

June 14, 2022

District 1 New Mexico Oil Conservation Division 1625 N. French Dr. Hobbs, New Mexico 88240

Re: Closure Request

Macho Nacho 002H

Incident Number NAPP2200644754

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of COG Operating, LLC (COG), has prepared this Closure Request to document site assessment, excavation, and soil sampling activities performed at the Macho Nacho 002H (Site). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a crude oil flare fire at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, COG is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Number NAPP2200644754.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit E, Section 02, Township 24 South, Range 33 East, in Lea County, New Mexico (32.247778° N, 103.550278°W) and is associated with oil and gas exploration and production operations on New Mexico State Land.

On December 21, 2021, the dump controller failed and the high-level kill malfunctioned, causing approximately 1.3 barrels (bbls) of crude oil to release out of the flare. The released crude oil ignited and extinguished itself after reaching the ground. COG 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 NAPP2200644754.

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.

Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-02308, located approximately 1.3

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants
601 North Marienfeld Street | Midland, TX 79701 | ensolum.com
Texas PG Firm No. 50588 | Texas PE Firm No. F-21843



miles southwest of the Site. The groundwater well has a reported depth to groundwater of 20 feet bgs and a total depth of 40 feet bgs. Ground surface elevation at the groundwater well location is 3,593 feet above mean sea level (amsl), which is approximately 36 feet lower in elevation than the Site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Attachment 1.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 5,200 feet southwest 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): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On December 19, 2021, site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Nine preliminary assessment soil samples (SS01 through SS09) were collected within and around the release extent from a depth of 0.5 feet bgs, to assess the lateral extent of the release. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The visible release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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

Laboratory analytical results for preliminary soil samples SS01, SS04, and SS06 indicated that TPH concentrations exceeded the Closure Criteria. Laboratory analytical results for preliminary soil samples SS02, SS03, SS05, SS07, SS08, and SS09 indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on visible staining in the release area and laboratory analytical results for the preliminary soil samples, delineation and excavation activities were warranted.

DELINEATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On February 14, 2022 and May 25, 2022, Ensolum personnel were at the Site to perform delineation activities. Four boreholes (BH01 through BH04) were advanced via hand auger within the release extent



to assess the vertical extent of impacted soil. The boreholes were advanced to depths ranging from 1-foot to 2 feet bgs. Delineation soil samples were collected from the boreholes from depths ranging from 0.5 feet to 2 feet bgs. Soil from the boreholes was field screened for VOCs and chloride utilizing PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for the boreholes were logged on lithologic soil sampling logs, which are included in Appendix B. The borehole and delineation soil sample locations are depicted on Figure 3.

Laboratory analytical results for the delineation samples from boreholes BH02 through BH04, collected at depths ranging from 0.5 feet to 2 feet bgs, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for delineation sample BH01, collected at 0.5 feet bgs, indicated that TPH concentrations exceeded the Closure Criteria; subsequent delineation sample BH01A, collected at 1-foot bgs, was compliant with the Closure Criteria. Based on laboratory analytical results and field screening activities for the preliminary and delineation soil samples, the lateral and vertical extent of impacted soil was defined and excavation activities were warranted.

EXCAVATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

Upon completion of delineation activities, impacted soil was excavated from the release area as indicated by visible staining, laboratory analytical results for the preliminary soil samples, and field screening results for the delineation soil samples. Excavation activities were performed using track-mounted backhoe and transport vehicle. To direct excavation activities, soil was screened for VOCs and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to a depth of 1-foot bgs. Photographic documentation of the excavation activities is included in Appendix C.

Following removal of the impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS10 were collected from the floor of the excavation from a depth of 1-foot bgs. Due to the shallow depth of the excavation, soil from the sidewalls was incorporated into the floor samples. The excavation soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 4.

The excavation measured approximately 1,900 square feet. A total of approximately 45 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

Laboratory analytical results for excavation floor samples FS01, FS02, and FS04 through FS10 indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for floor sample FS03 indicated that TPH concentrations exceeded the Closure Criteria at 1-foot bgs. Additional soil was excavated in this area and subsequent sample FS03A, collected at 1.25 feet bgs, was compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the December 21, 2021, crude oil flare fire release. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no further remediation



was required. COG will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

Excavation of impacted soil has mitigated impacts at this Site. COG believes the remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2200644754. The Final C-141 is included in Appendix F.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or acole@ensolum.com.

Aimee Cole

Sincerely,

Ensolum, LLC

Kalei Jennings

Senior Scientist Senior Managing Scientist

cc: Charles Beauvais, ConocoPhillips Company

Appendices:

Figure 1 Site Location Map

Figure 2 Preliminary Soil Sample Locations
Figure 2 Delineation Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Appendix B Lithologic Soil Sampling Logs

Appendix C Photographic Log

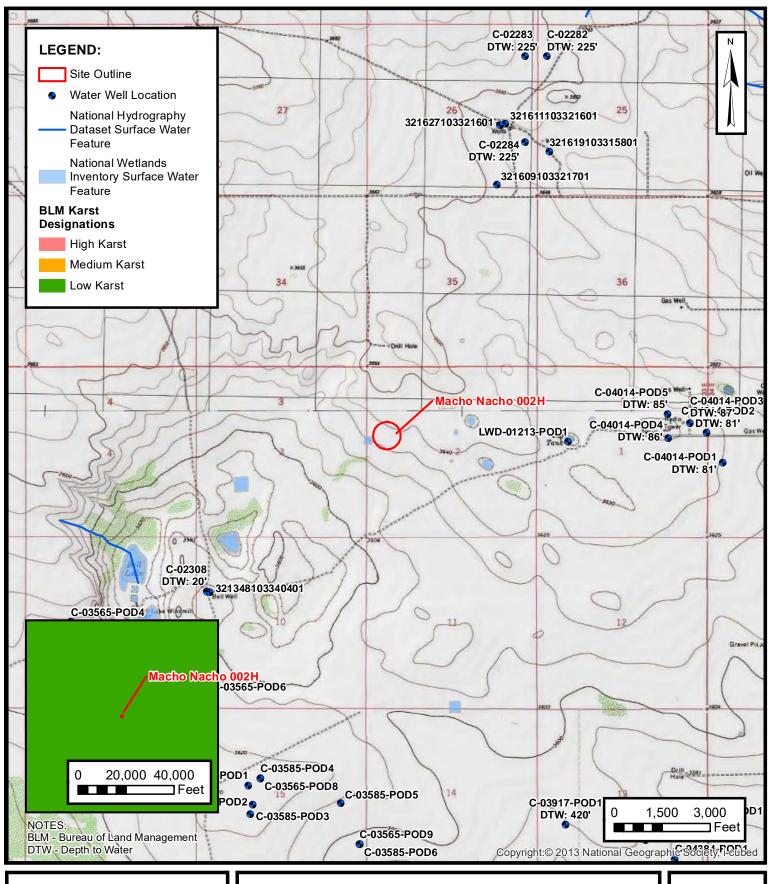
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Sample Notification

Appendix F Final C-141



FIGURES



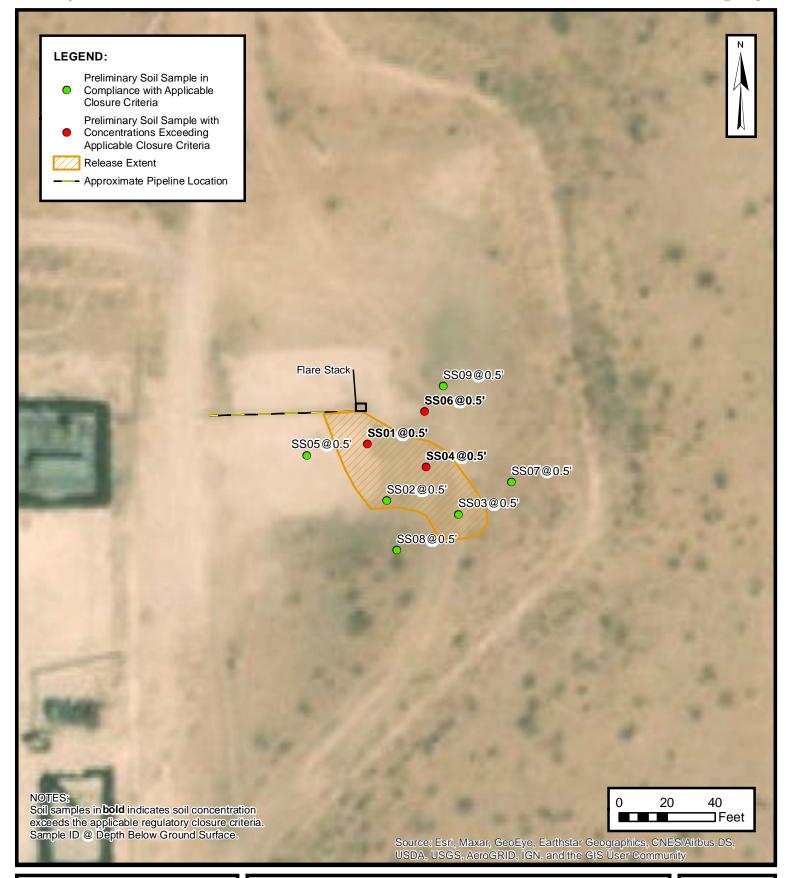


SITE LOCATION MAP

COG OPERATING, LLC MACHO NACHO 002H NAPP2200644754 Unit E, Sec 02, T24S, R33E Lea County, New Mexico FIGURE

1

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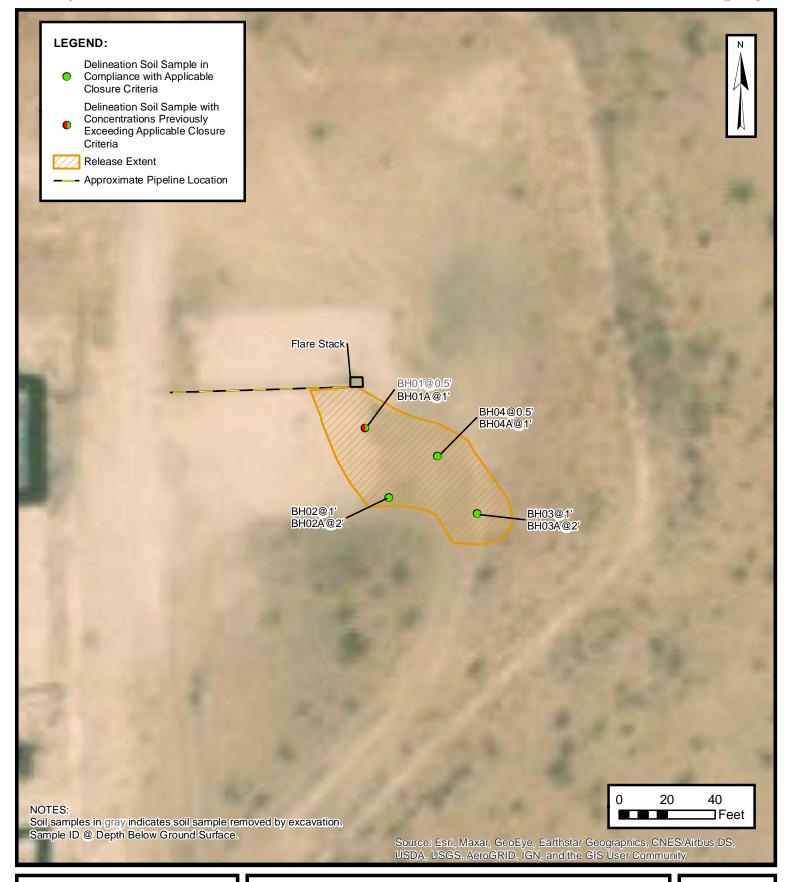




PRELIMINARY SOIL SAMPLE LOCATIONS

COG OPERATING, LLC MACHO NACHO 002H NAPP2200644754 Unit E, Sec 02, T24S, R33E Lea County, New Mexico FIGURE

2

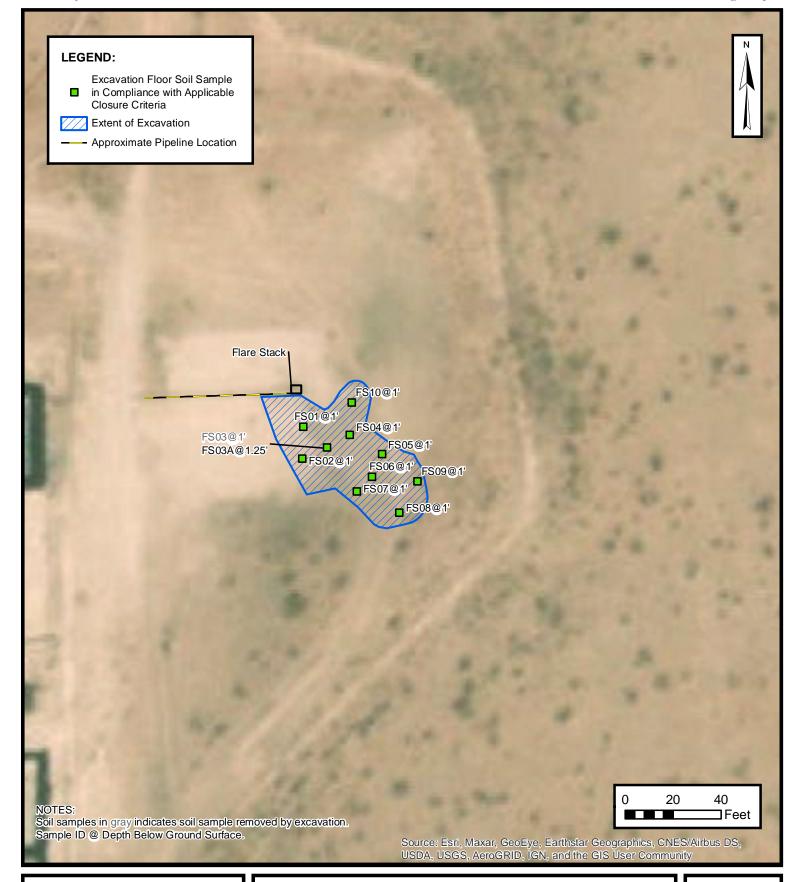




DELINEATION SOIL SAMPLE LOCATIONS

COG OPERATING, LLC MACHO NACHO 002H NAPP2200644754 Unit E, Sec 02, T24S, R33E Lea County, New Mexico FIGURE

3





EXCAVATION SOIL SAMPLE LOCATIONS

COG OPERATING, LLC MACHO NACHO 002H NAPP2200644754 Unit E, Sec 02, T24S, R33E

Lea County, New Mexico

4

FIGURE



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Macho Nacho 200H COG Operating, LLC 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 (l	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Prelimina	ry Assessment S	oil Samples				
SS01	12/19/2021	0.5	<0.00200	0.0327	<50.0	618	<50.0	618	618	202
SS02	12/19/2021	0.5	<0.00198	<0.00396	<49.9	88.4	<49.9	88.4	88.4	44.0
SS03	12/19/2021	0.5	<0.00200	0.00589	<50.0	78.8	<50.0	78.8	78.8	5.85
SS04	12/19/2021	0.5	<0.00199	<0.00398	<50.0	181	<50.0	181	181	10.7
SS05	12/19/2021	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	14.3
SS06	12/19/2021	0.5	<0.00199	<0.00398	<50.0	501	<50.0	501	501	74.3
SS07	12/19/2021	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	10.7
SS08	12/19/2021	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	9.12
SS09	05/25/2022	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	11.1
				Del	ineation Soil San	ıples				
BH01	02/14/2022	0.5	<0.00200	< 0.00399	<50.0	252	<50.0	252	252	58.9
BH01A	02/14/2022	1	<0.00201	<0.00402	<49.9	54.0	<49.9	54.0	54.0	38.7
BH02	02/14/2022	1	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	5.39
BH02A	05/25/2022	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	19.0
BH03	05/25/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	15.7
BH03A	05/25/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	39.2
BH04	02/14/2022	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	<4.97
BH04A	02/14/2022	1	<0.00199	<0.00398	<49.9	51.4	<49.9	51.4	51.4	19.8

Ensolum 1 of 2



TABLE 1 **SOIL SAMPLE ANALYTICAL RESULTS Macho Nacho 2H Battery 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	NE	100	600	
Excavation Floor Soil Samples										
FS01	03/23/2022	1	<0.00202	0.0147	<49.8	<49.8	<49.8	<49.8	<49.8	59.6
FS02	03/23/2022	1	<0.00199	<0.00398	<49.9	91.3	<49.9	91.3	91.3	71.4
FS03	03/23/2022	1	<0.00198	< 0.00396	<50.0	109	<50.0	109	109	36.2
FS03A	05/25/2022	1.25	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	25.0
FS04	03/23/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	17.9
FS05	03/23/2022	1	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	<4.97
FS06	03/23/2022	1	<0.00199	<0.00398	<49.7	93.6	<49.7	93.6	93.6	6.62
FS07	03/23/2022	1	<0.00200	0.0381	<50.0	<50.0	<50.0	<50.0	<50.0	7.88
FS08	03/23/2022	1	<0.00200	< 0.00399	<50.0	71.9	<50.0	71.9	71.9	8.51
FS09	03/23/2022	1	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	<5.04
FS10	05/25/2022	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	15.0

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

2 of 2 Ensolum

^{*} 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

Water Right Summary

get image list

WR File Number: C 02308 Subbasin: CUB Cross Reference:

Primary Purpose: STK 72-12-1 LIVESTOCK WATERING

Primary Status: DCL DECLARATION

Total Acres: 0 Subfile: - Header: -

Total Diversion: 3 Cause/Case: -

Owner: NGL WATER SOLUTIONS PERMIAN

Contact: R CHARLES WILKIN

Documents on File

					Sta	tus		r rom/			
		Trn #	Doc	File/Act	1	2	Transaction Desc.	To	Acres	Diversion Consumptive	
	g <u>et</u> images	633154	COWNF	2018-09-17	CHG	PRC	C 02308	T	0	0	
		207095	COWNF	2001-01-03	CHG	PRC	C 02308	T	0	0	
E	g <u>et</u> images	144622	DCL 1	998-02-09	DCL	PRC	C 02308 AMENDMENT	T	0	3	
		198285	DCL 1	993-04-20	DCL	PRC	C 02308	T	0	3	

Current Points of Diversion

(NAD83 UTM in meters)

		Ų			
POD Number	Well Tag S	Source 64Q16Q4Sec Tws Rng	X	Y	Other Location Desc
<u>C 02308</u>		1 3 1 10 24S 33E	634953	3567364*	

An () after northing value indicates UTM location was derived from PLSS - see Help

Priority Summary

Priority	Status	Acres	Diversion	Pod Number
12/31/1920	DCL	0	3	<u>C 02308</u>

Place of Use

Q Q 256 64 Q16 Q4Sec Tws Rng	Agras	Diversion	CU Use Priority	Status Other Location Desc
250 04 Q10 Q4566 1 W3 King	Acres	Diversion	Co ese Illumy	Status Other Location Desc
	0	3	STK	DCL NO PLACE OF USE GIVEN
	0	3	STK 06/30/1920	DCL NO PLACE OF USE GIVEN

Source

Acres	Diversion	CU	Use	Priority	Source	Description
0	3		STK		GW	
0	3		STK	06/30/1920	GW	

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, usability, or suitability for any particular purpose of the data.

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WATER RIGHT SUMMARY



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

X Y

C 02308 1 3 1 10 24S 33E

634953 3567364*

9

Driller License:

Driller Name: UNKNOWN

Drill Start Date:01/01/1920Drill Finish Date:06/30/1920Plug Date:Log File Date:PCW Rcv Date:Source:

Driller Company:

Pump Type:Pipe Discharge Size:Estimated Yield:15 GPMCasing Size:6.63Depth Well:40 feetDepth Water:20 feet

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, usability, or suitability for any particular purpose of the data.

12/27/21 1:34 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources	(Cooperator Access)	Data Category:		Geographic Area:		
0505 Water Resources	(Cooperator Access)	Site Information	~	United States	~ [GO

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- Full News

USGS 321348103340401 24S.33E.10.13123

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

Well Site

DESCRIPTION:

Latitude 32°14'04.9", Longitude 103°34'02.4" NAD83 Lea County, New Mexico , Hydrologic Unit 13070007

Well depth: 36 feet

Land surface altitude: 3,592 feet above NAVD88.

Well completed in "Other aquifers" (N9999OTHER) national aquifer. Well completed in "Ogallala Formation" (1210GLL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count		
Field groundwater-level measurements	1953-11-27	1996-03-13	7		
Revisions	Unavailable (site:0) (timeseries:0				

OPERATION:

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

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

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Accessibility FOIA Privacy Policies and Notices

<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u>

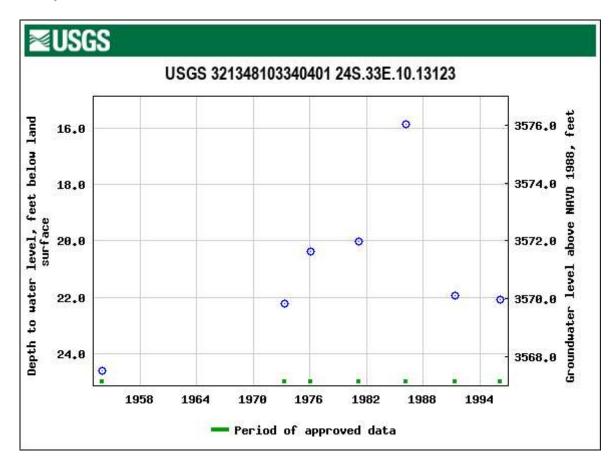
Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=321348103340401

Page Contact Information: <u>New Mexico Water Data Support Team</u>

Page Last Modified: 2021-12-27 15:30:27 EST

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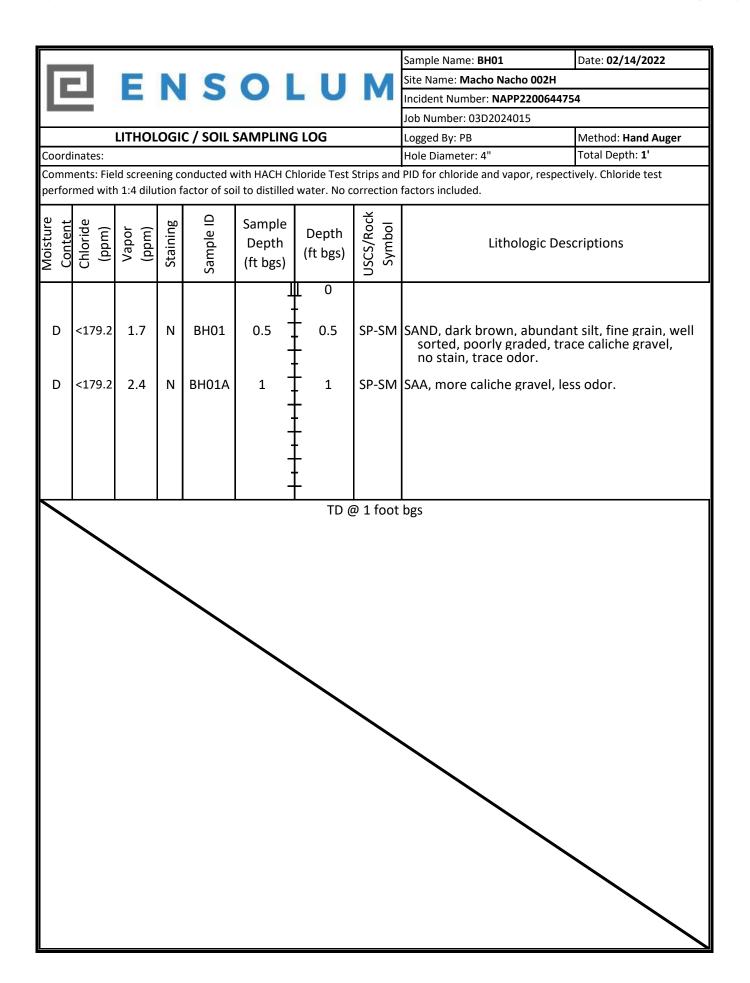


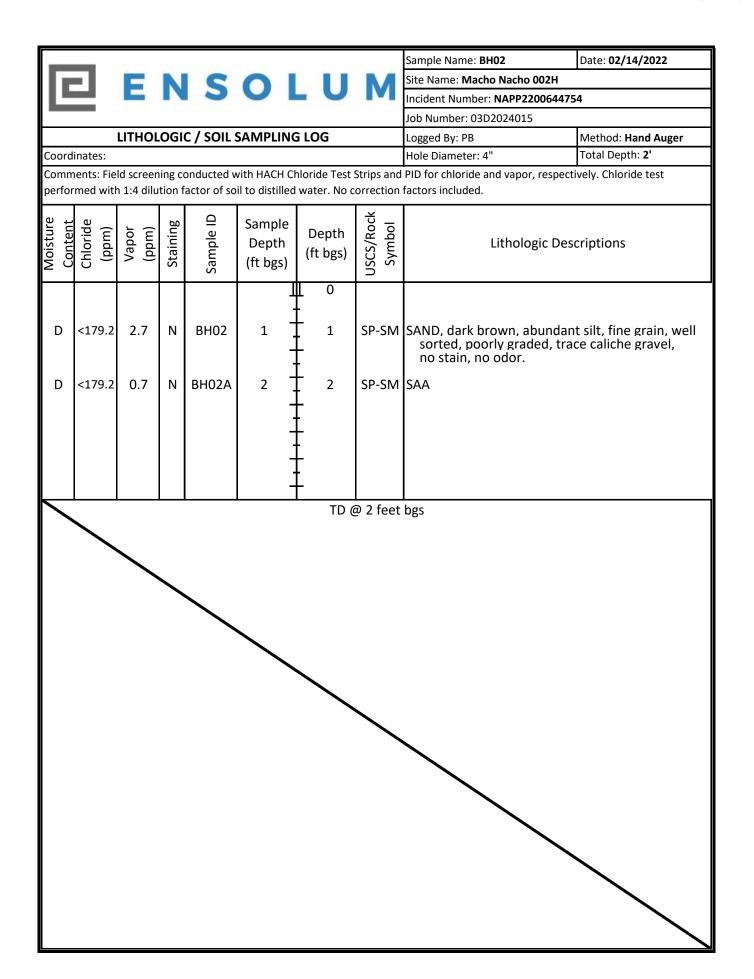


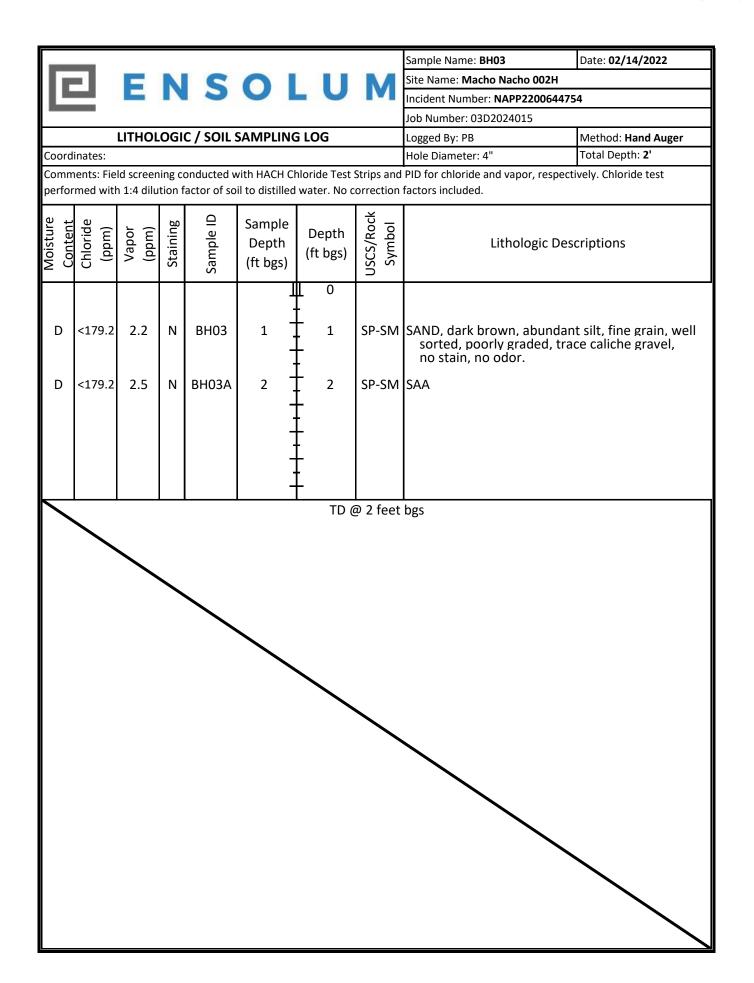


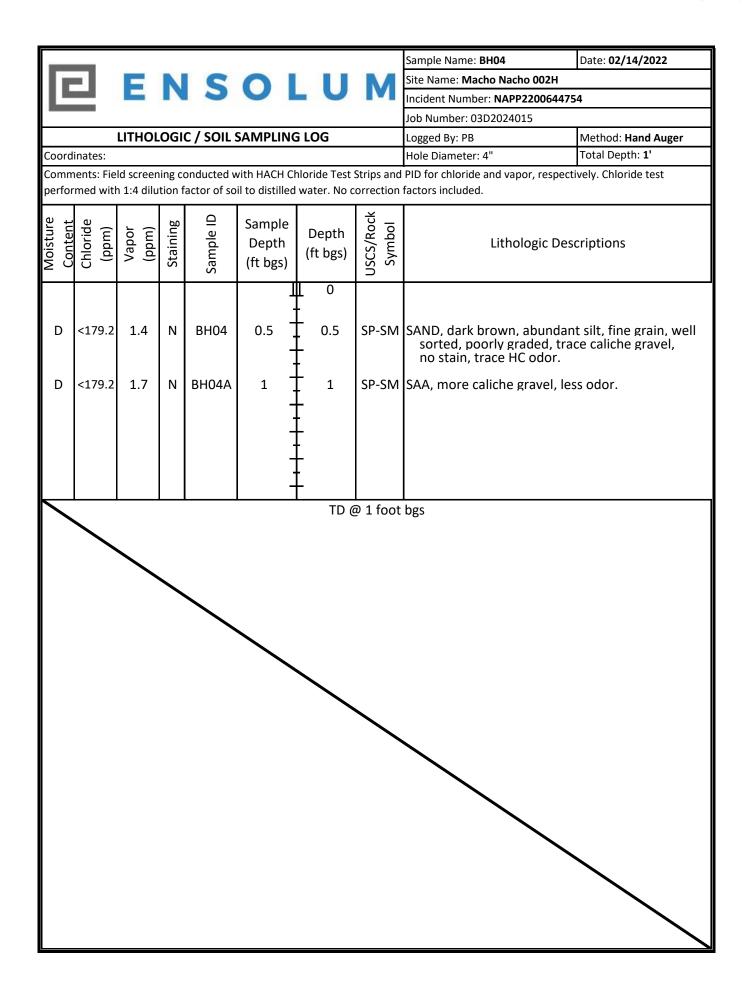
APPENDIX B

Lithologic Soil Sampling Logs











APPENDIX C

Photographic Log

ENSOLUM

Photographic Log

COG Operating, LLC
Macho Nacho 002H
Incident Number NAPP2200644754





Photograph 1

Date: February 14, 2022

Description: View of BH02 location during delineation.

Photograph 2 Date: May 25, 2022

Description: View of excavation extent.





Photograph 3

Date: May 25, 2022

Description: View of excavation extent.

Photograph 4

Date: May 25, 2022

Description: View of excavation extent.



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1987-1

Laboratory Sample Delivery Group: 31403720.000 Client Project/Site: MACHO NACHO 2H BATTERY

For:

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

Attn: Kalei Jennings

LAMER

Authorized for release by: 2/28/2022 3:32:20 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

·····LINKS ·······

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

Client: WSP USA Inc. Project/Site: MACHO NACHO 2H BATTERY Laboratory Job ID: 890-1987-1 SDG: 31403720.000

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3

4

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40

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12

14

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1987-1 Project/Site: MACHO NACHO 2H BATTERY

SDG: 31403720.000

Qualifiers

GC VOA 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**

S1-Surrogate recovery exceeds control limits, low biased. 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 Contains Free Liquid CFL CFU Colony Forming Unit Contains No Free Liquid **CNF**

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac Dilution Factor

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) Limit of Quantitation (DoD/DOE) LOQ

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit **PQL**

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

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Case Narrative

Client: WSP USA Inc.

Job ID: 890-1987-1 Project/Site: MACHO NACHO 2H BATTERY SDG: 31403720.000

Job ID: 890-1987-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1987-1

Receipt

The samples were received on 2/21/2022 11:51 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-20198 and analytical batch 880-20288 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH01 (890-1987-1), BH02 (890-1987-3), BH04 (890-1987-4), (890-1972-A-1-E), (890-1972-A-1-F MS) and (890-1972-A-1-G MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike duplicate (MSD) recoveries for preparation batch 880-20135 and analytical batch 880-20167 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.

Client: WSP USA Inc.

Client Sample ID: BH01

Date Collected: 02/14/22 09:43

Project/Site: MACHO NACHO 2H BATTERY

Lab Sample ID: 890-1987-1

Matrix: Solid

Job ID: 890-1987-1

SDG: 31403720.000

Date Received: 02/21/22 11:51 Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/26/22 23:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/26/22 23:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/26/22 23:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/24/22 10:28	02/26/22 23:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/26/22 23:36	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/24/22 10:28	02/26/22 23:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			02/24/22 10:28	02/26/22 23:36	1
1,4-Difluorobenzene (Surr)	92		70 - 130			02/24/22 10:28	02/26/22 23:36	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/28/22 10:45	1
- Method: 8015 NM - Diesel Range	Organice (DP)	O) (GC)						
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	252		50.0	mg/Kg	— <u>-</u>		02/23/22 09:21	1
				3 3				
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		02/22/22 09:05	02/22/22 18:11	1
(GRO)-C6-C10								
Diesel Range Organics (Over	252		50.0	mg/Kg		02/22/22 09:05	02/22/22 18:11	1
C10-C28)	-E0.0		50.0	m a /// a		02/22/22 00:05	00/00/00 40:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/22/22 09:05	02/22/22 18:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130			02/22/22 09:05	02/22/22 18:11	1
o-Terphenyl	69	S1-	70 - 130			02/22/22 09:05	02/22/22 18:11	1
-								
	omatography -	Soluble						
Method: 300.0 - Anions, Ion Chro Analyte	•	Soluble Qualifier	RL 5.02	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH01A

Date Collected: 02/14/22 09:52 Date Received: 02/21/22 11:51

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/24/22 10:28	02/26/22 23:57	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/24/22 10:28	02/26/22 23:57	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/24/22 10:28	02/26/22 23:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/24/22 10:28	02/26/22 23:57	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/24/22 10:28	02/26/22 23:57	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/24/22 10:28	02/26/22 23:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			02/24/22 10:28	02/26/22 23:57	1

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Lab Sample ID: 890-1987-2

Matrix: Solid

Client: WSP USA Inc.

Client Sample ID: BH01A

Date Collected: 02/14/22 09:52

Date Received: 02/21/22 11:51

Project/Site: MACHO NACHO 2H BATTERY

Lab Sample ID: 890-1987-2

Matrix: Solid

Job ID: 890-1987-1

SDG: 31403720.000

Sample Depth: 1

Method: 8021B - Volatile Organic Compou	unds (GC) (Continued)
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Surrogate	%Recovery Qu	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100	70 - 130	02/24/22 10:28	02/26/22 23:57	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			02/28/22 10:45	1

Method: 8015 NN	l - Diesel Range	Organics (DRO)	(GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.0		49.9	mg/Kg			02/23/22 09:21	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/22/22 09:05	02/22/22 18:31	1
Diesel Range Organics (Over C10-C28)	54.0		49.9	mg/Kg		02/22/22 09:05	02/22/22 18:31	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/22/22 09:05	02/22/22 18:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130	02/22/22 09:0	5 02/22/22 18:31	1
o-Terphenyl	77		70 - 130	02/22/22 09:0	5 02/22/22 18:31	1

Method: 300.0 - Anions,	lon Chromatogra	phy - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.7		5.04	mg/Kg			02/24/22 23:02	1

Lab Sample ID: 890-1987-3 **Client Sample ID: BH02**

Date Collected: 02/14/22 10:35 Date Received: 02/21/22 11:51

Sample Depth: 1

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

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	/						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/27/22 00:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/27/22 00:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/27/22 00:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/24/22 10:28	02/27/22 00:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/27/22 00:17	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/24/22 10:28	02/27/22 00:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			02/24/22 10:28	02/27/22 00:17	1
1,4-Difluorobenzene (Surr)	93		70 - 130			02/24/22 10:28	02/27/22 00:17	1

Mothod:	Total RTEY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00400	U	0.00400	ma/Ka			02/28/22 10:45	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC	Method: 8015 NM -	- Diesel Range	Organics (DRO)	(GC
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Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			02/23/22 09:21	1

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Matrix: Solid

2/28/2022

Matrix: Solid

Lab Sample ID: 890-1987-3

Client: WSP USA Inc. Job ID: 890-1987-1

Project/Site: MACHO NACHO 2H BATTERY SDG: 31403720.000

Client Sample ID: BH02

Date Collected: 02/14/22 10:35 Date Received: 02/21/22 11:51

Sample Depth: 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	<50.0	U	50.0	mg/Kg		02/22/22 09:05	02/22/22 18:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/22/22 09:05	02/22/22 18:52	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/22/22 09:05	02/22/22 18:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130			02/22/22 09:05	02/22/22 18:52	1
o-Terphenyl	70		70 - 130			02/22/22 09:05	02/22/22 18:52	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.39		4.98	mg/Kg			02/24/22 23:21	1

Client Sample ID: BH04 Lab Sample ID: 890-1987-4 Matrix: Solid

Date Collected: 02/14/22 10:02 Date Received: 02/21/22 11:51

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/27/22 00:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/27/22 00:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/27/22 00:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/24/22 10:28	02/27/22 00:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/27/22 00:38	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/24/22 10:28	02/27/22 00:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			02/24/22 10:28	02/27/22 00:38	1
1,4-Difluorobenzene (Surr)	95		70 - 130			02/24/22 10:28	02/27/22 00:38	1
Method: Total BTEX - Total BTE)	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			02/28/22 10:45	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			02/23/22 09:21	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		02/22/22 09:05	02/22/22 19:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/22/22 09:05	02/22/22 19:11	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/22/22 09:05	02/22/22 19:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130			02/22/22 09:05	02/22/22 19:11	1
o-Terphenyl	74		70 - 130			02/22/22 09:05	02/22/22 19:11	1

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2/28/2022

Client: WSP USA Inc. Project/Site: MACHO NACHO 2H BATTERY

Job ID: 890-1987-1 SDG: 31403720.000

Client Sample ID: BH04

Date Collected: 02/14/22 10:02 Date Received: 02/21/22 11:51

Lab Sample ID: 890-1987-4 Matrix: Solid

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chroma	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97	mg/Kg			02/24/22 23:27	1

Client Sample ID: BH04A Lab Sample ID: 890-1987-5 Matrix: Solid

Date Collected: 02/14/22 10:15

Date Received: 02/21/22 11:51

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		02/24/22 10:28	02/27/22 00:58	
Toluene	< 0.00199	U	0.00199	mg/Kg		02/24/22 10:28	02/27/22 00:58	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/24/22 10:28	02/27/22 00:58	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/24/22 10:28	02/27/22 00:58	
o-Xylene	< 0.00199	U	0.00199	mg/Kg		02/24/22 10:28	02/27/22 00:58	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/24/22 10:28	02/27/22 00:58	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	92		70 - 130			02/24/22 10:28	02/27/22 00:58	
1,4-Difluorobenzene (Surr)	97		70 - 130			02/24/22 10:28	02/27/22 00:58	1
Method: Total BTEX - Total BTE	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/22 10:45	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51.4		49.9	mg/Kg			02/23/22 09:21	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	<49.9	U	49.9	mg/Kg		02/22/22 09:05	02/22/22 19:31	1
Diesel Range Organics (Over C10-C28)	51.4		49.9	mg/Kg		02/22/22 09:05	02/22/22 19:31	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/22/22 09:05	02/22/22 19:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130			02/22/22 09:05	02/22/22 19:31	1
o-Terphenyl	89		70 - 130			02/22/22 09:05	02/22/22 19:31	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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Surrogate Summary

Client: WSP USA Inc.

Project/Site: MACHO NACHO 2H BATTERY

SDG: 31403720.000

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)	
880-11501-A-1-C MS	Matrix Spike	104	98	
880-11501-A-1-D MSD	Matrix Spike Duplicate	108	100	
890-1987-1	BH01	107	92	
890-1987-2	BH01A	91	100	
890-1987-3	BH02	108	93	
890-1987-4	BH04	112	95	
890-1987-5	BH04A	92	97	
LCS 880-20198/1-A	Lab Control Sample	104	103	
LCSD 880-20198/2-A	Lab Control Sample Dup	102	102	
MB 880-20197/5-A	Method Blank	95	98	
MB 880-20198/5-A	Method Blank	97	96	
Surrogate Legend				
BFB = 4-Bromofluorobei	nzene (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)	
0-1972-A-1-F MS	Matrix Spike	70	60 S1-	
)-1972-A-1-G MSD	Matrix Spike Duplicate	72	61 S1-	
0-1987-1	BH01	65 S1-	69 S1-	
0-1987-2	BH01A	70	77	
0-1987-3	BH02	64 S1-	70	
)-1987-4	BH04	68 S1-	74	
-1987-5	BH04A	76	89	
S 880-20026/2-A	Lab Control Sample	101	106	
SD 880-20026/3-A	Lab Control Sample Dup	100	106	
3 880-20026/1-A	Method Blank	75	91	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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11

4.0

14

Client: WSP USA Inc. Job ID: 890-1987-1

Project/Site: MACHO NACHO 2H BATTERY SDG: 31403720.000

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20197/5-A

Analysis Batch: 20288

Matrix: Solid

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

Prep Batch: 20197

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:24	02/25/22 23:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:24	02/25/22 23:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:24	02/25/22 23:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/24/22 10:24	02/25/22 23:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:24	02/25/22 23:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/24/22 10:24	02/25/22 23:18	1

MB MB

Surrogate	%Recovery Qua	lifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95	70 - 130	02/24/22 10:24	02/25/22 23:18	1
1,4-Difluorobenzene (Surr)	98	70 - 130	02/24/22 10:24	02/25/22 23:18	1

Lab Sample ID: MB 880-20198/5-A

Matrix: Solid

Analysis Batch: 20288

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

Prep Batch: 20198

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/26/22 17:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/26/22 17:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/26/22 17:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/24/22 10:28	02/26/22 17:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/26/22 17:30	1
Xvlenes Total	<0.00400	11	0.00400	ma/Ka		02/24/22 10:28	02/26/22 17:30	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	02/24/22 10:28	02/26/22 17:30	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/24/22 10:28	02/26/22 17:30	1

Lab Sample ID: LCS 880-20198/1-A

Matrix: Solid

Analysis Batch: 20288

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

Prep Batch: 20198

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09909		mg/Kg		99	70 - 130	
Toluene	0.100	0.09438		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.09155		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene	0.200	0.2087		mg/Kg		104	70 - 130	
o-Xylene	0.100	0.1037		mg/Kg		104	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	104	70 _ 130
1.4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: LCSD 880-20198/2-A

Matrix: Solid

Analysis Batch: 20288

Client Sample	ID: Lab Control	Sample Dup
	Dunin Ti	T-4-1/NIA

Prep Type: Total/NA

Prep Batch: 20198

	эріке		LCSD				%Rec.		KPD
Analyte	Added	Result (Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08953		mg/Kg		90	70 - 130	10	35

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QC Sample Results

Job ID: 890-1987-1 Client: WSP USA Inc. Project/Site: MACHO NACHO 2H BATTERY SDG: 31403720.000

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

Lab Sample ID: LCSD 880-20198/2-A

Matrix: Solid Analysis Batch: 20288 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 20198

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08354		mg/Kg		84	70 - 130	12	35
Ethylbenzene	0.100	0.08194		mg/Kg		82	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1894		mg/Kg		95	70 - 130	10	35
o-Xylene	0.100	0.09718		mg/Kg		97	70 - 130	6	35

LCSD LCSD

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

Lab Sample ID: 880-11501-A-1-C MS

Matrix: Solid

Analysis Batch: 20288

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20198

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U F1 F2	0.101	0.07725		mg/Kg		77	70 - 130	
Toluene	<0.00202	U F1 F2	0.101	0.07728		mg/Kg		76	70 - 130	
Ethylbenzene	<0.00202	U F1 F2	0.101	0.07397		mg/Kg		73	70 - 130	
m-Xylene & p-Xylene	<0.00404	U F1 F2	0.201	0.1703		mg/Kg		84	70 - 130	
o-Xylene	<0.00202	U F1	0.101	0.08428		mg/Kg		83	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: 880-11501-A-1-D MSD

Matrix: Solid

Analysis Batch: 20288

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20198

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U F1 F2	0.0996	0.05140	F1 F2	mg/Kg		52	70 - 130	40	35
Toluene	<0.00202	U F1 F2	0.0996	0.04948	F1 F2	mg/Kg		49	70 - 130	44	35
Ethylbenzene	<0.00202	U F1 F2	0.0996	0.04974	F1 F2	mg/Kg		49	70 - 130	39	35
m-Xylene & p-Xylene	<0.00404	U F1 F2	0.199	0.1148	F1 F2	mg/Kg		57	70 - 130	39	35
o-Xylene	<0.00202	U F1	0.0996	0.05988	F1	mg/Kg		60	70 - 130	34	35

MSD MSD

Surrogate	%Recovery Qualifier	r Limits
4-Bromofluorobenzene (Surr)	108	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

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

Lab Sample ID: MB 880-20026/1-A

Matrix: Solid

Analysis Batch: 20030

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

Prep Batch: 20026

мв мв Result Qualifier Unit Prepared <50.0 U 50.0 mg/Kg 02/22/22 09:05 02/22/22 11:45 Gasoline Range Organics

(GRO)-C6-C10

Client: WSP USA Inc.

Project/Site: MACHO NACHO 2H BATTERY

Job ID: 890-1987-1

SDG: 31403720.000

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

Lab Sample ID: MB 880-20026/1-A

Matrix: Solid

Analysis Batch: 20030

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20026

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		02/22/22 09:05	02/22/22 11:45	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/22/22 09:05	02/22/22 11:45	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	02/22/22 09:0	02/22/22 11:45	1
o-Terphenyl	91		70 - 130	02/22/22 09:0	02/22/22 11:45	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-20026/2-A **Matrix: Solid** Prep Type: Total/NA

Prep Batch: 20026 Analysis Batch: 20030

	Зріке	LUS	LUS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	849.9		mg/Kg		85	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1050		mg/Kg		105	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: LCSD 880-20026/3-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 20030							Prep	Batch:	20026
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	802.5		mg/Kg		80	70 - 130	6	20
(GRO)-C6-C10									

986.2

mg/Kg

70 - 130

70 - 130

	Diesel Range Organics (Over			1000	9
	C10-C28)				
ı		LCSD	LCSD		
	Surrogate %	%Recovery	Qualifier	Limits	

100

106

Lab Sample ID: 890-1972-A-1-F MS

Matrix: Solid

1-Chlorooctane

o-Terphenyl

Analysis Batch: 20030

Client Sample ID: Matrix Spike

70 - 130

Prep Type: Total/NA Prep Batch: 20026

%Rec. Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <50.0 U 1000 70 - 130 Gasoline Range Organics 1225 123 mg/Kg (GRO)-C6-C10 <50.0 U 1000 Diesel Range Organics (Over 1240 mg/Kg 122 70 - 130

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	70		70 - 130
o-Terphenyl	60	S1-	70 - 130

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QC Sample Results

Job ID: 890-1987-1 Client: WSP USA Inc. Project/Site: MACHO NACHO 2H BATTERY SDG: 31403720.000

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

Lab Sample ID: 890-1972-A-1-G MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 20030

Analysis Batch: 20030									Prep	Batch:	20026
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	998	1256		mg/Kg		126	70 - 130	2	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	998	1271		mg/Kg		126	70 - 130	2	20

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	72		70 - 130
o-Terphenyl	61	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-20135/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 20167

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/24/22 22:05	1

Lab Sample ID: LCS 880-20135/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 20167

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	249.6		mg/Kg		100	90 - 110	

Lab Sample ID: LCSD 880-20135/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 20167

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	262.2		mg/Kg		105	90 - 110	5	20	

Lab Sample ID: 890-1986-A-2-C MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 20167

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	132	F1	249	388 4		ma/Ka		103	90 110	

Lab Sample ID: 890-1986-A-2-D MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 20167

Alialysis Datcil. 20101											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	132	F1	249	318.8	F1	mg/Kg		75	90 - 110	20	20

QC Association Summary

Client: WSP USA Inc.

Project/Site: MACHO NACHO 2H BATTERY

Job ID: 890-1987-1 SDG: 31403720.000

03720.000

GC VOA

Prep Batch: 20197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-20197/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 20198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1987-1	BH01	Total/NA	Solid	5035	
890-1987-2	BH01A	Total/NA	Solid	5035	
890-1987-3	BH02	Total/NA	Solid	5035	
890-1987-4	BH04	Total/NA	Solid	5035	
890-1987-5	BH04A	Total/NA	Solid	5035	
MB 880-20198/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20198/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20198/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11501-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-11501-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 20288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1987-1	BH01	Total/NA	Solid	8021B	20198
890-1987-2	BH01A	Total/NA	Solid	8021B	20198
890-1987-3	BH02	Total/NA	Solid	8021B	20198
890-1987-4	BH04	Total/NA	Solid	8021B	20198
890-1987-5	BH04A	Total/NA	Solid	8021B	20198
MB 880-20197/5-A	Method Blank	Total/NA	Solid	8021B	20197
MB 880-20198/5-A	Method Blank	Total/NA	Solid	8021B	20198
LCS 880-20198/1-A	Lab Control Sample	Total/NA	Solid	8021B	20198
LCSD 880-20198/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20198
880-11501-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	20198
880-11501-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	20198

Analysis Batch: 20469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1987-1	BH01	Total/NA	Solid	Total BTEX	
890-1987-2	BH01A	Total/NA	Solid	Total BTEX	
890-1987-3	BH02	Total/NA	Solid	Total BTEX	
890-1987-4	BH04	Total/NA	Solid	Total BTEX	
890-1987-5	BH04A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 20026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1987-1	BH01	Total/NA	Solid	8015NM Prep	
890-1987-2	BH01A	Total/NA	Solid	8015NM Prep	
890-1987-3	BH02	Total/NA	Solid	8015NM Prep	
890-1987-4	BH04	Total/NA	Solid	8015NM Prep	
890-1987-5	BH04A	Total/NA	Solid	8015NM Prep	
MB 880-20026/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-20026/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-20026/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1972-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1972-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: WSP USA Inc.

Project/Site: MACHO NACHO 2H BATTERY

SDG: 31403720.000

GC Semi VOA

Analysis Batch: 20030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1987-1	BH01	Total/NA	Solid	8015B NM	20026
890-1987-2	BH01A	Total/NA	Solid	8015B NM	20026
890-1987-3	BH02	Total/NA	Solid	8015B NM	20026
890-1987-4	BH04	Total/NA	Solid	8015B NM	20026
890-1987-5	BH04A	Total/NA	Solid	8015B NM	20026
MB 880-20026/1-A	Method Blank	Total/NA	Solid	8015B NM	20026
LCS 880-20026/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20026
LCSD 880-20026/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20026
890-1972-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	20026
890-1972-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	20026

Analysis Batch: 20126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1987-1	BH01	Total/NA	Solid	8015 NM	
890-1987-2	BH01A	Total/NA	Solid	8015 NM	
890-1987-3	BH02	Total/NA	Solid	8015 NM	
890-1987-4	BH04	Total/NA	Solid	8015 NM	
890-1987-5	BH04A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 20135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1987-1	BH01	Soluble	Solid	DI Leach	
890-1987-2	BH01A	Soluble	Solid	DI Leach	
890-1987-3	BH02	Soluble	Solid	DI Leach	
890-1987-4	BH04	Soluble	Solid	DI Leach	
890-1987-5	BH04A	Soluble	Solid	DI Leach	
MB 880-20135/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-20135/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-20135/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
390-1986-A-2-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1986-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 20167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1987-1	BH01	Soluble	Solid	300.0	20135
890-1987-2	BH01A	Soluble	Solid	300.0	20135
890-1987-3	BH02	Soluble	Solid	300.0	20135
890-1987-4	BH04	Soluble	Solid	300.0	20135
890-1987-5	BH04A	Soluble	Solid	300.0	20135
MB 880-20135/1-A	Method Blank	Soluble	Solid	300.0	20135
LCS 880-20135/2-A	Lab Control Sample	Soluble	Solid	300.0	20135
LCSD 880-20135/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	20135
890-1986-A-2-C MS	Matrix Spike	Soluble	Solid	300.0	20135
890-1986-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	20135

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Client: WSP USA Inc.

Project/Site: MACHO NACHO 2H BATTERY

SDG: 31403720.000

Job ID: 890-1987-1

Client Sample ID: BH01

Lab Sample ID: 890-1987-1

Matrix: Solid

Date Collected: 02/14/22 09:43 Date Received: 02/21/22 11:51

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	20198	02/24/22 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20288	02/26/22 23:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20469	02/28/22 10:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20126	02/23/22 09:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20026	02/22/22 09:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20030	02/22/22 18:11	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	20135	02/23/22 10:11	CH	XEN MID
Soluble	Analysis	300.0		1			20167	02/24/22 22:55	SC	XEN MID

Client Sample ID: BH01A Lab Sample ID: 890-1987-2

Date Collected: 02/14/22 09:52 Matrix: Solid

Date Received: 02/21/22 11:51

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 20198 Total/NA Prep 4.97 g 5 mL 02/24/22 10:28 KL XEN MID Total/NA 8021B 5 mL 20288 02/26/22 23:57 XEN MID Analysis 1 5 mL MR Total/NA Total BTEX 20469 02/28/22 10:45 XEN MID Analysis A.I 1 Total/NA Analysis 8015 NM 20126 02/23/22 09:21 XEN MID Total/NA 20026 XEN MID Prep 8015NM Prep 10.02 g 02/22/22 09:05 DM 10 mL Total/NA Analysis 8015B NM 20030 02/22/22 18:31 AJ XEN MID Soluble XEN MID Leach DI Leach 4.96 g 50 mL 20135 02/23/22 10:11 CH Soluble Analysis 300.0 20167 02/24/22 23:02 SC XEN MID

Lab Sample ID: 890-1987-3 Client Sample ID: BH02

Date Collected: 02/14/22 10:35 Date Received: 02/21/22 11:51

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	20198	02/24/22 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20288	02/27/22 00:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20469	02/28/22 10:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20126	02/23/22 09:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20026	02/22/22 09:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20030	02/22/22 18:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	20135	02/23/22 10:11	CH	XEN MID
Soluble	Analysis	300.0		1			20167	02/24/22 23:21	SC	XEN MID

Client Sample ID: BH04 Lab Sample ID: 890-1987-4

Date Collected: 02/14/22 10:02 Date Received: 02/21/22 11:51

	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	20198	02/24/22 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20288	02/27/22 00:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20469	02/28/22 10:45	AJ	XEN MID

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Released to Imaging: 7/6/2022 3:19:30 PM

Matrix: Solid

Matrix: Solid

Client: WSP USA Inc.

Job ID: 890-1987-1 Project/Site: MACHO NACHO 2H BATTERY SDG: 31403720.000

Client Sample ID: BH04 Lab Sample ID: 890-1987-4

Date Collected: 02/14/22 10:02 Matrix: Solid Date Received: 02/21/22 11:51

	Ва	atch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep T	уре Ту	/pe	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/N	A Ar	nalysis	8015 NM		1			20126	02/23/22 09:21	AJ	XEN MID
Total/N	A Pr	ер	8015NM Prep			10.00 g	10 mL	20026	02/22/22 09:05	DM	XEN MID
Total/N	A Ar	nalysis	8015B NM		1			20030	02/22/22 19:11	AJ	XEN MID
Soluble	e Le	each	DI Leach			5.03 g	50 mL	20135	02/23/22 10:11	CH	XEN MID
Soluble	e Ar	nalysis	300.0		1			20167	02/24/22 23:27	SC	XEN MID

Client Sample ID: BH04A Lab Sample ID: 890-1987-5

Date Collected: 02/14/22 10:15 Matrix: Solid

Date Received: 02/21/22 11:51

	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	20198	02/24/22 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20288	02/27/22 00:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20469	02/28/22 10:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20126	02/23/22 09:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20026	02/22/22 09:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20030	02/22/22 19:31	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	20135	02/23/22 10:11	CH	XEN MID
Soluble	Analysis	300.0		1			20167	02/24/22 23:34	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: 890-1987-1 Project/Site: MACHO NACHO 2H BATTERY SDG: 31403720.000

Laboratory: Eurofins Midland

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

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

Method Summary

Client: WSP USA Inc.

Project/Site: MACHO NACHO 2H BATTERY

Job ID: 890-1987-1

SDG: 31403720.000

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

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Sample Summary

Client: WSP USA Inc.

Project/Site: MACHO NACHO 2H BATTERY SDG: 31

Job ID: 890-1987-1 SDG: 31403720.000

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1987-1	BH01	Solid	02/14/22 09:43	02/21/22 11:51	0.5
890-1987-2	BH01A	Solid	02/14/22 09:52	02/21/22 11:51	1
890-1987-3	BH02	Solid	02/14/22 10:35	02/21/22 11:51	1
890-1987-4	BH04	Solid	02/14/22 10:02	02/21/22 11:51	0.5
890-1987-5	BH04A	Solid	02/14/22 10:15	02/21/22 11:51	1

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XMZ00

City, State ZIP:

Midland, Texas 79705

3300 North A Street Building 1, unit 222

817-683-2503

Email: Kalei.jennings@wsp.com City, State ZIP:

Midland, Texas 79705

Reporting:Level II Level III ST/UST

TRAP []vel IV Other:

State of Project:

Deliverables: EDD

ADaPT 🗆

Program: UST/PST PRP Brownfields RC

Juperfund

www.xenco.com

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Work Order Comments

Address:

Company Name: Project Manager:

WSP USA

Kalei Jennings

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Chain of Custody

Company Name: WSP USA Progra	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	Program	Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 -355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813 Kalei Jennings WSP USA 3300 North A Street Building 1, unit 222	Midland,TX (432-704-5440) E 75-392-7550) Phoenix,AZ (48) Bill to: (if different) Company Name: Address:	Hobbs,NM (5
	ss,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) Bill to: (if different) Kalei Jennings Programany Name: WSP USA	Sta	3300 North A Street Building 1, unit 222	Address:	nit 222
	os,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)		Kalei Jennings		
		1-620-2000	355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813	75-392-7550) Phoenix,AZ (48)	bs,NM (5
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) Bill to: (if different) Kalei Jennings			Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, IX (210) 509-3334	louston,TX (281) 240-4200 Da	_

Project Name:	Macho Nacho 2H Battery	∃ Batte	2	Tu	Turn Around					ANALYSIS REQUEST	Work Order Notes	er Notes
Project Number:	31	31403720.00	0.00	Routine	ne 🗌							
P.O. Number:				Rush:								
Sampler's Name:	Payton Benner			Due Date:	Date:						_	
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	No Set							
Temperature (°C):	102	1.0	1	Thermometer ID	ס	ners)			
Received Intact:	Yes	No	TOMA	Jag J		ntai		21)	00.0	890-1987 Change		
Cooler Custody Seals:	Ye	MA	Corre	Correction Factor:	2.0	Соі	15)	0=80	A 3	Cusiody	TAT starts the day recevied by the	recevied by the
Sample Custody Seals	Yes	NR	Tota	Total Containers:		r of	A 80	PA (e (EF		lab, if received by 4:30pm	by 4:30pm
Sample Identification		Matrix	Date Sampled	Time	Depth	lumbe	PH (EF	TEX (hlorid		Sample Comments	mments
BH01		S	02/14/22	9:43	0.5	_	×	×	×		DISCRETE	ETE
BH01A		S	02/14/22	9:52	1	1	×	×	×		DISCRETE	ETE
BH02		S	02/14/22	10:35	1	1	×	×	×		DISCRETE	ETE
ВН04		S	02/14/22	10:02	0.5	_	×	×	×		DISCRETE	ETE
ВН04А	A	0,	02/14/22	10:15	1	-1	×	×	×		DISCRETE	ETE
Total 200.7 / 6010 Circle Method(s) a	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	20: o be an		CRA 13PF	8RCRA 13PPM Texas 11 AI TCLP / SPLP 6010: 8RCRA		Sb As Sb As	s Ba s Ba	Be B	Cd Ca Cr Co Cu Fe d Cr Co Cu Pb Mn M	Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn lo Ni Se Ag Tl U 1631/245.1/7470/7471:Hg	/ Zn / 7471 : Hg
Notice: Signature of this d of service. Xenco will be li of Xenco. A minimum cha	ocument and relinquis able only for the cost rge of \$75.00 will be a	hment of of sample oplied to e	samples constitus and shall not a	ites a valid purc ssume any resp a charge of \$5 fo	hase order from onsibility for any or each sample s	client co losses ubmitted	or expend to Xen	to Xenc nses inc co, but	o, its af iurred b	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	terms and conditions es beyond the control usly negotiated.	
Relinquished by: (Signature)	(Signature)		Received t	Received by: (Signature	е)		Date/	Date/Time		Relinquished by: (Signature)	Received by: (Signature)	Date/Time
3 th ben	my	1	1	9		7/2	15:11 22/12	112	15	0 4		
5										6		

Work Order No:

2/28/2022

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1987-1 SDG Number: 31403720.000

Login Number: 1987 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1987-1

SDG Number: 31403720.000

List Source: Eurofins Midland

List Creation: 02/22/22 02:59 PM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 1987

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

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2135-1

Laboratory Sample Delivery Group: 31403720.000 t5ask 26.02

Client Project/Site: Macho Nacho 2H Battery

For:

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

Attn: Kalei Jennings

JURAMER

Authorized for release by: 4/8/2022 10:07:36 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

····· Links ·····

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 7/6/2022 3:19:30 PM

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

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

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Client: WSP USA Inc. Project/Site: Macho Nacho 2H Battery Laboratory Job ID: 890-2135-1 SDG: 31403720.000 t5ask 26.02

Table of Contents

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Eurofins Carlsbad 4/8/2022

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-2135-1 Project/Site: Macho Nacho 2H Battery

SDG: 31403720.000 t5ask 26.02

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**

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
CEL	Contains Front Liquid

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

Decision Level Concentration (Radiochemistry) DLC

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 MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

Not Calculated NC

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: Macho Nacho 2H Battery

Job ID: 890-2135-1 SDG: 31403720.000 t5ask 26.02

Job ID: 890-2135-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2135-1

Receipt

The samples were received on 3/24/2022 9:23 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C

GC VOA

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

GC Semi VOA

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

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

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2135-1

Project/Site: Macho Nacho 2H Battery

SDG: 31403720.000 t5ask 26.02

Client Sample ID: FS01

Date Collected: 03/23/22 11:40

Lab Sample ID: 890-2135-1

Matrix: Solid

Date Collected: 03/23/22 11:40
Date Received: 03/24/22 09:23

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/25/22 11:00	03/26/22 15:07	1
Toluene	0.0147		0.00202	mg/Kg		03/25/22 11:00	03/26/22 15:07	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/25/22 11:00	03/26/22 15:07	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/25/22 11:00	03/26/22 15:07	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/25/22 11:00	03/26/22 15:07	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/25/22 11:00	03/26/22 15:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			03/25/22 11:00	03/26/22 15:07	1
1,4-Difluorobenzene (Surr)	105		70 - 130			03/25/22 11:00	03/26/22 15:07	1
Method: Total BTEX - Total BTE	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0147		0.00404	mg/Kg			03/28/22 12:44	1
Analyte Total TPH	Result <49.8	Qualifier U	RL 49.8	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/28/22 10:07	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/28/22 10:07	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	<49.8	U	49.8	mg/Kg		03/25/22 10:30	03/25/22 12:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		03/25/22 10:30	03/25/22 12:35	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/25/22 10:30	03/25/22 12:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			03/25/22 10:30	03/25/22 12:35	1
o-Terphenyl	102		70 - 130			03/25/22 10:30	03/25/22 12:35	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
		O 11.01		1114			A II	D0 F
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS04 Lab Sample ID: 890-2135-2

Date Collected: 03/23/22 11:46 Date Received: 03/24/22 09:23

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/25/22 11:00	03/26/22 15:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/25/22 11:00	03/26/22 15:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/25/22 11:00	03/26/22 15:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/25/22 11:00	03/26/22 15:27	1
o-Xylene	0.00358		0.00199	mg/Kg		03/25/22 11:00	03/26/22 15:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/25/22 11:00	03/26/22 15:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/25/22 11:00	03/26/22 15:27	1

Eurofins Carlsbad

Matrix: Solid

Client: WSP USA Inc.

Project/Site: Macho Nacho 2H Battery

Date Received: 03/24/22 09:23

Job ID: 890-2135-1

SDG: 31403720.000 t5ask 26.02

Client Sample ID: FS04 Lab Sample ID: 890-2135-2 Date Collected: 03/23/22 11:46

Matrix: Solid

Sample Depth: 1

Method: 8021B - Volatile Organ	nic Compounds	(GC)	(Continued)	
mothed collis	no compoundo	, – – ,	(00::::::::::::::::::::::::::::::::::::	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	112		70 - 130	03/25/22 11:00	03/26/22 15:27	1

ı				
ı	Method:	Total RTFX	: - Total BTEX	Calculation
ı	mictilou.	TOTAL DIE	- IOLAI DIEA	Oulculation

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

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

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	ma/Ka		·	03/28/22 10:07	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/25/22 10:30	03/25/22 13:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/25/22 10:30	03/25/22 13:37	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/25/22 10:30	03/25/22 13:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

1-Chlorooctane	92	70 - 130	03/2
o-Terphenyl	103	70 - 130	03/2

1-Chlorooctane	92	70 - 130	03/25/22 10:30	03/25/22 13:37	1
o-Terphenyl	103	70 - 130	03/25/22 10:30	03/25/22 13:37	1
_					

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.9	5.00	mg/Kg			04/07/22 13:47	1

Client Sample ID: FS05 Lab Sample ID: 890-2135-3 **Matrix: Solid**

Date Collected: 03/23/22 11:48 Date Received: 03/24/22 09:23

Sample Depth: 1

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

		()						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 11:00	03/26/22 15:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 11:00	03/26/22 15:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 11:00	03/26/22 15:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/25/22 11:00	03/26/22 15:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 11:00	03/26/22 15:48	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/25/22 11:00	03/26/22 15:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			03/25/22 11:00	03/26/22 15:48	1
1,4-Difluorobenzene (Surr)	106		70 - 130			03/25/22 11:00	03/26/22 15:48	1

Mothod:	Total RTEY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			03/28/22 12:44	1

	Method: 8015 NM - Diesel	Range Organics (DRO	D) (GC)	١
ı	Michiga. 00 to Min - Diese	i italige Organics (Ditt		,

Analyte	•	•	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			<49.8	U	49.8	mg/Kg			03/28/22 10:07	1

Lab Sample ID: 890-2135-3

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2135-1

Project/Site: Macho Nacho 2H Battery SDG: 31403720.000 t5ask 26.02

Client Sample ID: FS05 Date Collected: 03/23/22 11:48

Matrix: Solid Date Received: 03/24/22 09:23

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		03/25/22 10:30	03/25/22 13:58	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		03/25/22 10:30	03/25/22 13:58	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/25/22 10:30	03/25/22 13:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			03/25/22 10:30	03/25/22 13:58	1
o-Terphenyl	97		70 - 130			03/25/22 10:30	03/25/22 13:58	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
					_		A II	Dil Fee
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS06 Lab Sample ID: 890-2135-4 Date Collected: 03/23/22 11:50 Matrix: Solid

Date Received: 03/24/22 09:23

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/25/22 11:00	03/26/22 16:09	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/25/22 11:00	03/26/22 16:09	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/25/22 11:00	03/26/22 16:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/25/22 11:00	03/26/22 16:09	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/25/22 11:00	03/26/22 16:09	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/25/22 11:00	03/26/22 16:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			03/25/22 11:00	03/26/22 16:09	1
1,4-Difluorobenzene (Surr)	110		70 - 130			03/25/22 11:00	03/26/22 16:09	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 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	93.6		49.7	mg/Kg			03/28/22 10:07	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	<49.7	U	49.7	mg/Kg		03/25/22 10:30	03/25/22 14:18	1
Diesel Range Organics (Over C10-C28)	93.6		49.7	mg/Kg		03/25/22 10:30	03/25/22 14:18	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		03/25/22 10:30	03/25/22 14:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			03/25/22 10:30	03/25/22 14:18	1
o-Terphenyl	102		70 - 130			03/25/22 10:30	03/25/22 14:18	1

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-2135-1 Project/Site: Macho Nacho 2H Battery SDG: 31403720.000 t5ask 26.02

Client Sample ID: FS06

Date Collected: 03/23/22 11:50 Date Received: 03/24/22 09:23

Sample Depth: 1

Lab Sample ID: 890-2135-4

Matrix: Solid

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	6.62	4.99	mg/Kg			04/07/22 13:59	1		

Client Sample ID: FS09 Lab Sample ID: 890-2135-5

Date Collected: 03/23/22 11:56

Date Received: 03/24/22 09:23

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/25/22 11:00	03/26/22 16:29	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/25/22 11:00	03/26/22 16:29	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/25/22 11:00	03/26/22 16:29	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		03/25/22 11:00	03/26/22 16:29	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/25/22 11:00	03/26/22 16:29	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		03/25/22 11:00	03/26/22 16:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			03/25/22 11:00	03/26/22 16:29	1
1,4-Difluorobenzene (Surr)	100		70 - 130			03/25/22 11:00	03/26/22 16:29	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
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			03/28/22 10:07	1
Method: 8015B NM - Diesel Rang	je 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		03/25/22 10:30	03/25/22 14:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/25/22 10:30	03/25/22 14:39	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/25/22 10:30	03/25/22 14:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			03/25/22 10:30	03/25/22 14:39	1
o-Terphenyl	119		70 - 130			03/25/22 10:30	03/25/22 14:39	1
Method: 300.0 - Anions, Ion Chro	0							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	< 5.04	11	5.04	mg/Kg			04/07/22 14:05	1

Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-2135-1

Project/Site: Macho Nacho 2H Battery

SDG: 31403720.000 t5ask 26.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-2135-1	FS01	124	105
890-2135-2	FS04	112	112
890-2135-3	FS05	113	106
890-2135-4	FS06	108	110
890-2135-5	FS09	107	100

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

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2135-1	FS01	89	102	
890-2135-1 MS	FS01	84	86	
890-2135-1 MSD	FS01	87	93	
890-2135-2	FS04	92	103	
890-2135-3	FS05	89	97	
890-2135-4	FS06	92	102	
890-2135-5	FS09	105	119	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-22336/2-A	Lab Control Sample	100	119	
LCSD 880-22336/3-A	Lab Control Sample Dup	98	117	
MB 880-22336/1-A	Method Blank	93	113	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

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4/0/000

Job ID: 890-2135-1

SDG: 31403720.000 t5ask 26.02

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

Lab Sample ID: MB 880-22336/1-A

Lab Sample ID: LCS 880-22336/2-A

Matrix: Solid

Analysis Batch: 22329

Project/Site: Macho Nacho 2H Battery

Matrix: Solid

Client: WSP USA Inc.

Analysis Batch: 22329

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22336

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/25/22 10:30	03/25/22 11:33	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/25/22 10:30	03/25/22 11:33	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/25/22 10:30	03/25/22 11:33	1
	5	*						
	MB	МВ						
Surrogato	%Recovery	Qualifier	l imite			Prenared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	03/25/22 10:30	03/25/22 11:33	1
o-Terphenyl	113		70 - 130	03/25/22 10:30	03/25/22 11:33	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22336

LCS LCS Spike %Rec Added Result Qualifier Analyte Unit D %Rec Limits 1020 Gasoline Range Organics 1000 mg/Kg 102 70 - 130 (GRO)-C6-C10 1000 862.6 Diesel Range Organics (Over mg/Kg 86 70 - 130C10-C28)

LCS LCS

MD MD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	100	70 - 130
o-Terphenyl	119	70 - 130

Lab Sample ID: LCSD 880-22336/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 22329

Prep Type: Total/NA

Prep Batch: 22336

Spike LCSD LCSD RPD %Rec Added Limit Analyte Result Qualifier %Rec Limits RPD Unit Gasoline Range Organics 1000 1037 mg/Kg 104 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 892.3 mg/Kg 89 70 - 130 3 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery 0	Qualifier	Limits
1-Chlorooctane	98	_	70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: 890-2135-1 MS

Matrix: Solid

Analysis Batch: 22329

Prep Type: Total/NA Prep Batch: 22336

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.8	U	998	819.4		mg/Kg		82	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.8	U	998	744.8		mg/Kg		70	70 - 130	
C10-C28)										

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Client Sample ID: FS01

Project/Site: Macho Nacho 2H Battery

Job ID: 890-2135-1

SDG: 31403720.000 t5ask 26.02

Client Sample ID: FS01

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

Lab Sample ID: 890-2135-1 MS **Matrix: Solid**

Analysis Batch: 22329

Client: WSP USA Inc.

Prep Type: Total/NA Prep Batch: 22336 1/10 1/10

	IVIS IVIS	
Surrogate	%Recovery Qualified	r Limits
1-Chlorooctane	84	70 - 130
o-Terphenyl	86	70 - 130

Lab Sample ID: 890-2135-1 MSD **Client Sample ID: FS01**

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 22329 Prep Batch: 22336

	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	845.1		mg/Kg		85	70 - 130	3	20
Diesel Range Organics (Over	<49.8	U	999	800.3		mg/Kg		76	70 - 130	7	20
C10-C28)											
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	87		70 _ 130								
o-Terphenyl	93		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22993/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23129

мв мв Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 04/07/22 13:12

Lab Sample ID: LCS 880-22993/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23129

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits Chloride 250 253.6 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-22993/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23129

Spike LCSD LCSD %Rec RPD Result Qualifier Added Analyte Unit D %Rec Limits RPD Limit Chloride 250 254.1 mg/Kg 102 90 - 110 20

Lab Sample ID: 890-2135-1 MS **Client Sample ID: FS01 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23129

Spike Sample Sample MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 59.6 248 300.1 90 - 110 mg/Kg

QC Sample Results

Job ID: 890-2135-1 Client: WSP USA Inc. Project/Site: Macho Nacho 2H Battery SDG: 31403720.000 t5ask 26.02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2135-1 MSD **Client Sample ID: FS01 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23129

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	59.6		248	310.6		mg/Kg		101	90 - 110	3	20

QC Association Summary

Client: WSP USA Inc.

Job ID: 890-2135-1

Project/Site: Macho Nacho 2H Battery

SDG: 31403720.000 t5ask 26.02

GC VOA

Prep Batch: 22245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2135-1	FS01	Total/NA	Solid	5035	
890-2135-2	FS04	Total/NA	Solid	5035	
890-2135-3	FS05	Total/NA	Solid	5035	
890-2135-4	FS06	Total/NA	Solid	5035	
890-2135-5	FS09	Total/NA	Solid	5035	

Analysis Batch: 22323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2135-1	FS01	Total/NA	Solid	8021B	22245
890-2135-2	FS04	Total/NA	Solid	8021B	22245
890-2135-3	FS05	Total/NA	Solid	8021B	22245
890-2135-4	FS06	Total/NA	Solid	8021B	22245
890-2135-5	FS09	Total/NA	Solid	8021B	22245

Analysis Batch: 22489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2135-1	FS01	Total/NA	Solid	Total BTEX	- <u> </u>
890-2135-2	FS04	Total/NA	Solid	Total BTEX	
890-2135-3	FS05	Total/NA	Solid	Total BTEX	
890-2135-4	FS06	Total/NA	Solid	Total BTEX	
890-2135-5	FS09	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2135-1	FS01	Total/NA	Solid	8015B NM	22336
890-2135-2	FS04	Total/NA	Solid	8015B NM	22336
890-2135-3	FS05	Total/NA	Solid	8015B NM	22336
890-2135-4	FS06	Total/NA	Solid	8015B NM	22336
890-2135-5	FS09	Total/NA	Solid	8015B NM	22336
MB 880-22336/1-A	Method Blank	Total/NA	Solid	8015B NM	22336
LCS 880-22336/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22336
LCSD 880-22336/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22336
890-2135-1 MS	FS01	Total/NA	Solid	8015B NM	22336
890-2135-1 MSD	FS01	Total/NA	Solid	8015B NM	22336

Prep Batch: 22336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2135-1	FS01	Total/NA	Solid	8015NM Prep	
890-2135-2	FS04	Total/NA	Solid	8015NM Prep	
890-2135-3	FS05	Total/NA	Solid	8015NM Prep	
890-2135-4	FS06	Total/NA	Solid	8015NM Prep	
890-2135-5	FS09	Total/NA	Solid	8015NM Prep	
MB 880-22336/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22336/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22336/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2135-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-2135-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-2135-1 Project/Site: Macho Nacho 2H Battery

SDG: 31403720.000 t5ask 26.02

GC Semi VOA

Analysis Batch: 22457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2135-1	FS01	Total/NA	Solid	8015 NM	
890-2135-2	FS04	Total/NA	Solid	8015 NM	
890-2135-3	FS05	Total/NA	Solid	8015 NM	
890-2135-4	FS06	Total/NA	Solid	8015 NM	
890-2135-5	FS09	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2135-1	FS01	Soluble	Solid	DI Leach	
890-2135-2	FS04	Soluble	Solid	DI Leach	
890-2135-3	FS05	Soluble	Solid	DI Leach	
890-2135-4	FS06	Soluble	Solid	DI Leach	
890-2135-5	FS09	Soluble	Solid	DI Leach	
MB 880-22993/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22993/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22993/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2135-1 MS	FS01	Soluble	Solid	DI Leach	
890-2135-1 MSD	FS01	Soluble	Solid	DI Leach	

Analysis Batch: 23129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2135-1	FS01	Soluble	Solid	300.0	22993
890-2135-2	FS04	Soluble	Solid	300.0	22993
890-2135-3	FS05	Soluble	Solid	300.0	22993
890-2135-4	FS06	Soluble	Solid	300.0	22993
890-2135-5	FS09	Soluble	Solid	300.0	22993
MB 880-22993/1-A	Method Blank	Soluble	Solid	300.0	22993
LCS 880-22993/2-A	Lab Control Sample	Soluble	Solid	300.0	22993
LCSD 880-22993/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22993
890-2135-1 MS	FS01	Soluble	Solid	300.0	22993
890-2135-1 MSD	FS01	Soluble	Solid	300.0	22993

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Released to Imaging: 7/6/2022 3:19:30 PM

Client: WSP USA Inc.

Job ID: 890-2135-1 Project/Site: Macho Nacho 2H Battery SDG: 31403720.000 t5ask 26.02

Client Sample ID: FS01

Date Collected: 03/23/22 11:40 Date Received: 03/24/22 09:23 Lab Sample ID: 890-2135-1

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			4.95 g	5 mL	22245	03/25/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22323	03/26/22 15:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22489	03/28/22 12:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22457	03/28/22 10:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	22336	03/25/22 10:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22329	03/25/22 12:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	22993	04/05/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		1			23129	04/07/22 13:29	CH	XEN MID

Client Sample ID: FS04 Lab Sample ID: 890-2135-2 Matrix: Solid

Date Collected: 03/23/22 11:46 Date Received: 03/24/22 09:23

	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	22245	03/25/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22323	03/26/22 15:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22489	03/28/22 12:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22457	03/28/22 10:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22336	03/25/22 10:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22329	03/25/22 13:37	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22993	04/05/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		1			23129	04/07/22 13:47	CH	XEN MID

Client Sample ID: FS05 Lab Sample ID: 890-2135-3

Date Collected: 03/23/22 11:48 Date Received: 03/24/22 09:23

	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 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22323	03/26/22 15:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22489	03/28/22 12:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22457	03/28/22 10:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	22336	03/25/22 10:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22329	03/25/22 13:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22993	04/05/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		1			23129	04/07/22 13:53	CH	XEN MID

Client Sample ID: FS06 Lab Sample ID: 890-2135-4

Date Collected: 03/23/22 11:50 Date Received: 03/24/22 09:23

Г										
	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 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22323	03/26/22 16:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22489	03/28/22 12:44	AJ	XEN MID

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Matrix: Solid

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Matrix: Solid

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-2135-1

Project/Site: Macho Nacho 2H Battery SDG: 31403720.000 t5ask 26.02

Client Sample ID: FS06 Lab Sample ID: 890-2135-4 Date Collected: 03/23/22 11:50 Matrix: Solid

Date Received: 03/24/22 09:23

	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			22457	03/28/22 10:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	22336	03/25/22 10:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22329	03/25/22 14:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22993	04/05/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		1			23129	04/07/22 13:59	CH	XEN MID

Client Sample ID: FS09 Lab Sample ID: 890-2135-5

Date Collected: 03/23/22 11:56 **Matrix: Solid**

Date Received: 03/24/22 09:23

	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 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22323	03/26/22 16:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22489	03/28/22 12:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22457	03/28/22 10:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22336	03/25/22 10:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22329	03/25/22 14:39	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	22993	04/05/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		1			23129	04/07/22 14:05	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.

Job ID: 890-2135-1

Project/Site: Macho Nacho 2H Battery

SDG: 31403720.000 t5ask 26.02

Laboratory: Eurofins Midland

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

Authority	Pro	ogram	Identification Number	Expiration Date
Texas	NE	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	ed by the governing additionty. This list the	ay include analytes for t
,		Matrix	Analyte	ay include analytes for v
the agency does not of	fer certification.	•	, , ,	

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Method Summary

Client: WSP USA Inc.

Project/Site: Macho Nacho 2H Battery

Job ID: 890-2135-1

SDG: 31403720.000 t5ask 26.02

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

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Sample Summary

Matrix

Solid

Solid

Solid

Solid

Solid

Client: WSP USA Inc.

Lab Sample ID

890-2135-1

890-2135-2

890-2135-3

890-2135-4

890-2135-5

FS01

FS04

FS05

FS06

FS09

Client Sample ID

Job ID: 890-2135-1 Project/Site: Macho Nacho 2H Battery SDG: 31403720.000 t5ask 26.02

Collected

03/23/22 11:40

03/23/22 11:46 03/23/22 11:48

03/23/22 11:50

03/23/22 11:56

03/24/22 09:23

03/24/22 09:23 1

Received	Depth	
03/24/22 09:23	1	
03/24/22 09:23	1	
03/24/22 09:23	1	

Project Manager: A BORATORIES Kalei Jennings

Company Name:

WSP USA

Company Name: Bill to: (if different)

WSP USA Kalei Jennings

Program: UST/PST State of Project:

☐RP ☐rownfields ☐RC **Work Order Comments**

€perfund

Chain of Custody

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

Revised Date 051418 Rev. 2018 1		6							On United
		4							3 /
		an n903	3-24-20	W	D	MY JAM	1	my 29	7
Date/Time	ture) Received by: (Signature)	Time Relinquished by: (Signature	Date/Time	9)	Received by: (Signature)	Received b	ture)	Relinquished by: (Signature)	Relin
	It assigns standard terms and conditions e due to circumstances bayond the control storced unless previously negotiated.	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	ent company t sses or expen nitted to Xeno	ase order from clionsibility for any locations ample sub-	tes a valid purch sume any respo charge of \$5 for	samples constitu s and shall not as ach project and a	and relinquishment of for the cost of sample .00 will be applied to c	gnature of this document . Xenco will be liable only A minimum charge of \$7	Notice: Si of service of Xenco.
1631 / 245.1 / 7470 / 7471 : Hg		Ba Be Cd Cr Co Cu Pb Mn M	RA Sb As	TCLP / SPLP 6010: BRCRA	CLP / SPLF		Metal(s) to be ar	l ag	Q
SIO2 Na Sr TI Sn U V Zn	Pb Mg Mn Mo Ni K Se Ag SiO2 Na S	Ba Be B Cd Ca Cr Co Cu Fe	Al Sb As	M Texas 11	8RCRA 13PPM	8R	200.8 / 6020:	Total 200.7 / 6010	Tot
CONTRACTOR		>	>	-	11:56	03/23/22	σ	F009	
COMPOSITE		+	+		11:50	03/23/22) (V)	FS06	
COMPOSITE		+	+	. _	11:48	03/23/22	S	FS05	
COMPOSITE		╀	×	-	11:46	03/23/22	S	FS04	
COMPOSITE		+	+		11:40	03/23/22	· · ·	FS01	
COMPOSITE		+	+	•		20/00/00)		
Sample Comments		BTEX (E	Numbe	Depth	Time Sampled	Date Sampled	n Matrix	Sample Identification	
lab, if received by 4:30pm		_			Total Containers:	Total	Yes No NA)	Sample Custody Seals:	Sample
TAT starts the day recevied by the	Cap-7122 Citalit of Castoo)	PA 3	4	0.2	Correction Factor: -	Correc	Yes No NA	Cooler Custody Seals:	Cooler (
		00.0	ntai		EDO-NAM	JW.	(Yes) No	Received Intact:	Receive
)	ners		Thermometer ID	Ŧ	5.4/3.3	Temperature (°C):	Temper
				Yes No	Wet Ice: v	(Yes) No	Temp Blank:	SAMPLE RECEIPT	SAM
				ate:	Due Date:		Benner	Sampler's Name: Payton Benner	Sample
					Rush:			ımber:	P.O. Number:
				*	Routine	ask 26.02	31403720.000 Task 26.02	Project Number:	Project
Work Order Notes	JEST	ANALYSIS REQUEST		Turn Around	Turi	У	Macho Nacho 2H Battery		Project Name:
Other:	Deliverables: EDD ADaPI		@wsp.com	Kalei.jennings@wsp.com	Email: h		3-2503	817-683-2503	Phone:
	evel	Midland, Texas 79705	Midlan	City, State ZIP:			Midland, Texas 79705		City, State ZIP
]	3300 North A Street Building 1, unit 222	3300 N	Address:		ding 1, unit 2	3300 North A Street Building 1, unit 222		Address:

Work Order No:

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hone 575-988-3199 Fax: 575-988-3199

Carlsbad, NM 88220

Euroiins Carispad 1089 N Canal St.

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Chain of Custody Record

eurofins 💸

Environment Testing

State, Zip: TX, 79701 Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central. LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central. LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central. LLC. FS04 (890-2135-2) FS06 (890-2135-4) FS01 (890-2135-1) Sample Identification - Client ID (Lab ID) Possible Hazard Identification ⁻S09 (890-2135-5) ⁻S05 (890-2135-3) ^oroject Name: Macho Nacho 2H Battery 432-704-5440(Tel) mpty Kit Relinquished by elinquished by beliverable Requested | II | III | IV, Other (specify) **hidland** 211 W Florida Ave Client Information elinquished by: elinquished by: hipping/Receiving Custody Seals Intact: nconfirmed rofins Environment Testing South Centr řes ö É (Sub Contract Lab) Custody Seal No 2 9 Primary Deliverable Rank **₩** Due Date Requested 3/30/2022 Phone SOW#: 39000048 roject #: FAT Requested (days) Sample Date 3/23/22 3/23/22 3/23/22 3/23/22 3/23/22 Date Mountain 11 56 Mountain 11 50 Mountain 11 48 Mountain 11 46 Mountair Sample Time 11 40 G=grab) (C=comp, Sample Type Preservation Code: Compan) Company Matrix Solid Solid Solid Solid Solid E-Mail Kramer, Jessica essica kramer@eurofinset.com lime Accreditations Required (See note):
NELAP - Louisiana; NELAP - Texas Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Special Instructions/QC Requirements Perform MS/MSD (Yes or No) Cooler Temperature(s) °C and Other Remarks. Received by × × × × × 8016MOD_NM/8016NM_S_Prep Full TPH × × × × × 300_ORGFM_28D/DI_LEACH Chloride × × × × × 8021B/5035FP_Calc BTEX × × × × × Total_BTEX_GCV Analysis Requested × × × × 8015MOD_Calc State of Origin: New Mexico Carrier Tracking No(s) Method of Shipment: Date/Time: Date/Time Date/Time _ Total Number of containers A HCL
B - NaDH
C Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDDA Page 1 of 1 COC No: 890-686.1 Preservation Codes 890-2135-1 Special Instructions/Note: M - Hexane
N None
O - AsNaO2
P NaZO4S
Q - NaZSO3
R NaZSCO3
S - HZSO4
T TSP Dodecahydrate
U - Acetone
V - MCAA
W pH 4-5
Z other (specify) Company Company Company Months

/er: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-2135-1

SDG Number: 31403720.000 t5ask 26.02

List Source: Eurofins Carlsbad Login Number: 2135

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-2135-1

SDG Number: 31403720.000 t5ask 26.02

List Source: Eurofins Midland List Creation: 03/25/22 10:25 AM

Login Number: 2135 List Number: 2

Creator: Rodriguez, Leticia

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

N/A

<6mm (1/4").

Containers requiring zero headspace have no headspace or bubble is



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2136-1

Laboratory Sample Delivery Group: 31403720.000 task 26.02

Client Project/Site: Macho Nacho 2H Battery

For:

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

Attn: Kalei Jennings

MAMER

Authorized for release by: 4/8/2022 10:07:38 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

results through

Review your project

Have a Question?



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Released to Imaging: 7/6/2022 3:19:30 PM

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

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

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Client: WSP USA Inc. Project/Site: Macho Nacho 2H Battery Laboratory Job ID: 890-2136-1 SDG: 31403720.000 task 26.02

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-2136-1 Project/Site: Macho Nacho 2H Battery

SDG: 31403720.000 task 26.02

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**

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

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)

Method Detection Limit MDL 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)

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: Macho Nacho 2H Battery

Job ID: 890-2136-1

SDG: 31403720.000 task 26.02

Job ID: 890-2136-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2136-1

Comments

No additional comments.

Receipt

The samples were received on 3/24/2022 9:23 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2° C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-22266 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.

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 analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

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

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

VOA Prep

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

Eurofins Carlsbad 4/8/2022

Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2136-1

Project/Site: Macho Nacho 2H Battery SDG: 31403720.000 task 26.02

Client Sample ID: FS02 Lab Sample ID: 890-2136-1 Date Collected: 03/23/22 11:42

Date Received: 03/24/22 09:23 Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/25/22 11:00	03/25/22 15:31	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/25/22 11:00	03/25/22 15:31	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/25/22 11:00	03/25/22 15:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/25/22 11:00	03/25/22 15:31	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/25/22 11:00	03/25/22 15:31	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/25/22 11:00	03/25/22 15:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			03/25/22 11:00	03/25/22 15:31	1
1,4-Difluorobenzene (Surr)	111		70 - 130			03/25/22 11:00	03/25/22 15:31	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte		O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	91.3	Quaimer	49.9			Prepared	Analyzed	DII Fac
			10.0	mg/Kg			03/28/22 10:07	1
	• •				_			
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	• •	Qualifier			<u>D</u>	Prepared 03/25/22 10:30		Dil Fac
Analyte Gasoline Range Organics	Result	Qualifier	RL	Unit	<u>D</u>	<u>·</u>	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U	RL 49.9	Unit mg/Kg	<u> </u>	03/25/22 10:30	Analyzed 03/25/22 15:00	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U	RL 49.9	Unit mg/Kg mg/Kg	<u>D</u>	03/25/22 10:30	Analyzed 03/25/22 15:00 03/25/22 15:00	
C10-C28)	Result <49.9 91.3 <49.9	Qualifier U	RL 49.9 49.9 49.9	Unit mg/Kg mg/Kg	<u>D</u>	03/25/22 10:30 03/25/22 10:30 03/25/22 10:30	Analyzed 03/25/22 15:00 03/25/22 15:00 03/25/22 15:00	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	RL 49.9 49.9 49.9 <i>Limits</i>	Unit mg/Kg mg/Kg	<u>D</u>	03/25/22 10:30 03/25/22 10:30 03/25/22 10:30 Prepared	Analyzed 03/25/22 15:00 03/25/22 15:00 03/25/22 15:00 Analyzed	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 Qualifier Soluble	RL 49.9 49.9 49.9 Limits 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	03/25/22 10:30 03/25/22 10:30 03/25/22 10:30 Prepared 03/25/22 10:30	Analyzed 03/25/22 15:00 03/25/22 15:00 03/25/22 15:00 Analyzed 03/25/22 15:00	1 Dil Fac 1 1 1 Dil Fac 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	03/25/22 10:30 03/25/22 10:30 03/25/22 10:30 Prepared 03/25/22 10:30	Analyzed 03/25/22 15:00 03/25/22 15:00 03/25/22 15:00 Analyzed 03/25/22 15:00	Dil Fac

Client Sample ID: FS03 Lab Sample ID: 890-2136-2 Matrix: Solid

Date Collected: 03/23/22 11:44 Date Received: 03/24/22 09:23

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/25/22 11:00	03/25/22 15:51	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/25/22 11:00	03/25/22 15:51	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/25/22 11:00	03/25/22 15:51	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/25/22 11:00	03/25/22 15:51	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/25/22 11:00	03/25/22 15:51	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		03/25/22 11:00	03/25/22 15:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			03/25/22 11:00	03/25/22 15:51	1

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-2136-1

Project/Site: Macho Nacho 2H Battery

SDG: 31403720.000 task 26.02

Client Sample ID: FS03

Date Collected: 03/23/22 11:44

Lab Sample ID: 890-2136-2

Matrix: Solid

Date Collected: 03/23/22 11:44

Date Received: 03/24/22 09:23

Matrix: Solid

Sample Depth: 1

Method: 8021B - Volatile Organic Compound	s (GC) (Continued)
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	110		70 - 130	03/25/22 11:00	03/25/22 15:51	1

Method:	Total	RTFX	- Total	RTFX	Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396 U	0.00396	ma/Ka			03/25/22 16:10	1

Mothod: 8015 NM - Diosal Range	Organics (DRO) (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	109	50.0	ma/Ka			03/28/22 10:07	1

ALC: LOCATE NA	D: 1 D	•	(DDO) (
Method: 8015B NM	- Diesel Range	Organics	(DKO) (GC)

		/ (/						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/25/22 10:30	03/25/22 15:20	1
Diesel Range Organics (Over C10-C28)	109		50.0	mg/Kg		03/25/22 10:30	03/25/22 15:20	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/25/22 10:30	03/25/22 15:20	1
Currogata	% Pocovory	Qualifier	Limite			Drongrad	Analyzod	Dil Esc

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94	70 - 130	03/25/22 10:30	03/25/22 15:20	1
o-Terphenyl	107	70 - 130	03/25/22 10:30	03/25/22 15:20	1

Method: 300.0 - Anions, Ion C	hromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.2	4.95	mg/Kg			04/07/22 14:29	1

Client Sample ID: FS07

Date Collected: 03/23/22 11:52

Lab Sample ID: 890-2136-3

Matrix: Solid

Date Collected: 03/23/22 11:52 Date Received: 03/24/22 09:23

Sample Depth: 1

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

mounda. our ib volutile orga	ino compoundo ((33)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 11:00	03/25/22 16:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 11:00	03/25/22 16:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 11:00	03/25/22 16:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/25/22 11:00	03/25/22 16:12	1
o-Xylene	0.0381		0.00200	mg/Kg		03/25/22 11:00	03/25/22 16:12	1
Xylenes, Total	0.0381		0.00400	mg/Kg		03/25/22 11:00	03/25/22 16:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			03/25/22 11:00	03/25/22 16:12	1
1,4-Difluorobenzene (Surr)	99		70 - 130			03/25/22 11:00	03/25/22 16:12	1

ı						
ı	Mothod	Total	DTEV	Total	DTEV	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0381		0.00400	mg/Kg			03/25/22 16:10	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC	Method: 8015 NM -	- Diesel Range	Organics (DRO)	(GC
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Analyte	•	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH		<50.0	U	50.0	mg/Kg			03/28/22 10:07	1

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Matrix: Solid

Lab Sample ID: 890-2136-3

04/07/22 16:43

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2136-1

Project/Site: Macho Nacho 2H Battery SDG: 31403720.000 task 26.02

Client Sample ID: FS07 Date Collected: 03/23/22 11:52 Date Received: 03/24/22 09:23

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/25/22 10:30	03/25/22 15:42	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/25/22 10:30	03/25/22 15:42	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/25/22 10:30	03/25/22 15:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			03/25/22 10:30	03/25/22 15:42	1
o-Terphenyl	107		70 - 130			03/25/22 10:30	03/25/22 15:42	1
- Mathada 200 O Aniona Jan Chur		Oalubla						
Method: 300.0 - Anions, Ion Chro	omatograpny -	Soluble						
Analyte	Docult	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS08 Lab Sample ID: 890-2136-4 Date Collected: 03/23/22 11:54 **Matrix: Solid**

5.00

mg/Kg

7.88

Date Received: 03/24/22 09:23

Sample Depth: 1

Chloride

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 21:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 21:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 21:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/25/22 14:00	03/27/22 21:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 21:18	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/25/22 14:00	03/27/22 21:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			03/25/22 14:00	03/27/22 21:18	1
1,4-Difluorobenzene (Surr)	111		70 - 130			03/25/22 14:00	03/27/22 21:18	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/25/22 16:10	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	71.9		50.0	mg/Kg			03/28/22 10:07	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		03/25/22 10:30	03/25/22 16:02	1
Diesel Range Organics (Over C10-C28)	71.9		50.0	mg/Kg		03/25/22 10:30	03/25/22 16:02	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/25/22 10:30	03/25/22 16:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			03/25/22 10:30	03/25/22 16:02	1
o-Terphenyl	97		70 - 130			03/25/22 10:30	03/25/22 16:02	1

Client Sample Results

Job ID: 890-2136-1 Client: WSP USA Inc. Project/Site: Macho Nacho 2H Battery SDG: 31403720.000 task 26.02

Client Sample ID: FS08 Lab Sample ID: 890-2136-4 Matrix: Solid

Date Collected: 03/23/22 11:54 Date Received: 03/24/22 09:23

Sample Depth: 1

Method: 300.0 - Anions, Ion Chrom	natography - S	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.51		4.99	mg/Kg			04/07/22 16:49	1

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-2136-1 Project/Site: Macho Nacho 2H Battery SDG: 31403720.000 task 26.02

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)	
890-2122-A-1-E MS	Matrix Spike	108	104	
890-2122-A-1-F MSD	Matrix Spike Duplicate	107	111	
890-2130-A-1-C MS	Matrix Spike	103	96	
890-2130-A-1-D MSD	Matrix Spike Duplicate	103	102	
890-2136-1	FS02	108	111	
890-2136-2	FS03	108	110	
890-2136-3	FS07	112	99	
890-2136-4	FS08	109	111	
LCS 880-22243/1-A	Lab Control Sample	103	112	
LCS 880-22266/1-A	Lab Control Sample	103	111	
LCSD 880-22243/2-A	Lab Control Sample Dup	103	113	
LCSD 880-22266/2-A	Lab Control Sample Dup	105	112	
MB 880-22243/5-A	Method Blank	100	102	
MB 880-22266/5-A	Method Blank	100	104	
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

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2135-A-1-E MS	Matrix Spike	84	86	
890-2135-A-1-F MSD	Matrix Spike Duplicate	87	93	
890-2136-1	FS02	94	104	
890-2136-2	FS03	94	107	
890-2136-3	FS07	95	107	
890-2136-4	FS08	88	97	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO2	OTPH2	Totalit duringula Nadavary (Nadaphanaa Emilia)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-22336/2-A	Lab Control Sample	100	119	
LCSD 880-22336/3-A	Lab Control Sample Dup	98	117	
MB 880-22336/1-A	Method Blank	93	113	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

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Prep Type: Total/NA

Client: WSP USA Inc. Job ID: 890-2136-1 SDG: 31403720.000 task 26.02 Project/Site: Macho Nacho 2H Battery

Method: 8021B - Volatile Organic Compounds (GC)

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

Analysis Batch: 22424

Matrix: Solid

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

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

Matrix: Solid

Analysis Batch: 22424

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 22243

Spike LCS LCS 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 107 Ethylbenzene mg/Kg 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

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

Matrix: Solid

Analysis Batch: 22424

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 22243

	Spike	LCSD LC	CSD			%Rec		RPD
Analyte	Added	Result Q	ualifier Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1245	mg/l	(g	124	70 - 130	11	35
Toluene	0.100	0.1183	mg/l	(g	118	70 - 130	9	35
Ethylbenzene	0.100	0.1133	mg/l	(g	113	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2347	mg/l	(g	117	70 - 130	5	35
o-Xylene	0.100	0.1165	mg/l	(g	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: 890-2136-1 Project/Site: Macho Nacho 2H Battery SDG: 31403720.000 task 26.02

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

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

Lab Sample ID: 890-2130-A-1-D MSD

Matrix: Solid

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 UF1 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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 22243

RPD

Analysis Batch: 22424 Sample Sample Spike MSD MSD 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 0.100 <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 o-Xylene <0.00198 U F1 0.02815 F1 28 70 - 130 mg/Kg 3

MSD MSD

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

Lab Sample ID: MB 880-22266/5-A

Matrix: Solid

Analysis Batch: 22323

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22266

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 07:30	03/25/22 10:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 07:30	03/25/22 10:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 07:30	03/25/22 10:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/25/22 07:30	03/25/22 10:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 07:30	03/25/22 10:42	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		03/25/22 07:30	03/25/22 10:42	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/25/22 07:30	03/25/22 10:42	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/25/22 07:30	03/25/22 10:42	1

Lab Sample ID: LCS 880-22266/1-A

Matrix: Solid

Analysis Batch: 22323

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

Prep Batch: 22266

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.08853		mg/Kg		89	70 - 130
Toluene	0.100	0.08731		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.09324		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1909		mg/Kg		95	70 - 130

Client: WSP USA Inc. Job ID: 890-2136-1 Project/Site: Macho Nacho 2H Battery SDG: 31403720.000 task 26.02

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

Lab Sample ID: LCS 880-22266/1-A **Client Sample ID: Lab Control Sample Matrix: Solid**

Prep Type: Total/NA **Analysis Batch: 22323** Prep Batch: 22266 LCS LCS

Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits D 0.100 0.09386 70 - 130 o-Xylene mg/Kg

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 103 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 111

Lab Sample ID: LCSD 880-22266/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 22323** Prep Batch: 22266

Spike LCSD LCSD RPD Limit Analyte Added Result Qualifier Unit D %Rec Limits RPD Benzene 0.100 0.08920 mg/Kg 89 70 - 130 35 Toluene 0.100 0.08871 mg/Kg 89 70 - 130 35 2 Ethylbenzene 0.100 0.09388 mg/Kg 94 70 - 130 35 35 m-Xylene & p-Xylene 0.200 0.1927 mg/Kg 96 70 - 130 0.100 0.09509 95 70 - 130 35 o-Xylene mg/Kg

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 105 70 - 130 1,4-Difluorobenzene (Surr) 112 70 - 130

Lab Sample ID: 890-2122-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 22323

MS MS Sample Sample Spike %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits Benzene <0.00200 UF1 0.0996 0.06367 F1 mg/Kg 64 70 - 130 Toluene < 0.00200 U F1 0.0996 0.07260 mg/Kg 71 70 - 130 Ethylbenzene <0.00200 U 0.0996 0.07681 mg/Kg 76 70 - 130 m-Xylene & p-Xylene < 0.00401 U 0.199 0.1597 mg/Kg 79 70 - 130 o-Xylene <0.00200 U 0.0996 0.08081 mg/Kg 80 70 - 130

MS MS %Recovery Surrogate Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 108 70 - 130 1,4-Difluorobenzene (Surr) 104

Lab Sample ID: 890-2122-A-1-F MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 22323 Prep Batch: 22266

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1	0.0992	0.07252		mg/Kg		73	70 - 130	13	35
Toluene	<0.00200	U F1	0.0992	0.06862	F1	mg/Kg		68	70 - 130	6	35
Ethylbenzene	<0.00200	U	0.0992	0.07502		mg/Kg		75	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1562		mg/Kg		77	70 - 130	2	35
o-Xylene	<0.00200	U	0.0992	0.07864		mg/Kg		78	70 - 130	3	35

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Prep Batch: 22266

Client: WSP USA Inc.

Job ID: 890-2136-1

Project/Site: Macho Nacho 2H Battery

SDG: 31403720.000 task 26.02

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

Lab Sample ID: 890-2122-A-1-F MSD

Matrix: Solid

Analysis Batch: 22323

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 22266

MSD MSD

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 107
 70 - 130

 1,4-Difluorobenzene (Surr)
 111
 70 - 130

Lab Sample ID: MB 880-22286/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 22424

Prep Type: Total/NA

Prep Batch: 22286

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

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 880-22336/1-A

Matrix: Solid

Analysis Batch: 22329

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22336

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/25/22 10:30	03/25/22 11:33	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/25/22 10:30	03/25/22 11:33	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/25/22 10:30	03/25/22 11:33	1
	Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Analyte Result Gasoline Range Organics <50.0 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 C10-C28)	Analyte Result Qualifier Gasoline Range Organics <50.0 U (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U C10-C28)	Gasoline Range Organics	Analyte Result Qualifier RL Unit Gasoline Range Organics <50.0	Analyte Result Qualifier RL Unit D Gasoline Range Organics <50.0	Analyte Result Qualifier RL Unit D Prepared Gasoline Range Organics <50.0	Analyte Result Qualifier RL Unit D Prepared Analyzed Gasoline Range Organics <50.0

MB MB

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	03/25/22 10:30	03/25/22 11:33	1
o-Terphenyl	113		70 - 130	03/25/22 10:30	03/25/22 11:33	1

Lab Sample ID: LCS 880-22336/2-A

Released to Imaging: 7/6/2022 3:19:30 PM

Matrix: Solid

Analysis Batch: 22329

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22336

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1020		mg/Kg		102	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	862.6		mg/Kg		86	70 - 130	
C10-C28)								

C10-C28

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	119		70 - 130

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Job ID: 890-2136-1

Client: WSP USA Inc. Project/Site: Macho Nacho 2H Battery SDG: 31403720.000 task 26.02

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

Lab Sample ID: LCSD 880-22336/3-A

Matrix: Solid

Analysis Batch: 22329

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22336 RPD

Spike LCSD LCSD Added RPD Limit Analyte Result Qualifier Unit %Rec Limits D Gasoline Range Organics 1000 1037 mg/Kg 104 70 - 130 2 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 892.3 mg/Kg 89 70 - 130 3 20

C10-C28)

LCSD LCSD

<49.8 U

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: 890-2135-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Diesel Range Organics (Over

Analysis Batch: 22329									Prep	Batch: 22336
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.8	U	998	819.4		mg/Kg		82	70 - 130	
(GRO)-C6-C10										

744.8

mg/Kg

998

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 84 70 - 130 o-Terphenyl 86 70 - 130

Lab Sample ID: 890-2135-A-1-F MSD

Matrix: Solid

Analysis Batch: 22329

Client Sample	ID:	Matrix	Spike	Duplicate
---------------	-----	--------	--------------	------------------

70 - 130

70

Prep Type: Total/NA Prep Batch: 22336

Client Sample ID: Method Blank

Sample Sample Spike MSD MSD %Rec **RPD** Added Limit Analyte Result Qualifier Result Qualifier Unit %Rec Limits RPD <49.8 U 999 845.1 85 20 Gasoline Range Organics 70 - 130 3 mg/Kg (GRO)-C6-C10 <49.8 U 999 800.3 76 70 - 130 20 Diesel Range Organics (Over mg/Kg C10-C28)

	MSD MSD)
Surrogate	%Recovery Qua	lifier Limits
1-Chlorooctane	87	70 - 130
o-Terphenyl	93	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22993/1-A

Matrix: Solid

Analysis Batch: 23129

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/07/22 13:12	1

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Prep Type: Soluble

Client: WSP USA Inc. Job ID: 890-2136-1 Project/Site: Macho Nacho 2H Battery

SDG: 31403720.000 task 26.02

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-22993/2-A

Client Sample ID: Lab Control Sample

Analysis Batch: 23129

Matrix: Solid

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 253.6 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-22993/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23129

Spike LCSD LCSD %Rec RPD Added Result Qualifier RPD Limit Analyte Unit D %Rec Limits Chloride 250 254.1 mg/Kg 102 90 - 110 0

Lab Sample ID: 890-2135-A-1-I MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble

Analysis Batch: 23129

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit Limits

Chloride 59.6 248 300.1 90 - 110 mg/Kg

Lab Sample ID: 890-2135-A-1-J MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23129

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec RPD Limit Limits 310.6 Chloride 59.6 248 101 90 - 110 20 mg/Kg

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4/8/2022

QC Association Summary

Client: WSP USA Inc.

Job ID: 890-2136-1

Project/Site: Macho Nacho 2H Battery

SDG: 31403720.000 task 26.02

GC VOA

Prep Batch: 22243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2136-4	FS08	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: 22266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2136-1	FS02	Total/NA	Solid	5035	
890-2136-2	FS03	Total/NA	Solid	5035	
890-2136-3	FS07	Total/NA	Solid	5035	
MB 880-22266/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22266/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22266/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2122-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-2122-A-1-F 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: 22323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2136-1	FS02	Total/NA	Solid	8021B	22266
890-2136-2	FS03	Total/NA	Solid	8021B	22266
890-2136-3	FS07	Total/NA	Solid	8021B	22266
MB 880-22266/5-A	Method Blank	Total/NA	Solid	8021B	22266
LCS 880-22266/1-A	Lab Control Sample	Total/NA	Solid	8021B	22266
LCSD 880-22266/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22266
890-2122-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	22266
890-2122-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22266

Analysis Batch: 22406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2136-1	FS02	Total/NA	Solid	Total BTEX	
890-2136-2	FS03	Total/NA	Solid	Total BTEX	
890-2136-3	FS07	Total/NA	Solid	Total BTEX	
890-2136-4	FS08	Total/NA	Solid	Total BTEX	

Analysis Batch: 22424

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2136-4	FS08	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

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QC Association Summary

Client: WSP USA Inc.

Job ID: 890-2136-1

Project/Site: Macho Nacho 2H Battery

SDG: 31403720.000 task 26.02

GC Semi VOA

Analysis Batch: 22329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2136-1	FS02	Total/NA	Solid	8015B NM	22336
890-2136-2	FS03	Total/NA	Solid	8015B NM	22336
890-2136-3	FS07	Total/NA	Solid	8015B NM	22336
890-2136-4	FS08	Total/NA	Solid	8015B NM	22336
MB 880-22336/1-A	Method Blank	Total/NA	Solid	8015B NM	22336
LCS 880-22336/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22336
LCSD 880-22336/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22336
890-2135-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	22336
890-2135-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22336

Prep Batch: 22336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2136-1	FS02	Total/NA	Solid	8015NM Prep	
890-2136-2	FS03	Total/NA	Solid	8015NM Prep	
890-2136-3	FS07	Total/NA	Solid	8015NM Prep	
890-2136-4	FS08	Total/NA	Solid	8015NM Prep	
MB 880-22336/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22336/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22336/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2135-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2135-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Bate
890-2136-1	FS02	Total/NA	Solid	8015 NM
890-2136-2	FS03	Total/NA	Solid	8015 NM
890-2136-3	FS07	Total/NA	Solid	8015 NM
890-2136-4	FS08	Total/NA	Solid	8015 NM

HPLC/IC

Leach Batch: 22993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2136-1	FS02	Soluble	Solid	DI Leach	
890-2136-2	FS03	Soluble	Solid	DI Leach	
890-2136-3	FS07	Soluble	Solid	DI Leach	
890-2136-4	FS08	Soluble	Solid	DI Leach	
MB 880-22993/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22993/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22993/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2135-A-1-I MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2135-A-1-J MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 23129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2136-1	FS02	Soluble	Solid	300.0	22993
890-2136-2	FS03	Soluble	Solid	300.0	22993
890-2136-3	FS07	Soluble	Solid	300.0	22993
890-2136-4	FS08	Soluble	Solid	300.0	22993
MB 880-22993/1-A	Method Blank	Soluble	Solid	300.0	22993
LCS 880-22993/2-A	Lab Control Sample	Soluble	Solid	300.0	22993

QC Association Summary

Client: WSP USA Inc.

Job ID: 890-2136-1

Project/Site: Macho Nacho 2H Battery

SDG: 31403720.000 task 26.02

HPLC/IC (Continued)

Analysis Batch: 23129 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-22993/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22993
890-2135-A-1-I MS	Matrix Spike	Soluble	Solid	300.0	22993
890-2135-A-1-J MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	22993

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Project/Site: Macho Nacho 2H Battery

SDG: 31403720.000 task 26.02

Client Sample ID: FS02

Lab Sample ID: 890-2136-1

Matrix: Solid

Date Collected: 03/23/22 11:42 Date Received: 03/24/22 09:23

	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	22266	03/25/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22323	03/25/22 15:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22406	03/25/22 16:10	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22458	03/28/22 10:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22336	03/25/22 10:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22329	03/25/22 15:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22993	04/05/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		1			23129	04/07/22 14:22	CH	XEN MID

Client Sample ID: FS03 Lab Sample ID: 890-2136-2

Date Collected: 03/23/22 11:44 Matrix: Solid

Date Received: 03/24/22 09:23

	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	22266	03/25/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22323	03/25/22 15:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22406	03/25/22 16:10	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22458	03/28/22 10:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22336	03/25/22 10:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22329	03/25/22 15:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22993	04/05/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		1			23129	04/07/22 14:29	CH	XEN MID

Client Sample ID: FS07 Lab Sample ID: 890-2136-3

Date Collected: 03/23/22 11:52 Date Received: 03/24/22 09:23

	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	22266	03/25/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22323	03/25/22 16:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22406	03/25/22 16:10	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22458	03/28/22 10:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22336	03/25/22 10:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22329	03/25/22 15:42	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22993	04/05/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		1			23129	04/07/22 16:43	CH	XEN MID

Client Sample ID: FS08 Lab Sample ID: 890-2136-4

Date Collected: 03/23/22 11:54 Date Received: 03/24/22 09:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 21:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22406	03/25/22 16:10	AJ	XEN MID

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Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-2136-1 Project/Site: Macho Nacho 2H Battery SDG: 31403720.000 task 26.02

Client Sample ID: FS08 Lab Sample ID: 890-2136-4

Date Collected: 03/23/22 11:54 Matrix: Solid Date Received: 03/24/22 09:23

	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			22458	03/28/22 10:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22336	03/25/22 10:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22329	03/25/22 16:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22993	04/05/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		1			23129	04/07/22 16:49	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: 890-2136-1

Project/Site: Macho Nacho 2H Battery

SDG: 31403720.000 task 26.02

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	1	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	Total BTEX			

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Method Summary

Client: WSP USA Inc.

Project/Site: Macho Nacho 2H Battery

Job ID: 890-2136-1

SDG: 31403720.000 task 26.02

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
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
800.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
3015NM Prep	Microextraction	SW846	XEN MID
OI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

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

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: Macho Nacho 2H Battery

Job ID: 890-2136-1 SDG: 31403720.000 task 26.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2136-1	FS02	Solid	03/23/22 11:42	03/24/22 09:23	1
890-2136-2	FS03	Solid	03/23/22 11:44	03/24/22 09:23	1
890-2136-3	FS07	Solid	03/23/22 11:52	03/24/22 09:23	1
890-2136-4	FS08	Solid	03/23/22 11:54	03/24/22 09:23	1

Monday.	Relinguished by: (S	Notice: Signature of this doci of service. Xenco will be liab of Xenco. A minimum charge	Total 200.7 / 6010 Circle Method(s)			FS08	FS07	FS03	FS02	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name: Pa	P.O. Number:	Project Number:	Project Name: M	Phone: 8	City, State ZIP: M			Project Manager: K	LAB	X	
111	(Signature)	ument and relinquishment of the only for the cost of sample of \$75.00 will be applied to e	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed			S	S	S	S	ication Matrix	Yes No NIN		(Yas No	3.4/3.2	Temp Blank:	Payton Benner		31403720.000 Task 26.02	Macho Nacho 2H Battery	817-683-2503	Midland, Texas 79705	3300 North A Street Building 1, unit 222	WSP USA	Kalei Jennings	DRATORIES		
(M) (M)	Received by:	samples constitute s and shall not ass ach project and a c	8			03/23/22	03/23/22	03/23/22	03/23/22	Date Sampled	Total (Correct	7	The	(Yes) No			ask 26.02	γ			lding 1, unit 22			Hobbs,N		
6	(Signature)	s a valid purchas ume any respons harge of \$5 for e	RA 13PPM CLP/SPLP 6	-		11:54	11:52	11:44	11:42	Time Sampled	Total Containers:	Correction Factor:	N M OS	Thermometer ID	Wet Ice: Ye	Due Date	Rush:	Routine	Turn	Email: Ka	Ω		Cc	Bi	Midland,TX M (575-392-755	Houston,TX	
W		se order from clie sibility for any los ach sample subn	RCRA 13PPM Texas 11 AITCLP / SPLP 6010: 8RCRA			_	_	_	-	Depth		0.7			No	te:		N.	Turn Around	Email: Kalei.jennings@wsp.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	(432-704-5440) 0) Phoenix,AZ	(281) 240-4200	
3.24.	Date	nt company ses or expo nitted to Xe	န န		-	×	×	×		Number TPH (E				iner	B 		_			@wsp.cc	Midla	3300		Kale) EL Paso (480-355-0	Dallas,TX	Chai
ره رو	Date/Time	y to Xenco, enses incur nco, but no	As Ba E As Ba E			×	×	×	×	втех (EPA	0=8	021)							m	Midland, Texas 79705	North A	WSP USA	Kalei Jennings	,TX (915)5)900) Atlai	(214) 902	n or
D923	Relinquished by: (Sign	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75,00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn I As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag			×	×	×	X	Chlorid	le (El	PA 3	890))					ANALYSIS REC		s 79705	3300 North A Street Building 1, unit 222			Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Allanta,GA (770-449-8800) Tampa,FL (813-620-2000)	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334	Chain of Custody
	(Signature)	It assigns standard terms and conditions e due to circumstances beyond the contro forced unless previously negotiated.	Fe Pb Mg Mn Mo Ni K n Mo Ni Se Ag Tl U			-						-	2136 Chain of Custody						REQUEST	Deliverables: EDD	Reporting:Level II	State	Program:		13-620-2000)	Ā	
	Received by: (Signature)	is and conditions beyond the control regotiated.	Se Ag				-					-	ody								Level II evel III	State of Project:	Program: UST/PST ☐RP ☐	Work O	www.xenco.com		Work Order No:
	ignature)		SiO2 Na Sr Tl 1631 / 245.							Se	lab	TAT sta							¥	ADaPT []	□T/UST [□rownfields [Work Order Comments	o.com ⊃age		er No:
	Date/Time		Na Sr TI Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg			COMPOSITE	COMPOSITE	COMPOSITE	COMPOSITE	Sample Comments	lab, if received by 4:30pm	TAT starts the day recevied by the							Work Order Notes	Other:	RP L[vel IV		I_RC \$_perfund □	nts	1 of1_		

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

Chain of Custody Record

💸 eurofins

Environment Testing America

Client Information (Sub Contract Lab)	Sampler			Lab PM Krame	Lab PM Kramer, Jessica				Сап	Carrier Tracking No(s)	ing No(s	٦		8 8	COC No: 890-686 1	
	Phone:			E-Mail· iessica	E-Mail· essica.kramer@eurofinset.com	eurofinse	t.com		Stat	State of Origin: New Mexico	8 =			Page:	Page: Page 1 of 1	
Company: Eurofins Environment Testing South Centr				Z A	Accreditations Required (See note): NELAP - Louisiana, NELAP -	Required (See note	te): \P - Texas	L					30 30 30	Job #: 890-2136-1	
Address. 1211 W Florida Ave	Due Date Requested: 3/30/2022	Ġ.						alvsis Requested	eque	řed				P	Preservation Codes	odes
City Midland	TAT Requested (days)	ys)									\dashv			B-A		M Hexane N - None
State Zip: TX, 79701	<u>.</u>										<u></u>			шŌС	D - Nitric Acid	P - Na2O4S Q Na2SO3
Phone: 432-704-5440(Tel)	PO#:					e								:o⊤	MeOH Amchlor	R - Na2S2O3 S H2SO4
Email	WO #:			or No	o)	Chloride								_ — <u>.</u>	- Ascorbic Acid Ice DI Water	
Project Name: Macho Nacho 2H Battery	Project #:			(Yes	s or N									ᆫᅎ	EDTA EDA	W - pH 4-5 Z - other (specify)
Site	SSOW#			nple	(Ye									(22)	Other:	
				Sam	MSD											
		Sample (Sample N Type ((C=comp, o-	Matrix (W-water Seolid, Seolid, G-wasteloll, Id.	form MS/ 6MOD_NM	_ORGFM_2 1B/5035FP	al_BTEX_G	omob_can						al Numbe		
Sample Identification - Cilent ID (Lab ID)	Sample Date	\\lambda	G=grab) BT=Tissue, A=# Preservation Code:	15	X P							7.1		7	Special	Special Instructions/Note:
FS02 (890-2136-1)	3/23/22	11 42 Mountain		Solid	×	×	×	×						<u> </u>		
FS03 (890-2136-2)	3/23/22	11 44 Mountain		Solid	×	×	×	$\hat{\perp}$	-		_			-		
FS07 (890-2136-3)	3/23/22	11 52 Mountain		Solid	×	×	×	×					Eu. 37 2	-		
FS08 (890-2136-4)	3/23/22	11 54 Mountain		Solid	×	×	×	×						>		
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Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC.	t Testing South Centra bove for analysis/tests/r intral, LLC attention imr	al LLC places the matrix being anal mediately If all n	ownership of myzed the sample equested accrec	nethod, analyte es must be shi ditations are cu	& accreditate	ion compli the Eurofi , return the	ance upo ins Enviro signed C	n out subc onment Te Chain of Ci	contract la sting Sou ustody at	boratori th Centr lesting to	es This al LLCI said co	sample aborato mplicar	shipm ry or ot ce to E	ent is for	orwarded under tructions will be Environment Te	r chain-of-custody If the provided. Any changes to esting South Central LLC.
Possible Hazard Identification					Sample Disposal (A	Disposa		fee may be assessed if samples are retained longer	e asse	ssed ii	samp	les ar	e reta	ined	longer than	than 1 month)
Deliverable Requested 1 II III, IV, Other (specify)	Primary Deliverable Rank. 2	ble Rank. 2			Special Instructions/Qu	ial Instructions/QC	OI.	Requirements	nents.	ents.	Lab	١	,	יייייייייייייייייייייייייייייייייייייי	7.0	MOINIS
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Custody Seals Intact: Custody Seal No					Coole	Cooler Temperature(s)	ture(s) °C	and Other Remarks.	r Remark	ائی	7	\vdash	1		.]	1788
									l		ľ	+	1.			Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-2136-1 SDG Number: 31403720.000 task 26.02

List Source: Eurofins Carlsbad

Login Number: 2136 List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-2136-1 SDG Number: 31403720.000 task 26.02

Login Number: 2136 **List Source: Eurofins Midland** List Number: 2

List Creation: 03/25/22 10:25 AM

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	N/A	

<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-9761-1

Laboratory Sample Delivery Group: 32.247778, -103.550278

Client Project/Site: Macho Nacho 2H Battery

For:

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

Attn: Kalei Jennings

LAMER

Authorized for release by: 1/5/2022 1:32:37 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: 7/6/2022 3:19:30 PM

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

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

Client: WSP USA Inc. Project/Site: Macho Nacho 2H Battery Laboratory Job ID: 880-9761-1 SDG: 32.247778, -103.550278

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-9761-1 Project/Site: Macho Nacho 2H Battery

SDG: 32.247778, -103.550278

Qualifiers

0		11	$\overline{}$	•
G	U	v	U	А

Qualifier	Qualifier Description
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.

GC Semi VOA

Qualifier	Qualitier Description
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

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

Glossary

LOQ

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)

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

Limit of Quantitation (DoD/DOE)

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 **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

Eurofins Xenco, Midland

Case Narrative

Client: WSP USA Inc.

Project/Site: Macho Nacho 2H Battery

Job ID: 880-9761-1

SDG: 32.247778, -103.550278

Job ID: 880-9761-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-9761-1

Receipt

The samples were received on 12/29/2021 4:26 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: 4-Bromofluorobenzene recovery for the following sample was outside control limits: SS05 (880-9761-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15866 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.

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

HPLC/IC

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

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Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-9761-1

 Project/Site: Macho Nacho 2H Battery
 SDG: 32.247778, -103.550278

Client Sample ID: SS05 Lab Sample ID: 880-9761-1

Date Collected: 12/29/21 11:22 Matrix: Solid
Date Received: 12/29/21 16:26

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:15	01/03/22 16:36	
Toluene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:15	01/03/22 16:36	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:15	01/03/22 16:36	
m-Xylene & p-Xylene	<0.00400	U F1	0.00400	mg/Kg		01/03/22 10:15	01/03/22 16:36	
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:15	01/03/22 16:36	
Xylenes, Total	<0.00400	U F1	0.00400	mg/Kg		01/03/22 10:15	01/03/22 16:36	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130			01/03/22 10:15	01/03/22 16:36	
1,4-Difluorobenzene (Surr)	122		70 - 130			01/03/22 10:15	01/03/22 16:36	
Method: Total BTEX - Total BTEX	K Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/05/22 13:44	
	<50.0		50.0	mg/Kg	=		01/05/22 14:19	
Analyte Total TPH		Qualifier U	RL 50.0	mg/Kg	D	Prepared	Analyzed 01/05/22 14:19	Dil Fa
-								
Method: 8015B NM - Diesel Rang	ge Organics (Di	RO) (GC)						
	•	RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Gasoline Range Organics	•	Qualifier	RL 50.0	Unit mg/Kg	D	Prepared 01/03/22 09:21	Analyzed 01/03/22 17:19	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>	<u>·</u>		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U	50.0	mg/Kg	<u>D</u>	01/03/22 09:21	01/03/22 17:19	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0	Qualifier U U U	50.0	mg/Kg	<u> </u>	01/03/22 09:21	01/03/22 17:19	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0 <50.0 <50.0	Qualifier U U U	50.0 50.0 50.0	mg/Kg	<u>D</u>	01/03/22 09:21 01/03/22 09:21 01/03/22 09:21	01/03/22 17:19 01/03/22 17:19 01/03/22 17:19	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier	50.0 50.0 50.0 <i>Limits</i>	mg/Kg	<u>D</u>	01/03/22 09:21 01/03/22 09:21 01/03/22 09:21 Prepared	01/03/22 17:19 01/03/22 17:19 01/03/22 17:19 01/03/22 17:19 Analyzed	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	Result	Qualifier U U Qualifier S1+ S1+	50.0 50.0 50.0 Limits 70 - 130	mg/Kg	<u>D</u>	01/03/22 09:21 01/03/22 09:21 01/03/22 09:21 Prepared 01/03/22 09:21	01/03/22 17:19 01/03/22 17:19 01/03/22 17:19 Analyzed 01/03/22 17:19	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier S1+ S1+	50.0 50.0 50.0 Limits 70 - 130	mg/Kg	<u>D</u>	01/03/22 09:21 01/03/22 09:21 01/03/22 09:21 Prepared 01/03/22 09:21	01/03/22 17:19 01/03/22 17:19 01/03/22 17:19 Analyzed 01/03/22 17:19	Dil Fac

Client Sample ID: SS06 Lab Sample ID: 880-9761-2

Date Collected: 12/29/21 11:26 Date Received: 12/29/21 16:26

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/03/22 10:15	01/03/22 16:57	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/03/22 10:15	01/03/22 16:57	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/03/22 10:15	01/03/22 16:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/03/22 10:15	01/03/22 16:57	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/03/22 10:15	01/03/22 16:57	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/03/22 10:15	01/03/22 16:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			01/03/22 10:15	01/03/22 16:57	1

Eurofins Xenco, Midland

Matrix: Solid

Matrix: Solid

Client: WSP USA Inc.

Project/Site: Macho Nacho 2H Battery

Job ID: 880-9761-1 SDG: 32.247778, -103.550278

Lab Sample ID: 880-9761-2

Client Sample ID: SS06

Date Collected: 12/29/21 11:26 Date Received: 12/29/21 16:26

Sample Depth: 0.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130	01/03/22 10:15	01/03/22 16:57	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	<0.00398	U	0.00398	mg/Kg			01/05/22 13:44	1

Method: 8015 NM	- Diesel Range O	rganics (DRO) (GC)

Analyte	Result Qua	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	501	50.0	mg/Kg			01/05/22 14:19	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/03/22 09:21	01/03/22 17:39	1
(GRO)-C6-C10								
Diesel Range Organics (Over	501		50.0	mg/Kg		01/03/22 09:21	01/03/22 17:39	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 09:21	01/03/22 17:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130			01/03/22 09:21	01/03/22 17:39	1

o-Terphenyl		137	S1+	70 - 130
	A	Observed to several to a	0.1.1.1.	

Welliou. 300.0 - Allions, ion Cilion	iatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.3	4 95	ma/Ka			01/03/22 19:32	1

Client Sample ID: SS07

Date Collected: 12/29/21 11:29

Matrix: Solid

Date Collected: 12/29/21 11:29 Date Received: 12/29/21 16:26

Sample Depth: 0.5'

Mothod: 9021B	Volatile	Organic	Compounds (GC)
MICHIOU. OUZ ID •	voiatile v	Olualiic v	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/03/22 10:15	01/03/22 17:18	1
Toluene	< 0.00199	U	0.00199	mg/Kg		01/03/22 10:15	01/03/22 17:18	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/03/22 10:15	01/03/22 17:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/03/22 10:15	01/03/22 17:18	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/03/22 10:15	01/03/22 17:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/03/22 10:15	01/03/22 17:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			01/03/22 10:15	01/03/22 17:18	1
1,4-Difluorobenzene (Surr)	106		70 - 130			01/03/22 10:15	01/03/22 17:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	ma/Ka			01/05/22 13:44	1

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

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Matrix: Solid

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-9761-1

 Project/Site: Macho Nacho 2H Battery
 SDG: 32.247778, -103.550278

Client Sample ID: SS07

Lab Sample ID: 880-9761-3

Date Collected: 12/29/21 11:29
Date Received: 12/29/21 16:26

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/03/22 09:21	01/03/22 17:59	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/03/22 09:21	01/03/22 17:59	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 09:21	01/03/22 17:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130			01/03/22 09:21	01/03/22 17:59	1
o-Terphenyl	140	S1+	70 - 130			01/03/22 09:21	01/03/22 17:59	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
				I Imié		D	A II	Dil Faa
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SS08

Lab Sample ID: 880-9761-4

Date Collected: 12/29/21 11:32

Matrix: Solid

Date Received: 12/29/21 16:26

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/03/22 10:15	01/03/22 17:38	1
Toluene	< 0.00199	U	0.00199	mg/Kg		01/03/22 10:15	01/03/22 17:38	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/03/22 10:15	01/03/22 17:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/03/22 10:15	01/03/22 17:38	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/03/22 10:15	01/03/22 17:38	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/03/22 10:15	01/03/22 17:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			01/03/22 10:15	01/03/22 17:38	1
1,4-Difluorobenzene (Surr)	94		70 - 130			01/03/22 10:15	01/03/22 17:38	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/05/22 13:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (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	ge 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 09:21	01/03/22 18:19	1
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		01/03/22 09:21	01/03/22 18:19	1
C10-C28)	<49.9		49.9	ma///a		01/03/22 09:21	01/03/22 18:19	1
Oll Range Organics (Over C28-C36)	~49.9	U	49.9	mg/Kg		01/03/22 09:21	01/03/22 16.19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	159	S1+	70 - 130			01/03/22 09:21	01/03/22 18:19	1

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Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-9761-1

 Project/Site: Macho Nacho 2H Battery
 SDG: 32.247778, -103.550278

Client Sample ID: SS08 Lab Sample ID: 880-9761-4

Date Collected: 12/29/21 11:32 Matrix: Solid
Date Received: 12/29/21 16:26

Sample Depth: 0.5'

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.12	4.97	mg/Kg			01/03/22 19:48	1

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DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: WSP USA Inc. Job ID: 880-9761-1 Project/Site: Macho Nacho 2H Battery SDG: 32.247778, -103.550278

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)	
880-9761-1	SS05	138 S1+	122	
880-9761-1 MS	SS05	105	103	
880-9761-1 MSD	SS05	115	112	
880-9761-2	SS06	114	108	
880-9761-3	SS07	101	106	
880-9761-4	SS08	109	94	
LCS 880-15880/1-A	Lab Control Sample	110	104	
LCSD 880-15880/2-A	Lab Control Sample Dup	104	99	
MB 880-15880/5-A	Method Blank	118	104	
Surrogate Legend				

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

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

				trop types to
_				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-9761-1	SS05	141 S1+	144 S1+	
880-9761-2	SS06	137 S1+	137 S1+	
880-9761-3	SS07	137 S1+	140 S1+	
880-9761-4	SS08	159 S1+	160 S1+	
890-1777-A-1-D MS	Matrix Spike	130	114	
890-1777-A-1-E MSD	Matrix Spike Duplicate	138 S1+	123	
LCS 880-15866/2-A	Lab Control Sample	98	84	
LCSD 880-15866/3-A	Lab Control Sample Dup	98	82	
MB 880-15866/1-A	Method Blank	120	131 S1+	
Surrogate Legend				
Juli Ogale Legellu				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: WSP USA Inc.

Job ID: 880-9761-1

SDG: 32.247778, -103.550278

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

Project/Site: Macho Nacho 2H Battery

Matrix: Solid

Analysis Batch: 15550

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15880

	мв	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	l Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	01/03/22 10	:15 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

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

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: 880-9761-1 MS

Matrix: Solid

Analysis Batch: 15550

Client Sample ID: SS05 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	

QC Sample Results

Client: WSP USA Inc. Job ID: 880-9761-1 Project/Site: Macho Nacho 2H Battery SDG: 32.247778, -103.550278

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

Lab Sample ID: 880-9761-1 MS

Analysis Batch: 15550

Client Sample ID: SS05 Matrix: Solid Prep Type: Total/NA 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 Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-9761-1 MSD

Matrix: Solid

Analysis Batch: 15550

Client Sample ID: SS05 Prep Type: Total/NA Prep Batch: 15880

Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
<0.00200	U	0.100	0.07134		mg/Kg		71	70 - 130	2	35
<0.00200	U	0.100	0.07064		mg/Kg		71	70 - 130	1	35
<0.00200	U	0.100	0.07258		mg/Kg		73	70 - 130	3	35
<0.00400	U F1	0.200	0.1504		mg/Kg		75	70 - 130	13	35
<0.00200	U	0.100	0.07389		mg/Kg		74	70 - 130	6	35
	Result <0.00200 <0.00200 <0.00200 <0.00400	Sample Sample Result Qualifier <0.00200	Result Qualifier Added <0.00200	Result Qualifier Added Result <0.00200	Result Qualifier Added Result Qualifier <0.00200	Result Qualifier Added Result Qualifier Unit <0.00200	Result Qualifier Added Result Qualifier Unit D <0.00200	Result Qualifier Added Result Qualifier Unit D %Rec <0.00200	Result Qualifier Added Result Qualifier Unit D %Rec Limits <0.00200	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD <0.00200

MSD MSD

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

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

Lab Sample ID: MB 880-15866/1-A

Matrix: Solid

Analysis Batch: 15874

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 15866

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 01/03/22 09:21 01/03/22 10:57 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 50.0 01/03/22 09:21 01/03/22 10:57 <50.0 U mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 01/03/22 09:21 01/03/22 10:57 mg/Kg

MB MB Limits Surrogate %Recovery Qualifier Prepared Analyzed Dil Fac 70 - 130 01/03/22 09:21 1-Chlorooctane 120 01/03/22 10:57 70 - 130 01/03/22 09:21 01/03/22 10:57 o-Terphenyl 131 S1+

Lab Sample ID: LCS 880-15866/2-A

Matrix: Solid

Analysis Batch: 15874

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

Prep Batch: 15866

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	854.9		mg/Kg		85	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1104		mg/Kg		110	70 - 130
C10-C28)							

Client: WSP USA Inc. Job ID: 880-9761-1 Project/Site: Macho Nacho 2H Battery

Limits

70 - 130

70 - 130

SDG: 32.247778, -103.550278

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

Lab Sample ID: LCS 880-15866/2-A

Matrix: Solid

o-Terphenyl

Analysis Batch: 15874

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15866

Surrogate %Recovery Qualifier 1-Chlorooctane 98

Lab Sample ID: LCSD 880-15866/3-A

Matrix: Solid

Analysis Batch: 15874

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15866

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 839.8 84 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1146 mg/Kg 115 70 - 13020 C10-C28)

LCSD LCSD

LCS LCS

84

Surrogate %Recovery Qualifier Limits 98 70 - 130 1-Chlorooctane 82 70 - 130 o-Terphenyl

Lab Sample ID: 890-1777-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 15874

Prep Type: Total/NA

Prep Batch: 15866

Sample Sample MS MS Spike Analyte Result Qualifier hahhA Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 UF1 996 543.8 F1 mg/Kg 53 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 174 F1 996 554.2 F1 mg/Kg 38 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 130 70 - 130 o-Terphenyl 114

Lab Sample ID: 890-1777-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 15874

Prep Type: Total/NA

Prep Batch: 15866

Sample Sample MSD MSD RPD Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U F1 999 566.8 F1 Gasoline Range Organics <49.9 55 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 174 F1 999 602.0 F1 mg/Kg 43 70 - 130 20

C10-C28)

MSD MSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 138 S1+ 70 - 130 123 70 - 130 o-Terphenyl

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: SS05

Client Sample ID: SS05

Prep Type: Soluble

Prep Type: Soluble

QC Sample Results

Client: WSP USA Inc.

Job ID: 880-9761-1

Project/Site: Macho Nacho 2H Battery

SDG: 32.247778, -103.550278

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15805/1-A

Matrix: Solid

Analysis Batch: 15922

MB MB

 Analyte
 Result Chloride
 Qualifier
 RL Unit
 Unit
 D mg/Kg
 Prepared
 Analyzed Dil Fac 01/03/22 18:45
 Dil Fac 01/03/22 18:45

Lab Sample ID: LCS 880-15805/2-A

Matrix: Solid

Analysis Batch: 15922

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 244.6 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-15805/3-A

Matrix: Solid

Analysis Batch: 15922

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 244.8 mg/Kg 90 - 110

Lab Sample ID: 880-9761-1 MS

Matrix: Solid

Analysis Batch: 15922

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 14.3 250 247.8 90 - 110 mg/Kg

Lab Sample ID: 880-9761-1 MSD

Matrix: Solid

Analysis Batch: 15922

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 14.3 240.2 mg/Kg 91 90 - 110 20

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 880-9761-1

 Project/Site: Macho Nacho 2H Battery
 SDG: 32.247778, -103.550278

GC VOA

Analysis Batch: 15550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9761-1	SS05	Total/NA	Solid	8021B	15880
880-9761-2	SS06	Total/NA	Solid	8021B	15880
880-9761-3	SS07	Total/NA	Solid	8021B	15880
880-9761-4	SS08	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
880-9761-1 MS	SS05	Total/NA	Solid	8021B	15880
880-9761-1 MSD	SS05	Total/NA	Solid	8021B	15880

Prep Batch: 15880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9761-1	SS05	Total/NA	Solid	5035	
880-9761-2	SS06	Total/NA	Solid	5035	
880-9761-3	SS07	Total/NA	Solid	5035	
880-9761-4	SS08	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	
880-9761-1 MS	SS05	Total/NA	Solid	5035	
880-9761-1 MSD	SS05	Total/NA	Solid	5035	

Analysis Batch: 16096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9761-1	SS05	Total/NA	Solid	Total BTEX	
880-9761-2	SS06	Total/NA	Solid	Total BTEX	
880-9761-3	SS07	Total/NA	Solid	Total BTEX	
880-9761-4	SS08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 15866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9761-1	SS05	Total/NA	Solid	8015NM Prep	
880-9761-2	SS06	Total/NA	Solid	8015NM Prep	
880-9761-3	SS07	Total/NA	Solid	8015NM Prep	
880-9761-4	SS08	Total/NA	Solid	8015NM Prep	
MB 880-15866/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15866/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15866/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1777-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1777-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 15874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9761-1	SS05	Total/NA	Solid	8015B NM	15866
880-9761-2	SS06	Total/NA	Solid	8015B NM	15866
880-9761-3	SS07	Total/NA	Solid	8015B NM	15866
880-9761-4	SS08	Total/NA	Solid	8015B NM	15866
MB 880-15866/1-A	Method Blank	Total/NA	Solid	8015B NM	15866
LCS 880-15866/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15866

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QC Association Summary

 Client: WSP USA Inc.
 Job ID: 880-9761-1

 Project/Site: Macho Nacho 2H Battery
 SDG: 32.247778, -103.550278

GC Semi VOA (Continued)

Analysis Batch: 15874 (Continued)

Lab S	Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSI	D 880-15866/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15866
890-1	1777-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	15866
890-1	1777-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	15866

Analysis Batch: 16097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
880-9761-1	SS05	Total/NA	Solid	8015 NM
880-9761-2	SS06	Total/NA	Solid	8015 NM
880-9761-3	SS07	Total/NA	Solid	8015 NM
880-9761-4	SS08	Total/NA	Solid	8015 NM

HPLC/IC

Leach Batch: 15805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9761-1	SS05	Soluble	Solid	DI Leach	
880-9761-2	SS06	Soluble	Solid	DI Leach	
880-9761-3	SS07	Soluble	Solid	DI Leach	
880-9761-4	SS08	Soluble	Solid	DI Leach	
MB 880-15805/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15805/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15805/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9761-1 MS	SS05	Soluble	Solid	DI Leach	
880-9761-1 MSD	SS05	Soluble	Solid	DI Leach	

Analysis Batch: 15922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9761-1	SS05	Soluble	Solid	300.0	15805
880-9761-2	SS06	Soluble	Solid	300.0	15805
880-9761-3	SS07	Soluble	Solid	300.0	15805
880-9761-4	SS08	Soluble	Solid	300.0	15805
MB 880-15805/1-A	Method Blank	Soluble	Solid	300.0	15805
LCS 880-15805/2-A	Lab Control Sample	Soluble	Solid	300.0	15805
LCSD 880-15805/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15805
880-9761-1 MS	SS05	Soluble	Solid	300.0	15805
880-9761-1 MSD	SS05	Soluble	Solid	300.0	15805

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Lab Chronicle

Client: WSP USA Inc.

Job ID: 880-9761-1

Project/Site: Macho Nacho 2H Battery

SDG: 32.247778, -103.550278

Client Sample ID: SS05 Lab Sample ID: 880-9761-1

Date Collected: 12/29/21 11:22

Matrix: Solid

Date Received: 12/29/21 16:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	15880	01/03/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15550	01/03/22 16:36	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	15866	01/03/22 09:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15874	01/03/22 17:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	15805	12/30/21 12:39	CA	XEN MID
Soluble	Analysis	300.0		1			15922	01/03/22 19:08	CH	XEN MID

Client Sample ID: SS06 Lab Sample ID: 880-9761-2

Date Collected: 12/29/21 11:26

Date Received: 12/29/21 16:26

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.02 g 5 mL 15880 01/03/22 10:15 KL XEN MID Total/NA 8021B 5 mL 01/03/22 16:57 KLXEN MID Analysis 1 5 mL 15550 Total/NA Total BTEX 16096 01/05/22 13:44 XEN MID Analysis 1 A.I Total/NA Analysis 8015 NM 16097 01/05/22 14:19 XEN MID Total/NA XEN MID Prep 8015NM Prep 10.00 g 15866 01/03/22 09:21 DM 10 mL Total/NA Analysis 8015B NM 15874 01/03/22 17:39 AJ XEN MID

Client Sample ID: SS07 Lab Sample ID: 880-9761-3

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5.05 g

50 mL

15805

15922

12/30/21 12:39

01/03/22 19:32

CA

CH

Date Collected: 12/29/21 11:29 Matrix: Solid
Date Received: 12/29/21 16:26

	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	15880	01/03/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15550	01/03/22 17:18	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	15866	01/03/22 09:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15874	01/03/22 17:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	15805	12/30/21 12:39	CA	XEN MID
Soluble	Analysis	300.0		1			15922	01/03/22 19:40	CH	XEN MID

Client Sample ID: SS08 Lab Sample ID: 880-9761-4

Date Collected: 12/29/21 11:32 Matrix: Solid
Date Received: 12/29/21 16:26

	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	15880	01/03/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15550	01/03/22 17:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16096	01/05/22 13:44	AJ	XEN MID

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XEN MID

XEN MID

Soluble

Soluble

Leach

Analysis

DI Leach

300.0

Lab Chronicle

 Client: WSP USA Inc.
 Job ID: 880-9761-1

 Project/Site: Macho Nacho 2H Battery
 SDG: 32.247778, -103.550278

Client Sample ID: SS08 Lab Sample ID: 880-9761-4

Date Collected: 12/29/21 11:32

Date Received: 12/29/21 16:26

Matrix: Solid

	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			10.02 g	10 mL	15866	01/03/22 09:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15874	01/03/22 18:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	15805	12/30/21 12:39	CA	XEN MID
Soluble	Analysis	300.0		1			15922	01/03/22 19:48	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, 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: 880-9761-1 Project/Site: Macho Nacho 2H Battery SDG: 32.247778, -103.550278

Laboratory: Eurofins Xenco, Midland

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

Authority		ogram	Identification Number	Expiration Date	
Texas		ELAP	T104704400-21-22	06-30-22	
The following analytes	are included in this report hi	it the laboratory is not certifi	ed by the governing authority. This list ma	y include analytes for	
the agency does not of	• •	at the laboratory is not certain	ed by the governing authority. This list his	ay include analytes for	
,	• •	Matrix	Analyte	ay include analytes for	
the agency does not of	fer certification.	•	, , ,		

Method Summary

Client: WSP USA Inc.

Project/Site: Macho Nacho 2H Battery

Job ID: 880-9761-1

SDG: 32.247778, -103.550278

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Xenco, Midland

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Sample Summary

Client: WSP USA Inc.

Project/Site: Macho Nacho 2H Battery

Job ID: 880-9761-1

SDG: 32.247778, -103.550278

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-9761-1	SS05	Solid	12/29/21 11:22	12/29/21 16:26	0.5'
880-9761-2	SS06	Solid	12/29/21 11:26	12/29/21 16:26	0.5'
880-9761-3	SS07	Solid	12/29/21 11:29	12/29/21 16:26	0.5'
880-9761-4	SS08	Solid	12/29/21 11:32	12/29/21 16:26	0.5'

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Project Manager

ompany Name

WSP USA Kaleı Jennings

Address City, State ZIP

3300 N A Street, Blg 1 Unit 222

Address

Reporting Level | PST/US TRf

Program. UST/PST☐ PRP☐ Brownfield☐ RRᠿ

Superfund

www xenco com

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Work Order Comments

State of Project.

Bill to (if different)

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

16
Date/Time Relinquished by (Signature) Received by (Signature)
A 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 functions are due to circumstances beyond the control Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed These terms will be enforced unless previously negotiated.
3a Be Cd Cr Co Cu Ph Mn Mo
Bar Ber Brick Car Car Car Ear Bh Mar Mar Mar Ni K
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×
×
×
Chlorid
300
ANALYSIS REQUEST
Deliverables EDD
Reporting Level Level

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 880-9761-1

SDG Number: 32.247778, -103.550278

List Source: Eurofins Xenco, Midland

Login Number: 9761 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	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-9762-1

Laboratory Sample Delivery Group: 32.247778, -103.550278

Client Project/Site: Macho Nacho 2H Battery

For:

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

Attn: Kalei Jennings

LAMER

Authorized for release by: 1/5/2022 1:32:37 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: 7/6/2022 3:19:30 PM

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

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

Client: WSP USA Inc. Project/Site: Macho Nacho 2H Battery Laboratory Job ID: 880-9762-1 SDG: 32.247778, -103.550278

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-9762-1 Project/Site: Macho Nacho 2H Battery

SDG: 32.247778, -103.550278

Qualifiers

GC VOA

Qualifier	Qualifier Description				
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.				

GC Semi VOA

Qualifier	Qualifier Description
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

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

Glossary

LOQ

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)					

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

Limit of Quantitation (DoD/DOE)

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

NC Not Calculated

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

NEG Negative / Absent Positive / Present POS **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)

Too Numerous To Count TNTC

Case Narrative

Client: WSP USA Inc.

Project/Site: Macho Nacho 2H Battery

Job ID: 880-9762-1

SDG: 32.247778, -103.550278

Job ID: 880-9762-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-9762-1

Receipt

The samples were received on 12/29/2021 4:26 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

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 880-15866 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.

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

Client Sample Results

Client: WSP USA Inc. Job ID: 880-9762-1 Project/Site: Macho Nacho 2H Battery SDG: 32.247778, -103.550278

Client Sample ID: SS01 Lab Sample ID: 880-9762-1

Date Collected: 12/29/21 10:01 Date Received: 12/29/21 16:26

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:30	01/02/22 20:47	1
Toluene	0.00999		0.00200	mg/Kg		12/30/21 14:30	01/02/22 20:47	1
Ethylbenzene	0.00558		0.00200	mg/Kg		12/30/21 14:30	01/02/22 20:47	1
m-Xylene & p-Xylene	0.0171		0.00399	mg/Kg		12/30/21 14:30	01/02/22 20:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:30	01/02/22 20:47	1
Xylenes, Total	0.0171		0.00399	mg/Kg		12/30/21 14:30	01/02/22 20:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130			12/30/21 14:30	01/02/22 20:47	1
1,4-Difluorobenzene (Surr)	91		70 - 130			12/30/21 14:30	01/02/22 20:47	1
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
: Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	618		50.0	mg/Kg			01/05/22 14:19	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		01/03/22 09:21	01/03/22 18:39	1
Diesel Range Organics (Over C10-C28)	618		50.0	mg/Kg		01/03/22 09:21	01/03/22 18:39	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 09:21	01/03/22 18:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130			01/03/22 09:21	01/03/22 18:39	1
o-Terphenyl	133	S1+	70 - 130			01/03/22 09:21	01/03/22 18:39	1
Method: 300.0 - Anions, Ion Chro								
Analyte	Result 202	Qualifier	RL 5.01	Unit mg/Kg	D	Prepared	Analyzed 01/03/22 19:56	Dil Fac

Client Sample ID: SS02 Lab Sample ID: 880-9762-2 Matrix: Solid

Date Collected: 12/29/21 10:04 Date Received: 12/29/21 16:26

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/30/21 14:30	01/02/22 21:15	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/30/21 14:30	01/02/22 21:15	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/30/21 14:30	01/02/22 21:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/30/21 14:30	01/02/22 21:15	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/30/21 14:30	01/02/22 21:15	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/30/21 14:30	01/02/22 21:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			12/30/21 14:30	01/02/22 21:15	

Matrix: Solid

Client: WSP USA Inc.

Project/Site: Macho Nacho 2H Battery

Job ID: 880-9762-1 SDG: 32.247778, -103.550278

Lab Sample ID: 880-9762-2

Client Sample ID: SS02

Date Collected: 12/29/21 10:04 Date Received: 12/29/21 16:26

Sample Depth: 0.5'

Method: 8021B - Volatile Orga	nic Compounds (GC) (Continued)	

Surrogate	%Recovery Qualifi	er Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	83	70 - 130	12/30/21 14:30	01/02/22 21:15	1

Method:	Total BT	FX - Tota	al BTFX	Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396 U	0.00396	ma/Ka			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		88.4		49 9	ma/Ka			01/05/22 14:19	1	

A	D: 1 D	•	(DDO) (
Method: 8015B NM	- Diesel Range	Organics	(DKO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		01/03/22 09:21	01/03/22 19:00	1
(GRO)-C6-C10								
Diesel Range Organics (Over	88.4		49.9	mg/Kg		01/03/22 09:21	01/03/22 19:00	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/03/22 09:21	01/03/22 19:00	1
l <u> </u>								

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130	01/03/22 09:21	01/03/22 19:00	1
o-Terphenyl	138	S1+	70 - 130	01/03/22 09:21	01/03/22 19:00	1

Analyte	Result Qualifie		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.0	4.98	mg/Kg			01/03/22 20:19	1

Client Sample ID: SS03

Lab Sample ID: 880-9762-3

Date Collected: 12/29/21 10:09

Matrix: Solid

Date Collected: 12/29/21 10:09 Date Received: 12/29/21 16:26

Sample Depth: 0.5'

Mothod: 9021D	Volatila Organia	Compounds (GC)
I WIELIIOU. OUZ ID '	• voiatile Organic	Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:30	01/02/22 21:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:30	01/02/22 21:42	1
Ethylbenzene	0.00589		0.00200	mg/Kg		12/30/21 14:30	01/02/22 21:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/30/21 14:30	01/02/22 21:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:30	01/02/22 21:42	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/30/21 14:30	01/02/22 21:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130			12/30/21 14:30	01/02/22 21:42	1
1,4-Difluorobenzene (Surr)	94		70 - 130			12/30/21 14:30	01/02/22 21:42	1

ı						
ı	Mothod	Total	DTEV	Total	DTEV	Calculation

Analyte	Result Q	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00589		0.00401	ma/Ka			01/05/22 13:44	1

Method. 0013 MM - Dieser Kange Organics (DRO) (GC)	Method: 8015 NM - Die	esel Range C	Organics (DRO)	(GC)
--	-----------------------	--------------	------------	------	------

Analyte	•	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH		78.8		50.0	mg/Kg			01/05/22 14:19	1

Eurofins Xenco, Midland

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 Client: WSP USA Inc.
 Job ID: 880-9762-1

 Project/Site: Macho Nacho 2H Battery
 SDG: 32.247778, -103.550278

Toject/Site. Macrio Nacrio 211 Battery

Client Sample ID: SS03

Date Collected: 12/29/21 10:09

Matrix: Solid

Date Received: 12/29/21 16:26

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 (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/03/22 09:21	01/03/22 19:21	1
Diesel Range Organics (Over C10-C28)	78.8		50.0	mg/Kg		01/03/22 09:21	01/03/22 19:21	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 09:21	01/03/22 19:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	164	S1+	70 - 130			01/03/22 09:21	01/03/22 19:21	
o-Terphenyl	160	S1+	70 - 130			01/03/22 09:21	01/03/22 19:21	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SS04

Date Collected: 12/29/21 10:12

Lab Sample ID: 880-9762-4

Matrix: Solid

Date Collected: 12/29/21 10:12
Date Received: 12/29/21 16:26

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/30/21 14:30	01/02/22 22:09	1
Toluene	0.00397		0.00199	mg/Kg		12/30/21 14:30	01/02/22 22:09	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		12/30/21 14:30	01/02/22 22:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/30/21 14:30	01/02/22 22:09	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		12/30/21 14:30	01/02/22 22:09	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/30/21 14:30	01/02/22 22:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130			12/30/21 14:30	01/02/22 22:09	1
1,4-Difluorobenzene (Surr)	95		70 - 130			12/30/21 14:30	01/02/22 22:09	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			01/05/22 13:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	181		50.0	mg/Kg			01/05/22 14:19	1
Method: 8015B NM - Diesel Rang	je 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		01/03/22 09:21	01/03/22 19:42	1
Diesel Range Organics (Over C10-C28)	181		50.0	mg/Kg		01/03/22 09:21	01/03/22 19:42	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 09:21	01/03/22 19:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130			01/03/22 09:21	01/03/22 19:42	1
o-Terphenyl	132	S1+	70 - 130			01/03/22 09:21	01/03/22 19:42	1

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Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-9762-1

 Project/Site: Macho Nacho 2H Battery
 SDG: 32.247778, -103.550278

Client Sample ID: SS04 Lab Sample ID: 880-9762-4

Date Collected: 12/29/21 10:12 Matrix: Solid

Date Received: 12/29/21 16:26 Sample Depth: 0.5'

Method: 300.0 - Anions, Ion Chron	natography - Sol	luble					
Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.7	5.02	mg/Kg			01/03/22 20:35	1

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Surrogate Summary

Client: WSP USA Inc. Job ID: 880-9762-1 Project/Site: Macho Nacho 2H Battery SDG: 32.247778, -103.550278

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-9762-1	SS01	159 S1+	91	
880-9762-2	SS02	111	83	
880-9762-3	SS03	167 S1+	94	
880-9762-4	SS04	158 S1+	95	
890-1776-A-1-B MS	Matrix Spike	154 S1+	98	
890-1776-A-1-C MSD	Matrix Spike Duplicate	151 S1+	97	
LCS 880-15815/1-A	Lab Control Sample	143 S1+	110	
LCSD 880-15815/2-A	Lab Control Sample Dup	127	108	
MB 880-15812/5-A	Method Blank	90	87	
MB 880-15815/5-A	Method Blank	103	89	

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)	
880-9762-1	SS01	135 S1+	133 S1+	
880-9762-2	SS02	145 S1+	138 S1+	
880-9762-3	SS03	164 S1+	160 S1+	
880-9762-4	SS04	131 S1+	132 S1+	
890-1777-A-1-D MS	Matrix Spike	130	114	
890-1777-A-1-E MSD	Matrix Spike Duplicate	138 S1+	123	
LCS 880-15866/2-A	Lab Control Sample	98	84	
LCSD 880-15866/3-A	Lab Control Sample Dup	98	82	
MB 880-15866/1-A	Method Blank	120	131 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Project/Site: Macho Nacho 2H Battery

Job ID: 880-9762-1 SDG: 32.247778, -103.550278

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-15812/5-A

Matrix: Solid

Analysis Batch: 15844

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15812

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/01/22 21:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/01/22 21:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/01/22 21:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/30/21 14:12	01/01/22 21:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/01/22 21:46	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/30/21 14:12	01/01/22 21:46	1

MB MB

MR MR

Surrogate	%Recovery Qualifie	er Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90	70 - 130	12/30/21 14:12	01/01/22 21:46	1
1,4-Difluorobenzene (Surr)	87	70 - 130	12/30/21 14:12	01/01/22 21:46	1

Lab Sample ID: MB 880-15815/5-A

Matrix: Solid

Analysis Batch: 15844

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

Prep Batch: 15815

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:30	01/02/22 11:39	
Toluene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:30	01/02/22 11:39	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:30	01/02/22 11:39	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/30/21 14:30	01/02/22 11:39	
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:30	01/02/22 11:39	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/30/21 14:30	01/02/22 11:39	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	12/30/21 14:30	01/02/22 11:39	1
1,4-Difluorobenzene (Surr)	89		70 - 130	12/30/21 14:30	01/02/22 11:39	1

Lab Sample ID: LCS 880-15815/1-A

Matrix: Solid

Analysis Batch: 15844

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 15815

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07276 mg/Kg 73 70 - 130 Toluene 0.100 0.07253 mg/Kg 73 70 - 130 Ethylbenzene 0.100 0.07747 mg/Kg 77 70 - 130 0.200 70 - 130 m-Xylene & p-Xylene 0.1561 mg/Kg 78 0.100 0.07824 78 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	143	S1+	70 _ 130
1.4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-15815/2-A

Matrix: Solid

Analysis Batch: 15844

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15815

	Бріке	LCSD LC	งอก			%Rec.		RPD
Analyte	Added	Result Qu	ualifier Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07279	mg/Kg		73	70 - 130	0	35

QC Sample Results

Client: WSP USA Inc. Job ID: 880-9762-1 Project/Site: Macho Nacho 2H Battery SDG: 32.247778, -103.550278

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

Lab Sample ID: LCSD 880-15815/2-A

Matrix: Solid Analysis Batch: 15844 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 15815

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.07183		mg/Kg		72	70 - 130	1	35
Ethylbenzene	0.100	0.07053		mg/Kg		71	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1413		mg/Kg		71	70 - 130	10	35
o-Xylene	0.100	0.07162		mg/Kg		72	70 - 130	9	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	127	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

Lab Sample ID: 890-1776-A-1-B MS

Matrix: Solid

Analysis Batch: 15844

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

Prep Batch: 15815

MS MS %Rec. Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene <0.00199 U F1 0.101 0.05921 F1 59 mg/Kg 70 - 130 Toluene 0.00700 F1 0.101 0.06059 F1 53 70 - 130 mg/Kg Ethylbenzene 0.00553 F1 0.101 0.06163 F1 70 - 130 mg/Kg 56 0.0185 F1 0.202 m-Xylene & p-Xylene 0.1375 F1 59 70 - 130 mg/Kg o-Xylene <0.00199 UF1 0.101 0.05260 F1 mg/Kg 52 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-1776-A-1-C MSD

Matrix: Solid

Analysis Batch: 15844

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15815

Tananyone Banenin 100 11											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U F1	0.0998	0.05476	F1	mg/Kg		55	70 - 130	8	35
Toluene	0.00700	F1	0.0998	0.05680	F1	mg/Kg		50	70 - 130	6	35
Ethylbenzene	0.00553	F1	0.0998	0.04772	F1	mg/Kg		42	70 - 130	25	35
m-Xylene & p-Xylene	0.0185	F1	0.200	0.1112	F1	mg/Kg		46	70 - 130	21	35
o-Xylene	<0.00199	U F1	0.0998	0.04595	F1	mg/Kg		46	70 - 130	13	35

MSD MSD

MD MD

Surroyale	76Recovery	Qualifier	LIIIIII
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 880-15866/1-A

Matrix: Solid

Analysis Batch: 15874

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

Prep Batch: 15866

	INID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/03/22 09:21	01/03/22 10:57	1
(GRO)-C6-C10								

Analysis Batch: 15874

Surrogate

o-Terphenyl

1-Chlorooctane

QC Sample Results

Job ID: 880-9762-1 Client: WSP USA Inc. Project/Site: Macho Nacho 2H Battery SDG: 32.247778, -103.550278

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

Lab Sample ID: MB 880-15866/1-A **Matrix: Solid**

MR MR

120

131 S1+

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

01/03/22 10:57

Prep Batch: 15866

ı									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/03/22 09:21	01/03/22 10:57	1
	C10-C28)								
	OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 09:21	01/03/22 10:57	1
ı									

MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 01/03/22 09:21 01/03/22 10:57

01/03/22 09:21

Lab Sample ID: LCS 880-15866/2-A Client Sample ID: Lab Control Sample

70 - 130

Matrix: Solid Prep Type: Total/NA Analysis Batch: 15874 Prep Batch: 15866

Sp	ike LCS	LCS				%Rec.	
Analyte Add	led Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	000 854.9		mg/Kg		85	70 - 130	
(GRO)-C6-C10							
Diesel Range Organics (Over	000 1104		mg/Kg		110	70 - 130	
C10-C28)							

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 98 o-Terphenyl 84 70 - 130

Lab Sample ID: LCSD 880-15866/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 15874 Prep Batch: 15866

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	839.8		mg/Kg		84	70 - 130	2	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1146		mg/Kg		115	70 - 130	4	20	
C10-C28)										

		LCSD	LCSD	
	Surrogate	%Recovery	Qualifier	Limits
	1-Chlorooctane	98		70 - 130
l	o-Terphenyl	82		70 - 130

Lab Sample ID: 890-1777-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA Analysis Batch: 15874 Prep Batch: 15866

	Sample	Sample	Spike	IVIO	IVIO				70Kec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U F1	996	543.8	F1	mg/Kg		53	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	174	F1	996	554.2	F1	mg/Kg		38	70 - 130	
C10-C28)										

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	130		70 - 130
o-Terphenyl	114		70 - 130

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1/5/2022

Client: WSP USA Inc. Job ID: 880-9762-1 Project/Site: Macho Nacho 2H Battery SDG: 32.247778, -103.550278

mg/Kg

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

174 F1

Lab Sample ID: 890-1777-A-1-E MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Prep Type: Total/NA Prep Batch: 15866

Analysis Batch: 15874 Sample Sample MSD MSD RPD Spike Analyte Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Unit D Gasoline Range Organics <49.9 U F1 999 566.8 F1 mg/Kg 55 70 - 130 4

999

(GRO)-C6-C10 Diesel Range Organics (Over

20 43 70 - 1308 20

C10-C28)

MSD MSD

602.0 F1

Qualifier Limits Surrogate %Recovery 1-Chlorooctane S1+ 70 - 130 138 o-Terphenyl 123 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15805/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 15922

MB MB Result Qualifier RL Unit Analyte D Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 01/03/22 18:45 U

Lab Sample ID: LCS 880-15805/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15922

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 90 - 110 244.6 mg/Kg

Lab Sample ID: LCSD 880-15805/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 15922

Spike LCSD LCSD RPD %Rec. Analyte Added Result Qualifier Unit %Rec RPD Limit Chloride 250 244.8 98 90 - 110 mg/Kg 0

Lab Sample ID: 880-9761-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 15922

Sample Sample Spike MS MS %Rec. Result Qualifier Added Qualifier Analyte Result %Rec Limits Unit Chloride 250 90 - 110 14.3 247.8 mg/Kg

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

Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15922

Sample Sample Spike MSD MSD %Rec. RPD Qualifier Added RPD Analyte Result Result Qualifier %Rec Limits Limit Unit D 250 240.2 Chloride 14.3 91 90 - 110 20 mg/Kg 3

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Prep Type: Soluble

Prep Type: Soluble

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 880-9762-1

 Project/Site: Macho Nacho 2H Battery
 SDG: 32.247778, -103.550278

GC VOA

Prep Batch: 15812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-15812/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 15815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9762-1	SS01	Total/NA	Solid	5035	
880-9762-2	SS02	Total/NA	Solid	5035	
880-9762-3	SS03	Total/NA	Solid	5035	
880-9762-4	SS04	Total/NA	Solid	5035	
MB 880-15815/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15815/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15815/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1776-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-1776-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 15844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9762-1	SS01	Total/NA	Solid	8021B	15815
880-9762-2	SS02	Total/NA	Solid	8021B	15815
880-9762-3	SS03	Total/NA	Solid	8021B	15815
880-9762-4	SS04	Total/NA	Solid	8021B	15815
MB 880-15812/5-A	Method Blank	Total/NA	Solid	8021B	15812
MB 880-15815/5-A	Method Blank	Total/NA	Solid	8021B	15815
LCS 880-15815/1-A	Lab Control Sample	Total/NA	Solid	8021B	15815
LCSD 880-15815/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15815
890-1776-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	15815
890-1776-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15815

Analysis Batch: 16096

Lab Sample ID 880-9762-1	Client Sample ID SS01	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
880-9762-2	SS02	Total/NA	Solid	Total BTEX	
880-9762-3	SS03	Total/NA	Solid	Total BTEX	
880-9762-4	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 15866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9762-1	SS01	Total/NA	Solid	8015NM Prep	
880-9762-2	SS02	Total/NA	Solid	8015NM Prep	
880-9762-3	SS03	Total/NA	Solid	8015NM Prep	
880-9762-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-15866/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15866/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15866/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1777-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1777-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 15874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9762-1	SS01	Total/NA	Solid	8015B NM	15866

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QC Association Summary

Client: WSP USA Inc. Job ID: 880-9762-1 Project/Site: Macho Nacho 2H Battery

SDG: 32.247778, -103.550278

GC Semi VOA (Continued)

Analysis Batch: 15874 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9762-2	SS02	Total/NA	Solid	8015B NM	15866
880-9762-3	SS03	Total/NA	Solid	8015B NM	15866
880-9762-4	SS04	Total/NA	Solid	8015B NM	15866
MB 880-15866/1-A	Method Blank	Total/NA	Solid	8015B NM	15866
LCS 880-15866/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15866
LCSD 880-15866/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15866
890-1777-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	15866
890-1777-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	15866

Analysis Batch: 16097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9762-1	SS01	Total/NA	Solid	8015 NM	
880-9762-2	SS02	Total/NA	Solid	8015 NM	
880-9762-3	SS03	Total/NA	Solid	8015 NM	
880-9762-4	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 15805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9762-1	SS01	Soluble	Solid	DI Leach	
880-9762-2	SS02	Soluble	Solid	DI Leach	
880-9762-3	SS03	Soluble	Solid	DI Leach	
880-9762-4	SS04	Soluble	Solid	DI Leach	
MB 880-15805/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15805/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15805/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9761-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-9761-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 15922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9762-1	SS01	Soluble	Solid	300.0	15805
880-9762-2	SS02	Soluble	Solid	300.0	15805
880-9762-3	SS03	Soluble	Solid	300.0	15805
880-9762-4	SS04	Soluble	Solid	300.0	15805
MB 880-15805/1-A	Method Blank	Soluble	Solid	300.0	15805
LCS 880-15805/2-A	Lab Control Sample	Soluble	Solid	300.0	15805
LCSD 880-15805/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15805
880-9761-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	15805
880-9761-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	15805

Client: WSP USA Inc.

Job ID: 880-9762-1 Project/Site: Macho Nacho 2H Battery SDG: 32.247778, -103.550278

Client Sample ID: SS01

Lab Sample ID: 880-9762-1 Date Collected: 12/29/21 10:01

Matrix: Solid

Date Received: 12/29/21 16:26

	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	15815	12/30/21 14:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15844	01/02/22 20:47	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	15866	01/03/22 09:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15874	01/03/22 18:39	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	15805	12/30/21 12:39	CA	XEN MID
Soluble	Analysis	300.0		1			15922	01/03/22 19:56	CH	XEN MID

Client Sample ID: SS02 Lab Sample ID: 880-9762-2

Date Collected: 12/29/21 10:04

Date Received: 12/29/21 16:26

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.05 g 5 mL 15815 12/30/21 14:30 MR XEN MID Total/NA 8021B 5 mL 01/02/22 21:15 XEN MID Analysis 1 5 mL 15844 KL Total/NA Total BTEX 16096 01/05/22 13:44 XEN MID Analysis 1 A.I Total/NA Analysis 8015 NM 16097 01/05/22 14:19 XEN MID Total/NA XEN MID Prep 8015NM Prep 10.02 g 15866 01/03/22 09:21 DM 10 mL

Soluble Analysis 300.0 1 15922 01/03/22 20:19 CH XEN MID **Client Sample ID: SS03** Lab Sample ID: 880-9762-3

5.02 g

15874

15805

50 mL

01/03/22 19:00

12/30/21 12:39

AJ

CA

XEN MID

XEN MID

Matrix: Solid

Date Collected: 12/29/21 10:09 Date Received: 12/29/21 16:26

Analysis

Leach

8015B NM

DI Leach

Total/NA

Soluble

	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	15815	12/30/21 14:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15844	01/02/22 21:42	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	15866	01/03/22 09:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15874	01/03/22 19:21	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	15805	12/30/21 12:39	CA	XEN MID
Soluble	Analysis	300.0		1			15922	01/03/22 20:27	CH	XEN MID

Client Sample ID: SS04 Lab Sample ID: 880-9762-4

Date Collected: 12/29/21 10:12 Date Received: 12/29/21 16:26

	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	15815	12/30/21 14:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15844	01/02/22 22:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16096	01/05/22 13:44	AJ	XEN MID

Eurofins Xenco, Midland

Page 16 of 22

Matrix: Solid

Released to Imaging: 7/6/2022 3:19:30 PM

Lab Chronicle

 Client: WSP USA Inc.
 Job ID: 880-9762-1

 Project/Site: Macho Nacho 2H Battery
 SDG: 32.247778, -103.550278

Client Sample ID: SS04 Lab Sample ID: 880-9762-4

Date Collected: 12/29/21 10:12

Date Received: 12/29/21 16:26

Matrix: Solid

	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			10.01 g	10 mL	15866	01/03/22 09:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15874	01/03/22 19:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	15805	12/30/21 12:39	CA	XEN MID
Soluble	Analysis	300.0		1			15922	01/03/22 20:35	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, 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: 880-9762-1

 Project/Site: Macho Nacho 2H Battery
 SDG: 32.247778, -103.550278

Laboratory: Eurofins Xenco, Midland

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

Authority	Pro	ogram	Identification Number	Expiration Date
Texas	NE	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	ed by the governing additionty. This list the	ay include analytes for t
,		Matrix	Analyte	ay include analytes for v
the agency does not of	fer certification.	•	, , ,	

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Method Summary

Client: WSP USA Inc.

Project/Site: Macho Nacho 2H Battery

Job ID: 880-9762-1

SDG: 32.247778, -103.550278

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

Protocol References:

ASTM = ASTM International

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Xenco, Midland

Released to Imaging: 7/6/2022 3:19:30 PM

Sample Summary

Client: WSP USA Inc.

Project/Site: Macho Nacho 2H Battery

Job ID: 880-9762-1

SDG: 32.247778, -103.550278

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-9762-1	SS01	Solid	12/29/21 10:01	12/29/21 16:26	0.5'
880-9762-2	SS02	Solid	12/29/21 10:04	12/29/21 16:26	0.5'
880-9762-3	SS03	Solid	12/29/21 10:09	12/29/21 16:26	0.5'
880-9762-4	SS04	Solid	12/29/21 10:12	12/29/21 16:26	0.5'

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12

13

14

Total 200.7 / 6010

Relinquished by (Signature)

Received by (Signature)

12/29/

Date/Time

Relinquished by (Signature)

Received by (Signature)

Date/Time

Revised Date 101419 Rev 2019 -

Ladeie Green

odice. Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions

TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Phone

City, State ZIP

\ddress.

Project Number Project Name

Sampler's Name

roject Location

SAMPLE RECEIP

Project Manager

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

880-9762 Chain of Custody

Manager Kaler Jennings	Dan l																	
	ļ			Company Name	ama iong									- 101	Ì	ין אַניין אַניין אַניין	, dei	
		Unit 222		Address									State	State of Project	yject [2	0	State of Project
State ZIP Midland TX 79705	X 79705			City State ZIP	8								Reportir	າg Leve	Ō	evel 🗌	PST/L	Reporting Level ☐ Level ☐ PST/U4☐ TRf☐ Level 7
817-683-2503	03		Email	kalei jennings@wsp com	igs@ws	p com							Delivera	Deliverables EDD	DO 💢	2	ADaPT 🗆	
ct Name. Ma	Macho Nacho 2H Battery	2H Battery	Τι	Turn Around						ANAL	YSIS F	ANALYSIS REQUEST	\$ 7					Preservative Codes
ct Number	31403720	720	Routine	ine 🗓			_	_	_		_		_	_	_	\dashv	1	HNO3 HN
	32 247778, -103 550278	03 550278	Rush		ve	_			\dashv	_	1				-	+		HOSON HO
	Hadlie Green	reen	Due	Due Date 5 NAV	vati													HCI HI
				¥.	ser													None NO
MPLE RECEIPT	Temp Blank.	Yes No) Wet Ice	(Yes) No	/Pre													NaOH Na
oerature (°C)	J. U. 5	-	hermometer ID	ō	ners						····						-	MeOH Me
ived Intact.	Yes No		TROS		ntaiı		21)	0 0)										Zn Acetate+ NaOH Zn
er Custody Seals. Yes	No NA	Correction Factor	ctor:	Ô	Cor	15)	=80	A 30									- 11	
ole Custody Seals Yes	No (N/A	Total Containers	ers		r of	PA 80	PA 0	e (EP										IAT starts the day recevied by the lab if received by 4 30pm
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Numbe Code	TPH (EF	BTEX (E	Chlorid		777111111111111111111111111111111111111								Sample Comments
SS01	SL	12/29/2021	10 01	0 5'	1	×	×	×		-			_		\dashv			407
SS02	2	12/29/2021	10 04	0 5'	1	×	×	×										
SS03	72	12/29/2021	10 09	0.5'		×	×	×					\dashv	\dashv	\dashv			
SS04	SL	12/29/2021	10 12	0 5'	1	×	×	×							\dashv			
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										_			_	4	-			
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Sample Custody Seals

eceived Intact. ooler Custody Seals.

emperature (°C)

1631 / 245.1 / 7470 / 7471 Hg

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 880-9762-1

SDG Number: 32.247778, -103.550278

List Source: Eurofins Xenco, Midland

Login Number: 9762 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	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



APPENDIX E

NMOCD Notifications

From: Nobui, Jennifer, EMNRD

To: Kalei Jennings

Cc: Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD

Subject: FW: [EXTERNAL] COP- Sampling Notification (Week of 5/23/22-5/27/22)

Date: Thursday, May 19, 2022 12:29:01 PM

Attachments: <u>image001.png</u>

image002.png image003.png image004.png

[**EXTERNAL EMAIL**]

Kalei,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,

Jennifer Nobui

From: Enviro, OCD, EMNRD < OCD. Enviro@state.nm.us>

Sent: Thursday, May 19, 2022 10:40 AM

To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Hamlet, Robert, EMNRD

<Robert.Hamlet@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>;

Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Subject: Fw: [EXTERNAL] COP- Sampling Notification (Week of 5/23/22-5/27/22)

From: Kalei Jennings < <u>kiennings@ensolum.com</u>>

Sent: Thursday, May 19, 2022 10:21 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@state.nm.us >

Cc: Beauvais, Charles R < Charles.R.Beauvais@conocophillips.com

Subject: [EXTERNAL] COP- Sampling Notification (Week of 5/23/22-5/27/22)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

COP plans to complete final sampling activities at the following sites the week of May 23, 2022.

Monday

- Mortarboard Federal Com 013H / NAPP2206950640
- Montera Federal 10M CTB / NAPP2135442784

Tuesday

Montera Federal 10M CTB / NAPP2135442784

Wednesday

• Macho Nacho 002H / NAPP200644754

Thursday

• Macho Nacho 002H / NAPP200644754

Friday

Thank you,



Kalei Jennings Senior Scientist 817-683-2503 Ensolum, LLC



APPENDIX F 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

Ε

02

24S

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	NAPP2200644754
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party	COG Operating, LLC	OGRID		229137
Contact Nar	me	Kelsy Waggaman	Contact Tele	phone	(432) 688-9057
Contact ema	ail	Kelsy.Waggaman@ConocoPhillips.com	Incident # (as	ssigned by OCD)	NAPP2200644754
Contact mai	iling address	600 West Illinois Avenue, Midlar	nd, Texas 7	9701	
		Location of R			
Latitude	32.2477	' 78	Longitude	-103.5	50278
		(NAD 83 in decimal deg	rees to 5 decimal	places)	
Site Name	N	Macho Nacho 002H	Site Type	Tank	Battery
D : D 1	D: 1		A DITH		

Date Release Discovered December 21, 2021

| API# (if applicable)
| Unit Letter | Section | Township | Range | County |

L		l I		l		
Surface Owner	: 🔳 State	☐ Federal ☐ Tr	ibal	Name:)

33E

Nature and Volume of Release

Lea

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)					
Crude Oil	Volume Released (bbls) 1.3	Volume Recovered (bbls) 0			
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)			
	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					

The release was caused by a Separator high leveled and sent fluid out the flare. Dump controller failed and high level kill malfunctioned. The release occurred on the facility pad. ConocoPhillips will have the spill area evaluated for any possible impact from the release.

Received by OCD: 6/24/2022 9:40:38 AM State of New Mexico
Page 2 Oil Conservation Division

-	TW 400		
Page.	HAMA	nt d	5.5
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Incident ID	NAPP2200644754
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	The release involved a fire.	
19.15.29.7(A) NMAC?		
Yes No		
ICALEG : 1' .		0. W7 11 1 1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1
·	Ç	om? When and by what means (phone, email, etc)? e-mail December 21, 2021 at 11:12 am to
ocd.enviro@state.n		e-mail December 21, 2021 at 11.12 am to
	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	vunless they could create a safety hazard that would result in injury
■ The source of the rele	ease has been stopped.	
■ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or o	ikes, 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	vhy:
D 10.15.20.0 D (4) NIM	TACAL TIL	
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
		pest of my knowledge and understand that pursuant to OCD rules and
		Exactions and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have
failed to adequately investig	ate and remediate contamination that pose a thre	at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.	if a C-141 report does not reneve the operator of	
Printed Name. Brittar	ny N. Esparza	Title: Environmental Technician
Signatura: Faut	ny N. Esparza	1/6/2022
Brittany Esnar	za@ConocoPhillips.com	Date: 1/6/2022 Telephone: (432) 221-0398
email:	246 20110001 11111111111111111111111111111	Telephone: (402) 221-0000
OCD Only		
Received by: Ramona M	Marcus	Date: 1/6/2022
Received by:		Date:

Received by OCD: 6/24/2022 9:40:38-A

L48 Spill Volume Estimate Form

9	E40 Opin Volume Estimate Form					
Received by OC.	D: 1/6/2022	12:28:58 PM ame & Number:	Macho State 2 Batter	у		Page 3 of &
<i>P</i> /		Asset Area:	DBE		NAPP22006	
4		Release Discovery Date & Time:	12/21/2021			
		Release Type:	Oil			
	Provide a	ny known details about the event:	High level at inlet sep	perator		
				Spill Calculation - Subs	urface Spill - Rectangle	
	Wa	as the release on pad or off-pad?			See reference table	e below
Ha	s it rained at leas	st a half inch in the last 24 hours?			See reference table	e below
Convert Irregular shape nto 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	162.1	22.1	0.10	12.60%	5.314	0.670
Rectangle B	151.3	22.1	0.10	12.60%	4.960	0.625
Rectangle C					0.000	0.000
Rectangle D					0.000	0.000
Rectangle E					0.000	0.000
Rectangle F					0.000	0.000
Rectangle G					0.000	0.000
Rectangle H					0.000	0.000
Rectangle I					0.000	0.000
Released to Ima	ging: 1/6/20	22 3:58:31 PM			0.000	0.000
					Total Volume Release:	1.294

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 70866

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	70866
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	By Condition	Condition Date
rmarcı	None None	1/6/2022

	Page 152 of 15	5
Incident ID	NAPP2200644754	
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?	<50 (ft bgs)		
Did this release impact groundwater or surface water?			
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?			
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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil		
Characterization Report Checklist: Each of the following items must be included in the report.			
 \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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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:Charles Beauvais	Title:Senior Environmental Engineer			
Signature: Charles R. Beauvais 99	Date:06/15/2022			
email:Charles.R.Beauvais@conocophillips.com	Telephone:575-988-2043			
OCD Only				
Received by:	Date:			

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Incident ID	NAPP2200644754
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Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC			
Note: Appropriate OCD District office must be notified 2 days prior to liner inspection) Note: Appropriate OCD District office must be notified 2 days prior to liner inspection)				
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)			
Description of remediation activities				
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nations. The responsible party acknowledges they must substantially anditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete. Title:Senior Environmental Engineer Date:06/15/2022			
OCD Only				
Received by:	Date:			
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.			
Closure Approved by:	Date: 07/06/2022			
Printed Name: Jennifer Nobui	Title: _ Environmental Specialist A			

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 120272

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	120272
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	7/6/2022