Custody

Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6701 Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334 Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199 Phoenix, AZ (480) 355-0900 Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296 Atlanta GA (770) 449-8800



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Work Order Comments	
Program UST/PST☐ PRP☐ Brownfield등 RRC☐ Superfund ☐	perfund 🗆
State of Project	
Reporting Level IP PST/USP TRRP Level IP	Level 🖓
Deliverables EDD	

Work Order No: ___

Revised Date 101419 Rev 2019 1

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 880-12802-1

SDG Number: 32.816111, -103.621202

List Source: Eurofins Midland Login Number: 12802

List Number: 1

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or 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 Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

Laboratory Job ID: 880-12803-1

Laboratory Sample Delivery Group: 32.816111, -103.621202

Client Project/Site: Leamex 8 Battery

For:

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

Attn: Kalei Jennings

SCRAMER

Authorized for release by: 4/1/2022 6:07:57 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

Have a Question?



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www.eurofinsus.com/Env
Released to Imaging: 9/21/2022 11:05:49 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.

1

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Client: WSP USA Inc.
Laboratory Job ID: 880-12803-1
Project/Site: Leamex 8 Battery
SDG: 32.816111, -103.621202

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-12803-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Qualifiers

GC VOA

Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER

Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Job ID: 880-12803-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Job ID: 880-12803-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-12803-1

Receipt

The samples were received on 3/23/2022 2:11 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-22243 and analytical batch 880-22424 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-22247 and analytical batch 880-22239 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC

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

Lab Sample ID: 880-12803-1

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-12803-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

Client Sample ID: PH06

Date Collected: 03/17/22 09:44 Date Received: 03/23/22 14:11

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/25/22 14:00	03/27/22 17:11	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/25/22 14:00	03/27/22 17:11	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/25/22 14:00	03/27/22 17:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/25/22 14:00	03/27/22 17:11	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/25/22 14:00	03/27/22 17:11	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/25/22 14:00	03/27/22 17:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			03/25/22 14:00	03/27/22 17:11	1
1,4-Difluorobenzene (Surr)	108		70 - 130			03/25/22 14:00	03/27/22 17:11	1
· Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/28/22 13:11	1
Method: 8015 NM - Diesel Range			ΡI		n	Propared	Analyzod	Dil Fac
Method: 8015 NM - Diesel Range			D.		_			D.1. E
		Qualifier	RL 49.8	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/24/22 19:53	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	Result <49.8	Qualifier U		Unit	<u>D</u>	Prepared		
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.8 ge Organics (Di	Qualifier U RO) (GC)	49.8	Unit mg/Kg		<u> </u>	03/24/22 19:53	1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <49.8 ge Organics (Di Result	Qualifier U RO) (GC) Qualifier	49.8	Unit mg/Kg	<u>D</u>	Prepared	03/24/22 19:53 Analyzed	1 Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.8 ge Organics (Di	Qualifier U RO) (GC) Qualifier	49.8	Unit mg/Kg		<u> </u>	03/24/22 19:53	1 Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8 ge Organics (Di Result	Qualifier U RO) (GC) Qualifier U *-	49.8	Unit mg/Kg		Prepared	03/24/22 19:53 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8 ge Organics (Di Result <49.8	Qualifier U RO) (GC) Qualifier U *-	49.8 RL 49.8	Unit mg/Kg Unit mg/Kg		Prepared 03/24/22 08:53	03/24/22 19:53 Analyzed 03/24/22 12:19	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8	Qualifier U RO) (GC) Qualifier U *- U	49.8 RL 49.8 49.8	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/24/22 08:53 03/24/22 08:53	03/24/22 19:53 Analyzed 03/24/22 12:19 03/24/22 12:19	1 Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8	Qualifier U RO) (GC) Qualifier U *- U	49.8 RL 49.8 49.8 49.8	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/24/22 08:53 03/24/22 08:53	03/24/22 19:53 Analyzed 03/24/22 12:19 03/24/22 12:19 03/24/22 12:19	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.8	Qualifier U RO) (GC) Qualifier U *- U	49.8 RL 49.8 49.8 49.8 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/24/22 08:53 03/24/22 08:53 03/24/22 08:53 Prepared	03/24/22 19:53 Analyzed 03/24/22 12:19 03/24/22 12:19 03/24/22 12:19 Analyzed	Dil Fac 1 1 Dil Fac 1 1 Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.8	Qualifier U RO) (GC) Qualifier U*- U Qualifier	49.8 49.8 49.8 49.8 49.8 Limits 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/24/22 08:53 03/24/22 08:53 03/24/22 08:53 Prepared 03/24/22 08:53	03/24/22 19:53 Analyzed 03/24/22 12:19 03/24/22 12:19 Analyzed 03/24/22 12:19	1 Dil Fac 1 1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.8	Qualifier U RO) (GC) Qualifier U*- U Qualifier	49.8 49.8 49.8 49.8 49.8 Limits 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/24/22 08:53 03/24/22 08:53 03/24/22 08:53 Prepared 03/24/22 08:53	03/24/22 19:53 Analyzed 03/24/22 12:19 03/24/22 12:19 Analyzed 03/24/22 12:19	Dil Fac 1 1 1 Dil Fac 1

Client Sample ID: PH06A

Date Collected: 03/22/22 14:41 Date Received: 03/23/22 14:11

Date Received: 00/20/

Sample Depth: 2.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/25/22 14:00	03/27/22 18:34	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/25/22 14:00	03/27/22 18:34	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/25/22 14:00	03/27/22 18:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/25/22 14:00	03/27/22 18:34	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/25/22 14:00	03/27/22 18:34	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/25/22 14:00	03/27/22 18:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			03/25/22 14:00	03/27/22 18:34	

Eurofins Midland

Matrix: Solid

Lab Sample ID: 880-12803-2

Lab Sample ID: 880-12803-2

03/24/22 08:53

03/24/22 15:41

Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 880-12803-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Client Sample ID: PH06A

Date Collected: 03/22/22 14:41 Date Received: 03/23/22 14:11

Sample Depth: 2.5

Method: 8021B - Volati	le Organic Comp	ounds (GC)	(Continued)
modifical coaling foliati	io organio comp	, o a a o , o o ,	(Continuou,

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107	70 - 130	03/25/22 14:00	03/27/22 18:34	1

ı	Mothodi	Total DTEV	- Total BTEX	Coloulation
ı	wethou.	TOTAL DIEV	- IUIAI DIEA	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/28/22 13:11	1

1					
Moth	nod: 8015 NM	Diocal Bana	o Organica	IDDOVIC	105
INIELI	IOU. OU 15 INIVI	- Diesei Kang	e Organics	ין נטאטן	3C)

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	73.0		49.9	mg/Kg			03/24/22 19:53	1

Method: 8015B	NIM Discol	Danas Or	aaniaa ((CC)
Metriou, ou rab	nivi - Diesei	Range Or	uanics i	וטאט	ıucı

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9	mg/Kg		03/24/22 08:53	03/24/22 15:41	1
Diesel Range Organics (Over C10-C28)	73.0		49.9	mg/Kg		03/24/22 08:53	03/24/22 15:41	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/24/22 08:53	03/24/22 15:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

1-Chlorooctane	97	70 - 13
o-Terphenyl	99	70 - 130

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
					_			

Chloride	1980	25.0	mg/Kg	04/01/22 10:40	5
Client Sample ID: PH06B				Lab Sample ID: 880-1280)3-3

Date Collected: 03/22/22 14:52 Date Received: 03/23/22 14:11

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/25/22 14:00	03/27/22 18:54	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/25/22 14:00	03/27/22 18:54	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/25/22 14:00	03/27/22 18:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/25/22 14:00	03/27/22 18:54	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/25/22 14:00	03/27/22 18:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/25/22 14:00	03/27/22 18:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			03/25/22 14:00	03/27/22 18:54	1
1,4-Difluorobenzene (Surr)	109		70 - 130			03/25/22 14:00	03/27/22 18:54	1

Method: T	otal RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg		_	03/28/22 13:11	1

Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.4	49.8	mg/Kg			03/24/22 19:53	1

Lab Sample ID: 880-12803-3

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-12803-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

Client Sample ID: PH06B

Date Collected: 03/22/22 14:52 Date Received: 03/23/22 14:11

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U *-	49.8	mg/Kg		03/24/22 08:53	03/24/22 16:02	1
(GRO)-C6-C10								
Diesel Range Organics (Over	50.4		49.8	mg/Kg		03/24/22 08:53	03/24/22 16:02	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/24/22 08:53	03/24/22 16:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			03/24/22 08:53	03/24/22 16:02	1
o-Terphenyl	113		70 - 130			03/24/22 08:53	03/24/22 16:02	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	372		4.96	mg/Kg			04/01/22 10:49	

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9

4 4

12

13

Surrogate Summary

Job ID: 880-12803-1 Client: WSP USA Inc. Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-12803-1	PH06	109	108	
380-12803-2	PH06A	108	107	
880-12803-3	PH06B	108	109	
890-2130-A-1-C MS	Matrix Spike	103	96	
890-2130-A-1-D MSD	Matrix Spike Duplicate	103	102	
_CS 880-22243/1-A	Lab Control Sample	103	112	
_CSD 880-22243/2-A	Lab Control Sample Dup	103	113	
MB 880-22243/5-A	Method Blank	100	102	
MB 880-22286/5-A	Method Blank	101	103	
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	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
30-12803-1	PH06	127	127	
80-12803-1 MS	PH06	118	98	
80-12803-1 MSD	PH06	104	85	
80-12803-2	PH06A	97	99	
30-12803-3	PH06B	115	113	
CS 880-22247/2-A	Lab Control Sample	111	105	
CSD 880-22247/3-A	Lab Control Sample Dup	95	88	
B 880-22247/1-A	Method Blank	119	124	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Project/Site: Leamex 8 Battery

Job ID: 880-12803-1 SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22243/5-A

Matrix: Solid

Analysis Batch: 22424

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22243

MB	MB	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 13:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/25/22 14:00	03/27/22 13:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/25/22 14:00	03/27/22 13:44	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/25/22 14:0	03/27/22 13:44	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/25/22 14:0	03/27/22 13:44	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22243

Prep Type: Total/NA

35

35

Lab Sample ID: LCS 880-22243/1-A

Matrix: Solid

Analysis Batch: 22424

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1116		mg/Kg		112	70 - 130	
Toluene	0.100	0.1083		mg/Kg		108	70 - 130	
Ethylbenzene	0.100	0.1073		mg/Kg		107	70 - 130	
m-Xylene & p-Xylene	0.200	0.2226		mg/Kg		111	70 - 130	
o-Xylene	0.100	0.1106		mg/Kg		111	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Client Sample ID: Lab Control Sample Dup

117

117

Matrix: Solid

m-Xylene & p-Xylene

Analyte Benzene Toluene Ethylbenzene

o-Xylene

Analysis Batch: 22424

Lab Sample ID: LCSD 880-22243/2-A

						Prep	Batch:	22243	
Spike	LCSD	LCSD				%Rec		RPD	
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
0.100	0.1245		mg/Kg		124	70 - 130	11	35	
0.100	0.1183		mg/Kg		118	70 - 130	9	35	
0.100	0.1133		mg/Kg		113	70 - 130	5	35	

mg/Kg

mg/Kg

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1.4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 890-2130-A-1-C MS

Matrix: Solid

Analysis Batch: 22424

Client Sample ID: Matrix Spike Prep Type: Total/NA

70 - 130

70 - 130

Prep Batch: 22243

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U F1	0.0990	0.01306	F1	mg/Kg		13	70 - 130	
Toluene	<0.00198	U F1	0.0990	0.01961	F1	mg/Kg		20	70 - 130	

0.200

0.100

0.2347

0.1165

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12803-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

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

Lab Sample ID: 890-2130-A-1-C MS

Analysis Batch: 22424

Matrix: Solid

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00198	U F1	0.0990	0.02046	F1	mg/Kg		21	70 - 130	
m-Xylene & p-Xylene	<0.00397	U F1	0.198	0.04644	F1	mg/Kg		23	70 - 130	
o-Xylene	<0.00198	U F1	0.0990	0.02723	F1	mg/Kg		27	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	103		70 - 130		
1,4-Difluorobenzene (Surr)	96		70 - 130		

Lab Sample ID: 890-2130-A-1-D MSD

Matrix: Solid

Analysis Batch: 22424

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 22243

Prep Type: Total/NA

Prep Batch: 22243

Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.100 0.01827 F1 Benzene <0.00198 UF1 mg/Kg 18 70 - 130 33 35 Toluene 0.100 <0.00198 UF1 0.01840 F1 mg/Kg 18 70 - 130 6 35 Ethylbenzene <0.00198 UF1 0.100 0.02171 F1 mg/Kg 22 70 - 130 6 35 0.200 0.04688 F1 23 70 - 130 35 m-Xylene & p-Xylene <0.00397 UF1 mg/Kg 0.100 <0.00198 U F1 0.02815 F1 28 70 - 130 o-Xylene mg/Kg 3

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: MB 880-22286/5-A

Matrix: Solid

Analysis Batch: 22424

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22286

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/25/22 12:30	03/26/22 20:25	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/25/22 12:30	03/26/22 20:25	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/25/22 12:30	03/26/22 20:25	1

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

Lab Sample ID: MB 880-22247/1-A

Matrix: Solid

Analysis Batch: 22239

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 22247

MB MB Result Qualifier RL Unit Prepared Analyzed <50.0 U 50.0 mg/Kg 03/24/22 08:53 03/24/22 11:17 Gasoline Range Organics (GRO)-C6-C10

Client: WSP USA Inc. Job ID: 880-12803-1 SDG: 32.816111, -103.621202 Project/Site: Leamex 8 Battery

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

Lab Sample ID: MB 880-22247/1-A

Lab Sample ID: LCS 880-22247/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 22239

Analysis Batch: 22239

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 22247

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/24/22 08:53	03/24/22 11:17	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/24/22 08:53	03/24/22 11:17	1
,				0 0				

MB MB

MR MR

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	119		70 - 130	03/24/22 08:53	03/24/22 11:17	1
l	o-Terphenyl	124		70 - 130	03/24/22 08:53	03/24/22 11:17	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22247

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	769.8		mg/Kg		77	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1087		mg/Kg		109	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-22247/3-A

Matrix: Solid

Analysis Batch: 22239

Client Sample ID: Lab	Control	Sample Dup
	Daniel To	T-4-1/NIA

Prep Type: Total/NA Prep Batch: 22247

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	671.6	*_	mg/Kg		67	70 - 130	14	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	918.7		mg/Kg		92	70 - 130	17	20	
C10-C28)										

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 95 70 - 130 o-Terphenyl 88 70 - 130

Lab Sample ID: 880-12803-1 MS

Matrix: Solid

Analysis Batch: 22239

Client Sample ID: PH06 Prep Type: Total/NA

Prep Batch: 22247

	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 *-	998	1227		mg/Kg		120	70 - 130
Diesel Range Organics (Over	<49.8	U	998	1212		mg/Kg		119	70 - 130

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	98		70 - 130

Client: WSP USA Inc.

Job ID: 880-12803-1

SDG: 32.816111, -103.621202 Project/Site: Leamex 8 Battery

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

MR MR

Lab Sample ID: 880-12803-1 MS	D			Client Sample ID: PH06
Matrix: Solid				Prep Type: Total/NA
Analysis Batch: 22239				Prep Batch: 22247
	Sample Sample	Sniko	Med Med	% Pag PDD

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *-	999	1018		mg/Kg		99	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1064		mg/Kg		104	70 - 130	13	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	85		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22471/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22735

	111.0	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/01/22 08:54	1

Lab Sample ID: LCS 880-22471/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid **Prep Type: Soluble Analysis Batch: 22735**

	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	 250	238.2		mg/Kg		95	90 - 110	 	_

Lab Sample ID: LCSD 880-22471/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 22735

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	237.5		mg/Kg		95	90 - 110	0	20	

Lab Sample ID: 880-12802-A-1-F MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22735

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	7450		4950	12240		ma/Ka	_	97	90 110	

Lab Sample ID: 880-12802-A-1-G MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22735

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	7450		4950	12060		mg/Kg		93	90 - 110	1	20

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12803-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2125-A-1-G MS Client Sample ID: Matrix Spike **Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 22735

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits Chloride 49.6 250 298.4 mg/Kg 100 90 - 110

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analysis Batch: 22735

Matrix: Solid

Lab Sample ID: 890-2125-A-1-H MSD

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	49.6		248	292.0		mg/Kg		98	90 - 110	2	20

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 880-12803-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

GC VOA

Prep Batch: 22243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12803-1	PH06	Total/NA	Solid	5035	
880-12803-2	PH06A	Total/NA	Solid	5035	
880-12803-3	PH06B	Total/NA	Solid	5035	
MB 880-22243/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22243/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22243/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2130-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2130-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 22286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-22286/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 22424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12803-1	PH06	Total/NA	Solid	8021B	22243
880-12803-2	PH06A	Total/NA	Solid	8021B	22243
880-12803-3	PH06B	Total/NA	Solid	8021B	22243
MB 880-22243/5-A	Method Blank	Total/NA	Solid	8021B	22243
MB 880-22286/5-A	Method Blank	Total/NA	Solid	8021B	22286
LCS 880-22243/1-A	Lab Control Sample	Total/NA	Solid	8021B	22243
LCSD 880-22243/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22243
890-2130-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	22243
890-2130-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22243

Analysis Batch: 22502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12803-1	PH06	Total/NA	Solid	Total BTEX	
880-12803-2	PH06A	Total/NA	Solid	Total BTEX	
880-12803-3	PH06B	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12803-1	PH06	Total/NA	Solid	8015B NM	22247
880-12803-2	PH06A	Total/NA	Solid	8015B NM	22247
880-12803-3	PH06B	Total/NA	Solid	8015B NM	22247
MB 880-22247/1-A	Method Blank	Total/NA	Solid	8015B NM	22247
LCS 880-22247/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22247
LCSD 880-22247/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22247
880-12803-1 MS	PH06	Total/NA	Solid	8015B NM	22247
880-12803-1 MSD	PH06	Total/NA	Solid	8015B NM	22247

Prep Batch: 22247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12803-1	PH06	Total/NA	Solid	8015NM Prep	
880-12803-2	PH06A	Total/NA	Solid	8015NM Prep	
880-12803-3	PH06B	Total/NA	Solid	8015NM Prep	
MB 880-22247/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22247/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Eurofins Midland

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QC Association Summary

 Client: WSP USA Inc.
 Job ID: 880-12803-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

GC Semi VOA (Continued)

Prep Batch: 22247 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-22247/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12803-1 MS	PH06	Total/NA	Solid	8015NM Prep	
880-12803-1 MSD	PH06	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12803-1	PH06	Total/NA	Solid	8015 NM	-
880-12803-2	PH06A	Total/NA	Solid	8015 NM	
880-12803-3	PH06B	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12803-1	PH06	Soluble	Solid	DI Leach	
880-12803-2	PH06A	Soluble	Solid	DI Leach	
880-12803-3	PH06B	Soluble	Solid	DI Leach	
MB 880-22471/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22471/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22471/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-12802-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-12802-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-2125-A-1-G MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2125-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 22735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12803-1	PH06	Soluble	Solid	300.0	22471
880-12803-2	PH06A	Soluble	Solid	300.0	22471
880-12803-3	PH06B	Soluble	Solid	300.0	22471
MB 880-22471/1-A	Method Blank	Soluble	Solid	300.0	22471
LCS 880-22471/2-A	Lab Control Sample	Soluble	Solid	300.0	22471
LCSD 880-22471/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22471
880-12802-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	22471
880-12802-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	22471
890-2125-A-1-G MS	Matrix Spike	Soluble	Solid	300.0	22471
890-2125-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	22471

Client: WSP USA Inc. Job ID: 880-12803-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Lab Sample ID: 880-12803-1

Client Sample ID: PH06 Date Collected: 03/17/22 09:44 **Matrix: Solid** Date Received: 03/23/22 14:11

	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	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 17:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22502	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22318	03/24/22 19:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	22247	03/24/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22239	03/24/22 12:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22471	03/28/22 11:01	CH	XEN MID
Soluble	Analysis	300.0		10			22735	04/01/22 10:13	CH	XEN MID

Lab Sample ID: 880-12803-2 Client Sample ID: PH06A

Date Collected: 03/22/22 14:41 **Matrix: Solid**

Date Received: 03/23/22 14:11

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 22243 Total/NA Prep 4.97 g 5 mL 03/25/22 14:00 KL XEN MID 8021B Total/NA 5 mL 22424 03/27/22 18:34 XEN MID Analysis 1 5 mL KL Total/NA Total BTEX 22502 03/28/22 13:11 XEN MID Analysis 1 A.I Total/NA Analysis 8015 NM 22318 03/24/22 19:53 XEN MID Total/NA 8015NM Prep 22247 XEN MID Prep 10.02 g 10 mL 03/24/22 08:53 DM Total/NA Analysis 8015B NM 22239 03/24/22 15:41 AJ XEN MID Soluble XEN MID Leach DI Leach 5.01 g 50 mL 22471 03/28/22 11:01 CH Soluble Analysis 300.0 5 22735 04/01/22 10:40 CH XEN MID

Client Sample ID: PH06B Lab Sample ID: 880-12803-3 Date Collected: 03/22/22 14:52 **Matrix: Solid**

Date Received: 03/23/22 14:11

	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	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 18:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22502	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22318	03/24/22 19:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	22247	03/24/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22239	03/24/22 16:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	22471	03/28/22 11:01	CH	XEN MID
Soluble	Analysis	300.0		1			22735	04/01/22 10:49	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 880-12803-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

Laboratory: Eurofins Midland

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

Authority	F	Program	Identification Number	Expiration Date
Texas		NELAP	T104704400-21-22	06-30-22
The following analytes the agency does not of	• •	but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

Method Description

Total BTEX Calculation

Microextraction

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Method Summary

Client: WSP USA Inc.

Method

8021B

Total BTEX 8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

Project/Site: Leamex 8 Battery

Job ID: 880-12803-1

SDG: 32.816111, -103.621202

XEN MID

XEN MID

Protocol	Laboratory
SW846	XEN MID
TAL SOP	XEN MID
SW846	XEN MID
SW846	XEN MID
MCAWW	XEN MID
SW846	XEN MID

SW846

ASTM

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

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Sample Summary

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

Job ID: 880-12803-1

SDG: 32.816111, -103.621202

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-12803-1	PH06	Solid	03/17/22 09:44	03/23/22 14:11	1
880-12803-2	PH06A	Solid	03/22/22 14:41	03/23/22 14:11	2.5
880-12803-3	PH06B	Solid	03/22/22 14:52	03/23/22 14:11	4

Total 200.7 / 6010

200.8 / 6020:

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

Relinquished by (Signature)

Received by: (Signature)

22

Date/Time

Relinquished by (Signature)

Received by (Signature)

Date/Time

Revised Date 101419 Rev

laddi Green



Phone

817-683-2503

City State ZIP

Midland, TX 79705

Company Name Project Manager

Kaleı Jennings

WSP USA Inc

Sampler's Name Project Location

Hadlie Green

SAMPLE RECEIPT

Temp Blank

| Yeş

Project Number Project Name

3/403720.000

LEAMEX &

Received Intact:

emperature (°C)

ample Custody Seals

Sample Identification

Matrix

BHOLB PHOWA PHOP ooler Custody Seals

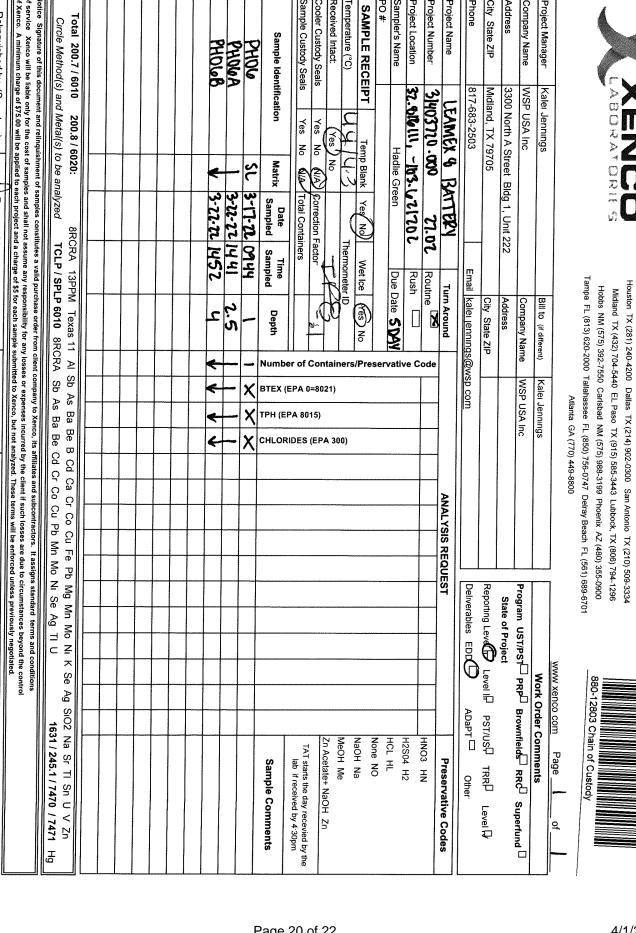
Yes Yes No

S

F

No

Chain of Custody



Project Manager

Kaleı Jennıngs

Company Name

ddress

3300 North A Street, WSP USA Inc

Bldg 1, Unit 222

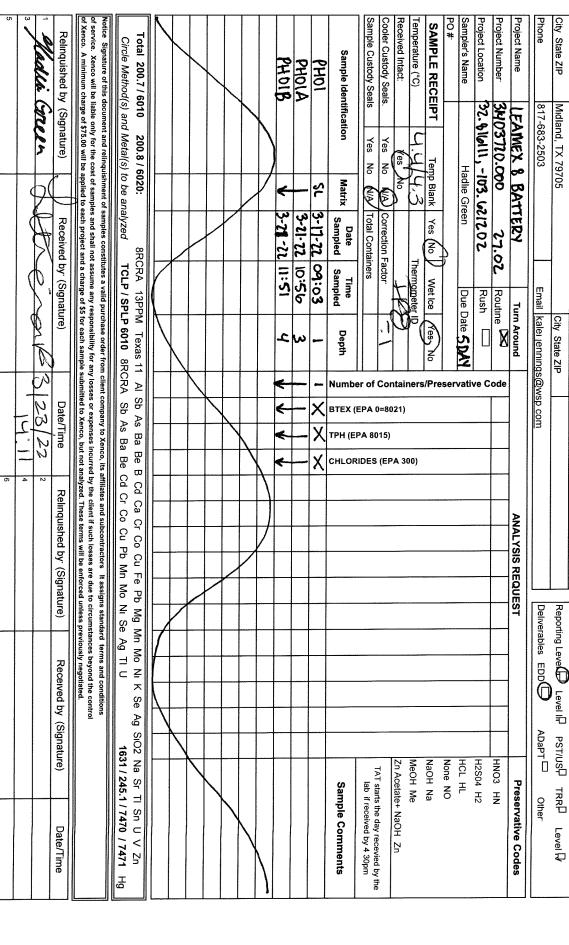
Address

Bill to (if different) Company Name

WSP USA Inc Kalei Jennings

Chain of Custody

Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6701 Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334 Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199 Phoenix, AZ (480) 355-0900 Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296 Atlanta GA (770) 449-8800



www xenco com Page 으

Program UST/PST PRP Brownfield RRC Superfund

Work Order Comments

State of Project.

4/1/2022

Work Order No: _

Date101419 Rev 2019

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 880-12803-1

SDG Number: 32.816111, -103.621202

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Login Number: 12803 List Source: Eurofins Midland
List Number: 1

Creator: Rodriguez, Leticia

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

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-12820-1

Laboratory Sample Delivery Group: 32.816111, -103.621202

Client Project/Site: Leamex 8 Battery

For:

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

Attn: Kalei Jennings

SURAMER

Authorized for release by: 3/31/2022 5:08:47 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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

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

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Client: WSP USA Inc. Project/Site: Leamex 8 Battery Laboratory Job ID: 880-12820-1 SDG: 32.816111, -103.621202

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Definitions/Glossary

 Client: WSP USA Inc.
 Job ID: 880-12820-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

621202

Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

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

HPLC/IC

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

Eurofins Midland

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Case Narrative

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

Job ID: 880-12820-1

SDG: 32.816111, -103.621202

Job ID: 880-12820-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-12820-1

Receipt

The samples were received on 3/23/2022 2:11 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-22243 and analytical batch 880-22424 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-22247 and analytical batch 880-22239 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC

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

Client: WSP USA Inc. Project/Site: Leamex 8 Battery

Job ID: 880-12820-1

Lab Sample ID: 880-12820-1

SDG: 32.816111, -103.621202

Client Sample ID: PH05

Date Collected: 03/22/22 13:40 Date Received: 03/23/22 14:11

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 19:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 19:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 19:15	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/25/22 14:00	03/27/22 19:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 19:15	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/25/22 14:00	03/27/22 19:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			03/25/22 14:00	03/27/22 19:15	1
1,4-Difluorobenzene (Surr)	102		70 - 130			03/25/22 14:00	03/27/22 19:15	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/28/22 13:11	1
Analyte Total TPH	136	Qualifier	RL 49.7	Unit mg/Kg	D	Prepared	Analyzed	Dil Fa
-	100						03/24/22 19:53	1
				mg/rtg			03/24/22 19:53	1
	• • •							
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	• • •	Qualifier	RL 49.7		<u>D</u>	Prepared 03/24/22 08:53		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.7	Qualifier	49.7	<mark>Unit</mark> mg/Kg	<u>D</u>	03/24/22 08:53	Analyzed 03/24/22 16:24	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier		Unit	<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.7	Qualifier U *-	49.7	<mark>Unit</mark> mg/Kg	<u>D</u>	03/24/22 08:53	Analyzed 03/24/22 16:24	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.7	Qualifier U *-	49.7	unit mg/Kg mg/Kg	<u>D</u>	03/24/22 08:53	Analyzed 03/24/22 16:24 03/24/22 16:24	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.7 136 <49.7	Qualifier U *-	49.7 49.7 49.7	unit mg/Kg mg/Kg	<u> </u>	03/24/22 08:53 03/24/22 08:53 03/24/22 08:53	Analyzed 03/24/22 16:24 03/24/22 16:24 03/24/22 16:24	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U *-	49.7 49.7 49.7 Limits	unit mg/Kg mg/Kg	<u>D</u>	03/24/22 08:53 03/24/22 08:53 03/24/22 08:53 Prepared	Analyzed 03/24/22 16:24 03/24/22 16:24 03/24/22 16:24 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U *- U Qualifier	49.7 49.7 49.7 Limits 70 - 130	unit mg/Kg mg/Kg	<u>D</u>	03/24/22 08:53 03/24/22 08:53 03/24/22 08:53 Prepared 03/24/22 08:53	Analyzed 03/24/22 16:24 03/24/22 16:24 03/24/22 16:24 Analyzed 03/24/22 16:24	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U *- U Qualifier	49.7 49.7 49.7 Limits 70 - 130	unit mg/Kg mg/Kg	<u>D</u>	03/24/22 08:53 03/24/22 08:53 03/24/22 08:53 Prepared 03/24/22 08:53	Analyzed 03/24/22 16:24 03/24/22 16:24 03/24/22 16:24 Analyzed 03/24/22 16:24	Dil Fac

Client Sample ID: PH05A

Date Collected: 03/22/22 13:50 Date Received: 03/23/22 14:11

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 19:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 19:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 19:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/25/22 14:00	03/27/22 19:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 19:36	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/25/22 14:00	03/27/22 19:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/25/22 14:00	03/27/22 19:36	

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Lab Sample ID: 880-12820-2

Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 880-12820-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Client Sample ID: PH05A Lab Sample ID: 880-12820-2

Date Collected: 03/22/22 13:50 Matrix: Solid Date Received: 03/23/22 14:11

Sample Depth: 2

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	111	70 - 130	03/25/22 14:00	03/27/22 19:36	1

Method:	Total RTF)	(- Total RTF	X Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00401	U	0.00401	ma/Ka			03/28/22 13:11	1

Mothod: 2015 NM - Diocol	Pango Organice (DPO) (CC)

Analyte		Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH		97.8		50.0	ma/Ka			03/24/22 19:53	1	

Method: 8015B	NM - Diocol	Dange O	raanice /[IPOL (CC)
i wietiiou, oo ioo	INIVI - DIESEI	Rallue O	i uai ii cs i l	יטטו וטאנ

	,	/ (/						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0	mg/Kg		03/24/22 08:53	03/24/22 16:45	1
Diesel Range Organics (Over C10-C28)	97.8		50.0	mg/Kg		03/24/22 08:53	03/24/22 16:45	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/24/22 08:53	03/24/22 16:45	1
Surrogate	%Pecovery	Qualifier	l imite			Drongrad	Analyzod	Dil Eac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105	70 - 130	03/24/22 08:53	03/24/22 16:45	1
o-Terphenyl	103	70 - 130	03/24/22 08:53	03/24/22 16:45	1

Method: 300.0 - Anions, Ion	Chromatography - Soluble
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.5		5.05	mg/Kg			03/31/22 15:50	1

Client Sample ID: PH05B Lab Sample ID: 880-12820-3 Matrix: Solid

Date Collected: 03/22/22 14:08 Date Received: 03/23/22 14:11

Sample Depth: 3

Method: 8021B - '	Volatila	Organic (Compounds	(CC)

Motifica. Coz ID Volutilo Orga	ino compoundo ((33)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/25/22 14:00	03/27/22 19:56	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/25/22 14:00	03/27/22 19:56	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/25/22 14:00	03/27/22 19:56	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/25/22 14:00	03/27/22 19:56	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/25/22 14:00	03/27/22 19:56	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/25/22 14:00	03/27/22 19:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/25/22 14:00	03/27/22 19:56	1
1,4-Difluorobenzene (Surr)	107		70 - 130			03/25/22 14:00	03/27/22 19:56	1

Mothod:	Total RTEY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			03/28/22 13:11	1

Analyte	•	Re	sult Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			3.8	49.9	mg/Kg			03/24/22 19:53	1

Lab Sample ID: 880-12820-3

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-12820-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

Client Sample ID: PH05B

Date Collected: 03/22/22 14:08 Date Received: 03/23/22 14:11

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *-	49.9	mg/Kg		03/24/22 08:53	03/24/22 17:27	1
(GRO)-C6-C10								
Diesel Range Organics (Over	63.8		49.9	mg/Kg		03/24/22 08:53	03/24/22 17:27	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/24/22 08:53	03/24/22 17:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			03/24/22 08:53	03/24/22 17:27	1
o-Terphenyl	115		70 - 130			03/24/22 08:53	03/24/22 17:27	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			4.98	mg/Kg			03/31/22 15:59	

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Surrogate Summary

Job ID: 880-12820-1 Client: WSP USA Inc. Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12820-1	PH05	107	102	
880-12820-2	PH05A	111	111	
880-12820-3	PH05B	105	107	
890-2130-A-1-C MS	Matrix Spike	103	96	
890-2130-A-1-D MSD	Matrix Spike Duplicate	103	102	
LCS 880-22243/1-A	Lab Control Sample	103	112	
LCSD 880-22243/2-A	Lab Control Sample Dup	103	113	
MB 880-22243/5-A	Method Blank	100	102	
MB 880-22286/5-A	Method Blank	101	103	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12803-A-1-C MS	Matrix Spike	118	98	
880-12803-A-1-D MSD	Matrix Spike Duplicate	104	85	
880-12820-1	PH05	98	97	
880-12820-2	PH05A	105	103	
880-12820-3	PH05B	115	115	
LCS 880-22247/2-A	Lab Control Sample	111	105	
LCSD 880-22247/3-A	Lab Control Sample Dup	95	88	
MB 880-22247/1-A	Method Blank	119	124	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Project/Site: Leamex 8 Battery

Job ID: 880-12820-1

SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22243/5-A

Lab Sample ID: LCS 880-22243/1-A

Lab Sample ID: LCSD 880-22243/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 22424

Analysis Batch: 22424

Matrix: Solid Analysis Batch: 22424 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22243

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 13:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/25/22 14:00	03/27/22 13:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		03/25/22 14:00	03/27/22 13:44	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/25/22 14	:00 03/27/22 13:44	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/25/22 14	:00 03/27/22 13:44	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22243

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1116 mg/Kg 112 70 - 130 Toluene 0.100 0.1083 mg/Kg 108 70 - 130 0.100 0.1073 Ethylbenzene mg/Kg 107 70 - 130 0.200 0.2226 70 - 130 m-Xylene & p-Xylene mg/Kg 111 0.100 0.1106 70 - 130 o-Xylene mg/Kg 111

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22243

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1245		mg/Kg		124	70 - 130	11	35	
Toluene	0.100	0.1183		mg/Kg		118	70 - 130	9	35	
Ethylbenzene	0.100	0.1133		mg/Kg		113	70 - 130	5	35	
m-Xylene & p-Xylene	0.200	0.2347		mg/Kg		117	70 - 130	5	35	
o-Xylene	0.100	0.1165		mg/Kg		117	70 - 130	5	35	

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	113	70 - 130

Lab Sample ID: 890-2130-A-1-C MS

Matrix: Solid

Analysis Batch: 22424

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 22243

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U F1	0.0990	0.01306	F1	mg/Kg		13	70 - 130	
Toluene	<0.00198	U F1	0.0990	0.01961	F1	mg/Kg		20	70 - 130	

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Prep Type: Total/NA

3

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12820-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

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

Lab Sample ID: 890-2130-A-1-C MS

Matrix: Solid

Analysis Batch: 22424

Client Sample ID: Matrix Spike Prep Type: Total/NA Prep Batch: 22243

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00198	U F1	0.0990	0.02046	F1	mg/Kg		21	70 - 130
m-Xylene & p-Xylene	<0.00397	U F1	0.198	0.04644	F1	mg/Kg		23	70 - 130
o-Xylene	<0.00198	U F1	0.0990	0.02723	F1	mg/Kg		27	70 - 130

MS MS

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-2130-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 22424 Prep Batch: 22243 Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Result Qualifier %Rec RPD Limit Analyte Limits Unit Benzene <0.00198 UF1 0.100 0.01827 F1 mg/Kg 18 70 - 130 33 35 Toluene <0.00198 U F1 0.100 0.01840 F1 mg/Kg 18 70 - 130 6 35 Ethylbenzene <0.00198 UF1 0.100 0.02171 F1 22 70 - 130 35 mg/Kg 6 0.200 23 35 m-Xylene & p-Xylene <0.00397 UF1 0.04688 F1 mq/Kq 70 - 130

0.02815 F1

0.100

MSD MSD Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 103 1,4-Difluorobenzene (Surr) 70 - 130 102

<0.00198 U.F1

MD MD

Lab Sample ID: MB 880-22286/5-A

Matrix: Solid

o-Xylene

Analysis Batch: 22424

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 22286

mg/Kg

28

70 - 130

	IND	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/26/22 20:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/25/22 12:30	03/26/22 20:25	1

MB MB Qualifier Limits Prepared Dil Fac Surrogate %Recovery Analyzed 4-Bromofluorobenzene (Surr) 03/25/22 12:30 101 70 - 130 03/26/22 20:25 03/25/22 12:30 1,4-Difluorobenzene (Surr) 103 70 - 130 03/26/22 20:25

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

Lab Sample ID: MB 880-22247/1-A

Matrix: Solid

Analysis Batch: 22239

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 22247

MB MB Result Qualifier RL Unit Prepared Analyzed <50.0 U 50.0 mg/Kg 03/24/22 08:53 03/24/22 11:17 Gasoline Range Organics

(GRO)-C6-C10

Client: WSP USA Inc. Job ID: 880-12820-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

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

Lab Sample ID: MB 880-22247/1-A

Matrix: Solid

Analysis Batch: 22239

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22247

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/24/22 08:53	03/24/22 11:17	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/24/22 08:53	03/24/22 11:17	1

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	119		70 - 130	03/24/22 08:53	03/24/22 11:17	1
l	o-Terphenyl	124		70 - 130	03/24/22 08:53	03/24/22 11:17	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-22247/2-A **Matrix: Solid**

Analysis Batch: 22239

Prep Type: Total/NA Prep Batch: 22247

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	769.8		mg/Kg		77	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1087		mg/Kg		109	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-22247/3-A

Matrix: Solid

Analysis Batch: 22239

Client Sample ID: Lab Control Sample Du

Prep Type: Total/NA Prep Batch: 22247

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 671.6 *mg/Kg 67 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 918.7 mg/Kg 92 70 - 130 17 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 95 70 - 130 o-Terphenyl 88 70 - 130

Lab Sample ID: 880-12803-A-1-C MS

Matrix: Solid

Analysis Batch: 22239

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 22247

	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 *-	998	1227		mg/Kg		120	70 - 130	
Diesel Range Organics (Over	<49.8	U	998	1212		mg/Kg		119	70 - 130	

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	98		70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12820-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

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

Lab Sample ID: 880-12803-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 22239 Prep Type: Total/NA Prep Batch: 22247

Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.8 U *-999 1018 mg/Kg 99 70 - 130 19 20 (GRO)-C6-C10 999 Diesel Range Organics (Over <49.8 U 1064 mg/Kg 104 70 - 130 13

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	85		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22470/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 22721

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			03/31/22 11:36	1

Lab Sample ID: LCS 880-22470/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 22721

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	234.5		mg/Kg		94	90 - 110	

Lab Sample ID: LCSD 880-22470/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 22721

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	234.4		ma/Ka		94	90 110		20

Lab Sample ID: 880-12799-A-2-G MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 22721

	Sample	Sample	Бріке	IVIO	IVIS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	5140		2500	7478		mg/Kg	_	94	90 - 110	

Lab Sample ID: 880-12799-A-2-H MSD

Matrix: Solid

Analysis Batch: 22721

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	5140		2500	7546		mg/Kg		97	90 - 110	1	20

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Prep Type: Soluble

Client Sample ID: Matrix Spike Duplicate

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 880-12820-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

GC VOA

Prep Batch: 22243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12820-1	PH05	Total/NA	Solid	5035	
880-12820-2	PH05A	Total/NA	Solid	5035	
880-12820-3	PH05B	Total/NA	Solid	5035	
MB 880-22243/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22243/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22243/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2130-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2130-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 22286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-22286/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 22424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12820-1	PH05	Total/NA	Solid	8021B	22243
880-12820-2	PH05A	Total/NA	Solid	8021B	22243
880-12820-3	PH05B	Total/NA	Solid	8021B	22243
MB 880-22243/5-A	Method Blank	Total/NA	Solid	8021B	22243
MB 880-22286/5-A	Method Blank	Total/NA	Solid	8021B	22286
LCS 880-22243/1-A	Lab Control Sample	Total/NA	Solid	8021B	22243
LCSD 880-22243/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22243
890-2130-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	22243
890-2130-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22243

Analysis Batch: 22503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12820-1	PH05	Total/NA	Solid	Total BTEX	
880-12820-2	PH05A	Total/NA	Solid	Total BTEX	
880-12820-3	PH05B	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12820-1	PH05	Total/NA	Solid	8015B NM	22247
880-12820-2	PH05A	Total/NA	Solid	8015B NM	22247
880-12820-3	PH05B	Total/NA	Solid	8015B NM	22247
MB 880-22247/1-A	Method Blank	Total/NA	Solid	8015B NM	22247
LCS 880-22247/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22247
LCSD 880-22247/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22247
880-12803-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	22247
880-12803-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22247

Prep Batch: 22247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12820-1	PH05	Total/NA	Solid	8015NM Prep	
880-12820-2	PH05A	Total/NA	Solid	8015NM Prep	
880-12820-3	PH05B	Total/NA	Solid	8015NM Prep	
MB 880-22247/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22247/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Eurofins Midland

Page 13 of 20

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 880-12820-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

GC Semi VOA (Continued)

Prep Batch: 22247 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-22247/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12803-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12803-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12820-1	PH05	Total/NA	Solid	8015 NM	
880-12820-2	PH05A	Total/NA	Solid	8015 NM	
880-12820-3	PH05B	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12820-1	PH05	Soluble	Solid	DI Leach	_
880-12820-2	PH05A	Soluble	Solid	DI Leach	
880-12820-3	PH05B	Soluble	Solid	DI Leach	
MB 880-22470/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-12799-A-2-G MS	Matrix Spike	Soluble	Solid	DI Leach	
880-12799-A-2-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 22721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12820-1	PH05	Soluble	Solid	300.0	22470
880-12820-2	PH05A	Soluble	Solid	300.0	22470
880-12820-3	PH05B	Soluble	Solid	300.0	22470
MB 880-22470/1-A	Method Blank	Soluble	Solid	300.0	22470
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	300.0	22470
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22470
880-12799-A-2-G MS	Matrix Spike	Soluble	Solid	300.0	22470
880-12799-A-2-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	22470

Eurofins Midland

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Client: WSP USA Inc. Job ID: 880-12820-1 Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Client Sample ID: PH05 Date Collected: 03/22/22 13:40 Lab Sample ID: 880-12820-1

Matrix: Solid

Date Received: 03/23/22 14:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 19:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22503	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22319	03/24/22 19:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	22247	03/24/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22239	03/24/22 16:24	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		1			22721	03/31/22 15:42	SC	XEN MID

Lab Sample ID: 880-12820-2

Matrix: Solid

Date Collected: 03/22/22 13:50 Date Received: 03/23/22 14:11

Client Sample ID: PH05A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 19:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22503	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22319	03/24/22 19:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22247	03/24/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22239	03/24/22 16:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		1			22721	03/31/22 15:50	SC	XEN MID

Client Sample ID: PH05B

Date Collected: 03/22/22 14:08 Date Received: 03/23/22 14:11

Lab Sample ID: 880-12820-3 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 19:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22503	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22319	03/24/22 19:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22247	03/24/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22239	03/24/22 17:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		1			22721	03/31/22 15:59	SC	XEN MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 880-12820-1

 Project/Site: Leamex 8 Battery
 SDG: 32.816111, -103.621202

Laboratory: Eurofins Midland

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

Authority Texas		rogram	Identification Number	Expiration Date
		IELAP	T104704400-21-22	06-30-22
The following analytes the agency does not of		out the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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Method Description

Total BTEX Calculation

Microextraction

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Method Summary

Client: WSP USA Inc.

Method

8021B

Total BTEX 8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

Project/Site: Leamex 8 Battery

Job ID: 880-12820-1

SDG: 32.816111, -103.621202

XEN MID

XEN MID

Protocol	Laboratory
SW846	XEN MID
TAL SOP	XEN MID
SW846	XEN MID
SW846	XEN MID
MCAWW	XEN MID
SW846	XEN MID

SW846

ASTM

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Sample Summary

Client: WSP USA Inc.

Project/Site: Leamex 8 Battery

Job ID: 880-12820-1

SDG: 32.816111, -103.621202

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-12820-1	PH05	Solid	03/22/22 13:40	03/23/22 14:11	1
880-12820-2	PH05A	Solid	03/22/22 13:50	03/23/22 14:11	2
880-12820-3	PH05B	Solid	03/22/22 14:08	03/23/22 14:11	3

Project Manager Company Name

WSP USA Inc Kaleı Jennings

Bill to (if different)

WSP USA Inc Kaleı Jennings

Program UST/PST□ PRP□ BrownfieldS□ RRC□

Superfund []

Work Order Comments

www xenco com

Page

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Address Company Name

Chain of Custody

Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6701 Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334 Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199 Phoenix AZ (480) 355-0900 Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296 Atlanta GA (770) 449-8800

880-12820			
Chair			
of Custody			

5	"Madri (Relinquished by: (Signature)	of service. Xenco will be liable only for the cost 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 regordated.	Circle Method(s) a					8 SOH Q	PH05A	Saka	Sample Identification	Sample Custody Seals	Cooler Custody Seals	Received Intact:	SAMPLE RECEIPT	PO #	Sampler's Name	Project Location	Project Number	Project Name	Phone 8	City State ZIP	Address
	Green	(Signature)	ble only for the cost of s ge of \$75.00 will be appli	Circle Method(s) and Metal(s) to be analyzed							S		Yes No	٥	Yes No	PT Temp Blank		Hadlı	32.816111, -103.621207	3403720.000	LEAMEX 8	817-683-2503	Midland, TX 79705	3300 North A Street Bldg 1 Unit 222
		Received by (Signature)	amples and shall not as ed to each project and a	e analyzed TCL					<u> </u>		SL 3-22-22	Matrix Date Sampled	1	(N/) Correction Factor		lank Yes (No)		Hadlie Green	03.621202	20.02	8 BATTERN			et Bldg 1 Unit 222
	J. W.	(Signature)	Xenco will be liable only for the cost of samples constitutes a value purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	CRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	11 1				H:08 3		13:40 1	Time Depth	rs.	tor	Thermometer ID	Wet ice (XES) No		Due Date S DAN		Routine X	Turn Around	Email kaleı jennıı	City State ZIP	Address
	3/28	, Date/Time	om client company any losses or expe le submitted to Xer	11 Al Sb As					•		-	Numbe				s/Pre	L	_	re Co	ode		kaleı jennings@wsp com	ZIP	
6	22 2	Time	to Xenco, its affilinses incurred by inco, but not analyz	Ba Be B Cd				\vdash	<		-	TPH (EF			300)									
		Relinquished by: (Signature)	iates and subcontractors. the client if such losses a zed. These terms will be e	Cd Ca Cr Co Cu d Cr Co Cu Pb M																	ANALYSIS REQ			
		Signature)	It assigns standar re due to circumsta nforced unless pre	Fe Pb Mg Mr In Mo Ni Se /																	REQUEST	Deliver	Report	Stat
		Received by (Signature)	d terms and conditions ances beyond the control viously negotiated.	Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr o Ni Se Ag Ti U 1631/245																	***************************************	Deliverables EDD	Reporting Level IP	State of Project
		(Signature)		g SiO2 Na Sr T 1631 / 245.								Sar	TAT star	Zn Aceta	меон ме	NaOH Na	None NO	HCL HL	H2S04 H2	HNO3 HN	Pre	ADaPT 🗀	PST/US [□]	
		Date/Time		02 Na Sr Tl Sn U V Zn 1631 / 245.1 / 7470 / 7471 Hg		111111111111111111111111111111111111111				7.444.		Sample Comments	TAT starts the day recevied by the lab if received by 4.30pm	Zn Acetate+ NaOH Zn	ति वि)	où '	J	Ē	5	Z	Preservative Codes	٠.	TRRP Level A	6 C C C C C C C C C C C C C C C C C C C

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 880-12820-1

SDG Number: 32.816111, -103.621202

Login Number: 12820 List Source: Eurofins Midland List Number: 1

Creator: Rodriguez, Leticia

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

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Eurofins Midland



APPENDIX E

Final C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NAPP2200641724
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	ConocoPhillips	OGRID	217817						
Contact Name	Kelsy Waggaman	Contact Telephone	(432) 688 - 9057						
Contact email	Kelsy.Waggaman@ConocoPhillips.com Incident # (assigned by OCD) NAPP2200641724								
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701								

			Location of	of Release Source	
Latitude	32.816	5111		Longitude -1	03.621202
			(NAD 83 in deci	mal degrees to 5 decimal places	
Site Name		Leamex 8		Site Type	FlowLine
Date Release Discovered December 20, 2021 API# (if applicable)					
Unit Letter	Section	Township	Range	County	
M	24	17S	33E	Lea	

Nature and Volume of Release

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 104	Volume Recovered (bbls) 100
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	■ Yes □ No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		
	aused by a Main Injection Line Undergrou I have the spill area evaluated for any pos	·
ConocoPhillips wil	I have the spill area evaluated for any pos	ssible impact from the release.

Received by OCD: 9/16/2022/1:49:10 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

Page 225 of 231	
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Incident ID	NAPP2200641724
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	nsible party consider this a major release?
release as defined by	The volume released was greate	er than 25 barrels.
19.15.29.7(A) NMAC?		
■ Yes □ No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?
		nan via email December 21, 2021 at 11:34 AM to
spills@sio.state.nr	m.us and ocd.enviro@state.nm.u	S.
	Initial R	esponse
The responsible	party must undertake the following actions immediater	y unless they could create a safety hazard that would result in injury
■ The source of the rele	ease has been stopped.	
■ The impacted area ha	is been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
		·
B 10.15.20.0 B (4) NH	14 C d	
		emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred
0 1		please attach all information needed for closure evaluation.
I hereby certify that the info	rmation 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 noti	fications and perform corrective actions for releases which may endanger
public health or the environing	nent. The acceptance of a C-141 report by the Cate and remediate contamination that pose a thre	OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance o		responsibility for compliance with any other federal, state, or local laws
and/or regulations.	=	E. C. Communication
Printed Name Brittar	ıy N. Esparza	Title: Environmental Technician
Signature:	ny N. Esparza	Date: 1/6/2022 Telephone: (432) 221-0398
Brittany.Espar	za@ConocoPhillips.com	(432) 221-0398
email:		Telephone: (102) 221 0000
OCD Only		
-	_	
Received by: Ramona N	Marcus	Date: 1/6/2022

NAPP2200641724

See reference table below

Asset Area: Maljamar Release Discovery Date & Time:

Was the release on pad or off-pad?

12/20/2021 10:00

Release Type: Produced Water

Provide any known details about the event: Main Injection Line Underground Leak

Spill Calculation - Subsurface Spill - Rectangle

Has it rained at least a half inch in the last 24 hours?				below		
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	74.0	5.0	0.50	15.32%	2.744	0.420
Rectangle B	83.0	32.0	0.50	15.32%	19.699	3.018
Rectangle C	95.0	19.0	0.50	15.32%	13.387	2.051
Rectangle D	64.0	53.0	4.00	15.32%	201.259	30.833
Rectangle E	240.0	25.0	0.50	15.32%	44.500	6.817
Rectangle F					0.000	0.000
Rectangle G					0.000	0.000
Rectangle H					0.000	0.000
Rectangle I		l l		1 1	0.000	0.000
Released to Imaging	g: 1/6/2022 4:34	:04 PM			0.000	0.000
				7	Total Volume Release:	43.139

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 70854

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	70854
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created B	y Condition	Condition Date
rmarcus	None	1/6/2022

	Page 228 of 23	31
Incident ID	NAPP2200641724	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

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

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

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	1 1180 220 0) 2
Incident ID	NAPP2200641724
District RP	
Facility ID	
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:Bryce Wagoner	Title:Permian HSE Specialist II		
Signature: Typ Wy	Date:9/16/2022		
email: _Bryce.Wagoner@mavresources.com	Telephone:928-241-1862		
OCD Only			
Received by:Jocelyn Harimon	Date:09/16/2022		

ate of New Mexico

Incident ID	NAPP2200641724
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.				
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation points ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC ☑ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 				
1 Toposed selectation (note in remediation plan amenic is more than 70 days oct approval is required)				
<u>Deferral Requests Only</u> : Each of the following items must be confirmed as part of any request for deferral of remediation.				
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.				
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health, the environment, or groundwater.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name:Bryce_Wagoner Title:Permian HSE Specialist II				
Signature: Date:9/16/2022				
email:Bryce.Wagoner@mavresources.com Telephone:928-241-1862				
OCD Only				
Jocelyn Harimon 09/16/2022				
Received by: Date:				
☐ Approved				
Signature: Date: 09/21/2022				

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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 144163

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1111 Bagby Street Suite 1600	Action Number:
Houston, TX 77002	144163
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Composite confirmation samples will be collected from the bottom of the excavation from areas representing no more than four hundred (400) square feet. Composite confirmation samples will be collected from the sidewalls of the excavation from areas representing no more than two hundred (200) square feet.	9/21/2022