

WSP USA

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

March 25, 2022

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

RE: Closure Request
MCA 372
Incident Number NAPP2201143682
Lea County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of ConocoPhillips Company (COP), presents the following Closure Request detailing site assessment, excavation, and soil sampling activities at the MCA 372 (Site) located in Unit M, Section 21, Township 17 South, Range 32 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following a release of crude oil and produced water onto the lease road at the Site. Based on the excavation activities completed and soil sample analytical results, COP is submitting this Closure Request and requesting no further action (NFA) for Incident Number NAPP2201143682.

RELEASE BACKGROUND

On January 2, 2022, corrosion of a flowline resulted in the release of approximately 6.9 barrels (bbls) of produced water and 0.2 bbls of crude oil onto the lease road and adjacent pasture. A vacuum truck was dispatched to the Site but there were no free-standing fluids to recover. COP reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on January 18, 2022. The release was assigned Incident Number NAPP2201143682.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be between 50-100 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well RA-12521-POD1, located approximately 0.4 miles southeast of the Site. The groundwater well has a reported depth to groundwater of 92 feet bgs and a total depth of 105 feet bgs. All wells



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used for depth to groundwater determination are depicted on Figure 1 and the associated referenced well records are included in Attachment 1.

The closest continuously flowing water or significant watercourse to the Site is a freshwater pond, located approximately 1,962 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

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

SITE ASSESSMENT AND EXCAVATION ACTIVITIES

On March 9, 2022, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected twelve preliminary assessment soil samples (SS01 through SS12) within the release extent from a depth of 0.25 feet bgs to assess the lateral extent of impacted soil. Soil from the preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2.

Field screening results for preliminary soil samples SS01 through SS12 indicated that chloride concentrations were elevated within the release extent. Based on visible staining in the release area and field screening results for the preliminary soil samples, excavation activities were warranted.

On March 18, 2022, WSP personnel returned to the Site to oversee excavation activities as indicated by surficial staining in the release footprint and field screening results for the



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preliminary soil samples. Excavation activities were performed using a backhoe and transport vehicle. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to an approximate depth of 1-foot bgs.

Following removal of impacted soil, WSP collected 5-point composite soil samples 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 floor samples FS01 through FS12 were collected from the floor of the excavation at a depth of 1-foot bgs. Due to the shallow depth of the excavation, the floor samples are also representative of the excavation sidewalls. The excavation extent and excavation soil sample locations are presented on Figure 2. Photographic documentation is included in Attachment 2.

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

The excavation area measured approximately 2,466 square feet. A total of approximately 91 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at R360 disposal facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was backfilled.

ANALYTICAL RESULTS

Laboratory analytical results for excavation floor samples FS01 through FS12, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 3.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the January 2, 2022 release of crude oil and produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. Based on the soil sample



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analytical results, no further remediation was required. COP backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions.

Excavation of impacted soil has mitigated impacts at the Site. Depth to groundwater is estimated to be between 50-100 feet bgs and no other sensitive receptors were identified near the release extent. WSP and COP believe these remedial actions are protective of human health, the environment, and groundwater. As such, COP respectfully requests no further action for Incident Number NAPP2201143682. The final Form C-141 is included in Attachment 4.

Sincerely,

WSP USA Inc.

Hadlie Green

Gladie Green

Assistant Consultant, Geologist

Aimee Cole

Sinée Cale

Sr. Consultant, Environmental Scientist

cc: Rahul Kaushik, ConocoPhillips Company

Attachments:

Figure 1 Site Location Map

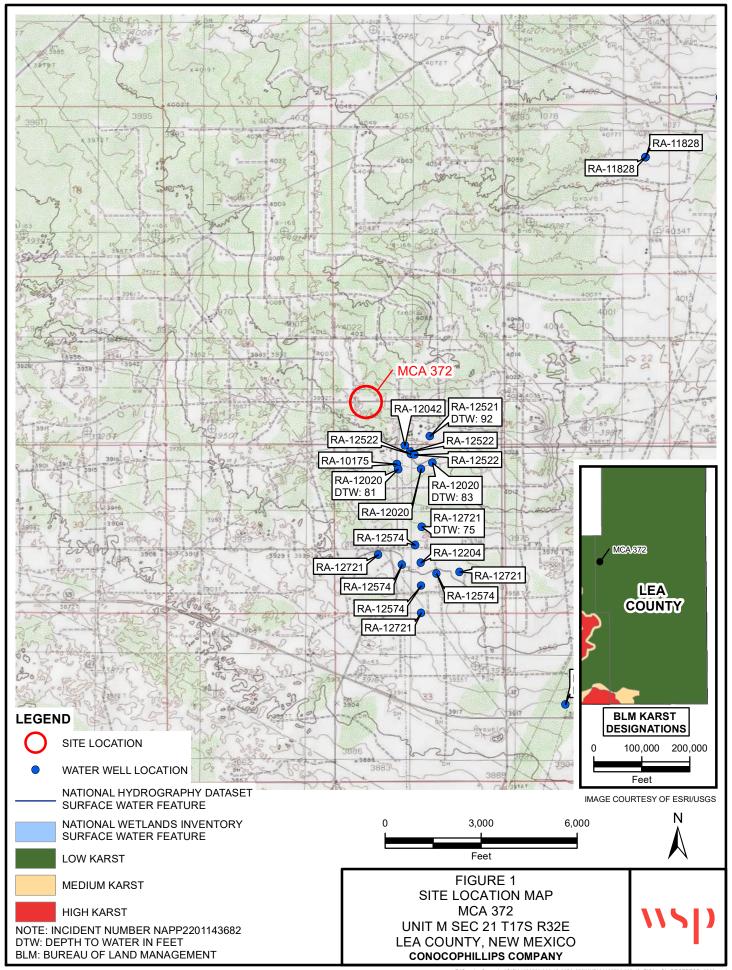
Figure 2 Excavation Soil Sample Locations

Table 1 Soil Analytical Results
Attachment 1 Referenced Well Record

Attachment 2 Photographic Log

Attachment 3 Laboratory Analytical Reports

Attachment 4 Final C-141



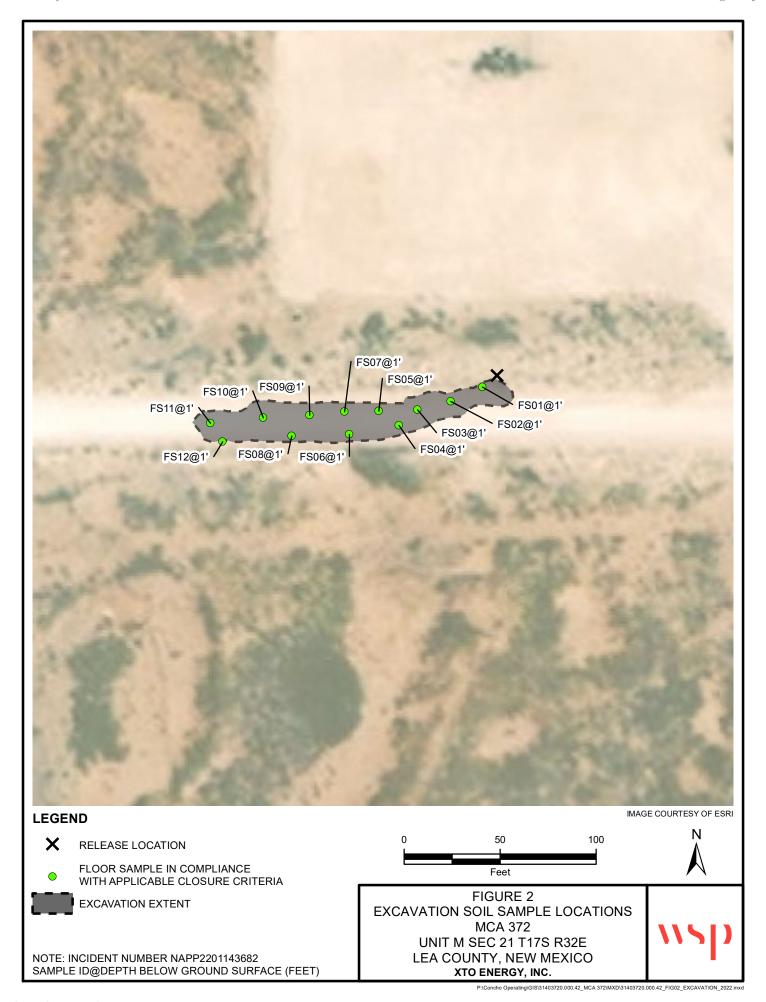


Table 1

Soil Analytical Results MCA 372

Incident Number NAPP2201143682 Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
Excavation Floor San	mples									
FS01	03/18/2022	1	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	< 50.0	94.8
FS02	03/18/2022	1	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	68.7
FS03	03/18/2022	1	< 0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	< 50.0	69.4
FS04	03/18/2022	1	< 0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	< 50.0	33.8
FS05	03/18/2022	1	< 0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	162
FS06	03/18/2022	1	< 0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	< 50.0	52.1
FS07	03/18/2022	1	< 0.00200	<0.00401	72.3	<50.0	<50.0	72.3	72.3	159
FS08	03/18/2022	1	< 0.00199	<0.00398	82.7	<50.0	<50.0	82.7	82.7	167
FS09	03/18/2022	1	< 0.00201	<0.00402	43.3	<49.9	<49.9	43.3	43.3	191
FS10	03/18/2022	1	< 0.00202	<0.00404	73.7	<49.9	<49.9	73.7	73.7	228
FS11	03/18/2022	1	< 0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	224
FS12	03/18/2022	1	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	122

Notes:

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

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



New Mexico Office of the State Engineer

Water Right Summary

WR File Number: RA 12521

Subbasin: RA

Cross Reference: -

Primary Purpose: MON

MONITORING WELL

Primary Status:

PMT **PERMIT**

Total Acres:

Subfile:

Header: -

Total Diversion:

Cause/Case: -

Owner:

PHILLIPS 66

Contact:

File/Act

BECKY HESSLEN

Documents on File

Status

From/

Transaction Desc.

To

Diversion Consumptive

PMT LOG RA 12521 POD1

Τ

0 0

Current Points of Diversion

Trn#

Q

(NAD83 UTM in meters)

POD Number

Well Tag Source 64Q16Q4Sec Tws Rng

Other Location Desc

RA 12521 POD1

Shallow 3 3 4 21 17S 32E

615127

3631271

MW-24

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

RA 12521 POD1

21 17S 32E

615127

3631271

Driller License: 1456

Driller Company:

WHITE DRILLING COMPANY

Driller Name:

WHITE, JOHN W

Drill Start Date:

07/21/2017

Drill Finish Date:

07/26/2017

Plug Date:

Log File Date:

08/22/2017

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

2.00

Depth Well:

105 feet

Depth Water:

92 feet

Water Bearing Stratifications:

Top Bottom Description

101 Sandstone/Gravel/Conglomerate

85 101

105 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

75 105

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2/23/22 12:36 PM

POINT OF DIVERSION SUMMARY



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National Water Information System: Web Interface

USGS Water Resources (Cooperator Access)

Data Category:		Geographic Area:		
Site Information	~	United States	~	GO

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- Full News

USGS 324954103420301 17S.33E.18.322332

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

Well Site

DESCRIPTION:

Latitude 32°49'59", Longitude 103°42'15" NAD27 Lea County, New Mexico , Hydrologic Unit 13060011

Well depth: 220 feet

Land surface altitude: 4,224.00 feet above NGVD29.

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

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

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1961-03-13	1986-03-26	4
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

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

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

Accessibility

FOIA

Privacy

Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: NWIS Site Information for USA: Site Inventory

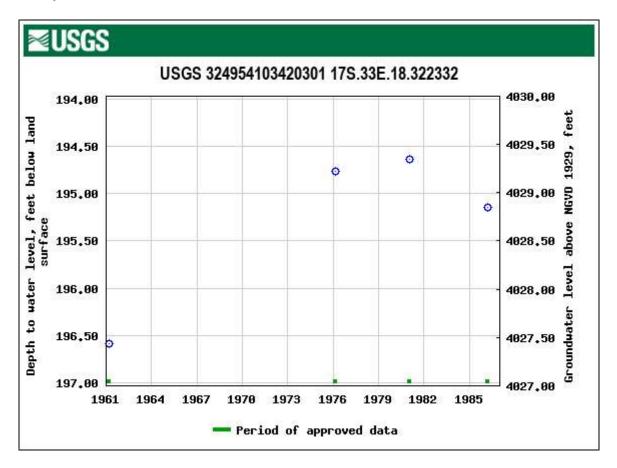
URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=324954103420301

Page Contact Information: New Mexico Water Data Support Team

Page Last Modified: 2022-02-23 14:15:33 EST

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	PHOTOGRAPHIC LOG	
ConocoPhillips	MCA 372	NAPP2201143682
Company	Lea County, New Mexico	

Photo No. Date
1 March 9, 2022
Photo taken during initial site

assessment of release extent.



Photo No.	Date
2	March 9, 2022
Photo taken di	uring initial site

Photo taken during initial site assessment of release extent.





	PHOTOGRAPHIC LOG	
ConocoPhillips	MCA 372	NAPP2201143682
Company	Lea County, New Mexico	

March 18, 2022 Photo of excavation completed.	
Photo of excavation completed.	ENOTE.
	A STATE OF THE STA

Photo No.	Date
4	March 18, 2022
Photo of excava	ation completed.





Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2113-1

Laboratory Sample Delivery Group: 31403720.000 TASK 42.02

Client Project/Site: MCA 372

For:

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

Attn: Kalei Jennings

MRAMER

Authorized for release by: 3/23/2022 3:02:44 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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Released to Imaging: 4/25/2022 4:02:50 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: MCA 372

Labor
SDG: 31

Laboratory Job ID: 890-2113-1 SDG: 31403720.000 TASK 42.02

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-2113-1 Project/Site: MCA 372 SDG: 31403720.000 TASK 42.02

Qualifiers

GC VOA Qualifier

Qualifier Description LCS/LCSD RPD exceeds control limits. F1 MS and/or MSD recovery exceeds control limits. S1-Surrogate recovery exceeds control limits, low biased. U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit 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

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

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

Case Narrative

 Client: WSP USA Inc.
 Job ID: 890-2113-1

 Project/Site: MCA 372
 SDG: 31403720.000 TASK 42.02

Job ID: 890-2113-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2113-1

Receipt

The samples were received on 3/21/2022 8:08 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-22009 and analytical batch 880-22109 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 880-21824 and analytical batch 880-22110 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 sample was outside control limits: (LCSD 880-22118/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

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Lab Sample ID: 890-2113-1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2113-1 Project/Site: MCA 372 SDG: 31403720.000 TASK 42.02

Client Sample ID: FS01

Date Collected: 03/18/22 13:55 Date Received: 03/21/22 08:08

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/22/22 07:30	03/22/22 14:14	
Toluene	< 0.00199	U	0.00199	mg/Kg		03/22/22 07:30	03/22/22 14:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/22/22 07:30	03/22/22 14:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/22/22 07:30	03/22/22 14:14	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/22/22 07:30	03/22/22 14:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/22/22 07:30	03/22/22 14:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/22/22 07:30	03/22/22 14:14	1
1,4-Difluorobenzene (Surr)	109		70 - 130			03/22/22 07:30	03/22/22 14:14	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			03/22/22 16:45	1
Total TPH			50.0	mg/Kg		Frepared	03/23/22 12:18	DII Fac
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
-	00.0		55.5	99			00/20/22 12:10	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/22/22 08:37	03/22/22 14:08	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/22/22 08:37	03/22/22 14:08	1
C10-C28)	-50.0		50.0			00/00/00 00 07	00/00/00 44 00	
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/22/22 08:37	03/22/22 14:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			03/22/22 08:37	03/22/22 14:08	
								1
	107		70 - 130			03/22/22 08:37	03/22/22 14:08	
o-Terphenyl Method: 300.0 - Anions, Ion Chro	omatography -					03/22/22 08:37	03/22/22 14:08	•
o-Terphenyl	omatography -	Soluble Qualifier	70 - 130 RL 4.98	Unit	<u>D</u>	03/22/22 08:37 Prepared	03/22/22 14:08 Analyzed	1 1 Dil Fac

Client Sample ID: FS02 Lab Sample ID: 890-2113-2 Matrix: Solid

Date Collected: 03/18/22 09:55 Date Received: 03/21/22 08:08

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/22/22 07:30	03/22/22 14:35	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/22/22 07:30	03/22/22 14:35	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/22/22 07:30	03/22/22 14:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/22/22 07:30	03/22/22 14:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/22/22 07:30	03/22/22 14:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/22/22 07:30	03/22/22 14:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			03/22/22 07:30	03/22/22 14:35	1

Client: WSP USA Inc. Job ID: 890-2113-1 SDG: 31403720.000 TASK 42.02

Project/Site: MCA 372

Client Sample ID: FS02 Lab Sample ID: 890-2113-2 Date Collected: 03/18/22 09:55 Matrix: Solid Date Received: 03/21/22 08:08

Sample Depth: 1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	109		70 - 130			03/22/22 07:30	03/22/22 14:35	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			03/22/22 16:45	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			03/23/22 12:18	1
=								
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Method: 8015B NM - Diesel Rang Analyte	• • •	RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	• • •	Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 03/22/22 08:37	Analyzed 03/22/22 14:28	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	03/22/22 08:37	03/22/22 14:28	Dil Fac 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	03/22/22 08:37	03/22/22 14:28	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U	49.9 49.9 49.9	mg/Kg	<u>D</u>	03/22/22 08:37 03/22/22 08:37 03/22/22 08:37	03/22/22 14:28 03/22/22 14:28 03/22/22 14:28	1

Client Sample ID: FS03 Lab Sample ID: 890-2113-3 Date Collected: 03/18/22 10:30

RL

4.99

Unit

mg/Kg

Result Qualifier

68.7

Date Received: 03/21/22 08:08

Released to Imaging: 4/25/2022 4:02:50 PM

Method: 300.0 - Anions, Ion Chromatography - Soluble

Sample Depth: 1

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/22/22 07:30	03/22/22 14:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/22/22 07:30	03/22/22 14:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/22/22 07:30	03/22/22 14:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/22/22 07:30	03/22/22 14:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/22/22 07:30	03/22/22 14:55	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/22/22 07:30	03/22/22 14:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			03/22/22 07:30	03/22/22 14:55	1
1,4-Difluorobenzene (Surr)	109		70 - 130			03/22/22 07:30	03/22/22 14:55	1
Method: Total BTEX - Total B1	TEX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/22/22 16:45	1
Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	<50.0	U	50.0	mg/Kg			03/23/22 12:18	

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Matrix: Solid

Dil Fac

Analyzed

03/22/22 17:36

Prepared

D

Lab Sample ID: 890-2113-3

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2113-1 Project/Site: MCA 372 SDG: 31403720.000 TASK 42.02

Client Sample ID: FS03

Date Collected: 03/18/22 10:30 Date Received: 03/21/22 08:08

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0		50.0	mg/Kg	— <u>-</u>	03/22/22 08:37	03/22/22 14:48	1
(GRO)-C6-C10	\30.0	O	30.0	mg/Kg		03/22/22 00.37	03/22/22 14.40	ļ
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/22/22 08:37	03/22/22 14:48	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/22/22 08:37	03/22/22 14:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			03/22/22 08:37	03/22/22 14:48	1
o-Terphenyl	88		70 - 130			03/22/22 08:37	03/22/22 14:48	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.4	•	5.00	mg/Kg			03/22/22 17:45	

Lab Sample ID: 890-2113-4 **Client Sample ID: FS04** Matrix: Solid

Date Collected: 03/18/22 10:35 Date Received: 03/21/22 08:08

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/22/22 08:30	03/22/22 14:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/22/22 08:30	03/22/22 14:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/22/22 08:30	03/22/22 14:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/22/22 08:30	03/22/22 14:15	1
o-Xylene	<0.00200	U *1	0.00200	mg/Kg		03/22/22 08:30	03/22/22 14:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/22/22 08:30	03/22/22 14:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			03/22/22 08:30	03/22/22 14:15	1
1,4-Difluorobenzene (Surr)	92		70 - 130			03/22/22 08:30	03/22/22 14:15	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			03/22/22 16:45	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			03/23/22 12:18	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		03/22/22 08:37	03/22/22 15:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/22/22 08:37	03/22/22 15:08	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/22/22 08:37	03/22/22 15:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			03/22/22 08:37	03/22/22 15:08	1

Lab Sample ID: 890-2113-4

Job ID: 890-2113-1

Client: WSP USA Inc. Project/Site: MCA 372 SDG: 31403720.000 TASK 42.02

Client Sample ID: FS04

Date Collected: 03/18/22 10:35 Date Received: 03/21/22 08:08

Sample Depth: 1

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.8		4.98	mg/Kg			03/22/22 18:12	1

Client Sample ID: FS05 Lab Sample ID: 890-2113-5 Matrix: Solid

Date Collected: 03/18/22 10:40

Date Received: 03/21/22 08:08

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/22/22 08:30	03/22/22 14:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/22/22 08:30	03/22/22 14:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/22/22 08:30	03/22/22 14:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/22/22 08:30	03/22/22 14:35	1
o-Xylene	<0.00200	U *1	0.00200	mg/Kg		03/22/22 08:30	03/22/22 14:35	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/22/22 08:30	03/22/22 14:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/22/22 08:30	03/22/22 14:35	1
1,4-Difluorobenzene (Surr)	103		70 - 130			03/22/22 08:30	03/22/22 14:35	1
Method: Total BTEX - Total BTE)	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/22/22 16:45	1
Method: 8015 NM - Diesel Range Analyte Total TPH	•	Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/23/22 12:18	Dil Fac
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		03/22/22 08:37	03/22/22 15:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/22/22 08:37	03/22/22 15:28	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/22/22 08:37	03/22/22 15:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			03/22/22 08:37	03/22/22 15:28	1
o-Terphenyl	104		70 - 130			03/22/22 08:37	03/22/22 15:28	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2113-1

 Project/Site: MCA 372
 SDG: 31403720.000 TASK 42.02

Client Sample ID: FS06

Lab Sample ID: 890-2113-6

Date Collected: 03/18/22 11:20
Date Received: 03/21/22 08:08

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/22/22 08:30	03/22/22 14:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/22/22 08:30	03/22/22 14:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/22/22 08:30	03/22/22 14:56	1
m-Xylene & p-Xylene	< 0.00399	U	0.00399	mg/Kg		03/22/22 08:30	03/22/22 14:56	1
o-Xylene	<0.00200	U *1	0.00200	mg/Kg		03/22/22 08:30	03/22/22 14:56	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/22/22 08:30	03/22/22 14:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			03/22/22 08:30	03/22/22 14:56	1
1,4-Difluorobenzene (Surr)	97		70 - 130			03/22/22 08:30	03/22/22 14:56	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			03/22/22 16:45	1
Method: 8015 NM - Diesel Range	Organics (DR)	O) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/23/22 12:18	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		03/22/22 08:37	03/22/22 15:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/22/22 08:37	03/22/22 15:49	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/22/22 08:37	03/22/22 15:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			03/22/22 08:37	03/22/22 15:49	1
o-Terphenyl	87		70 - 130			03/22/22 08:37	03/22/22 15:49	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
method: 000.0 - Amons, for one								
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS07 Lab Sample ID: 890-2113-7

Date Collected: 03/18/22 12:30 Date Received: 03/21/22 08:08

Released to Imaging: 4/25/2022 4:02:50 PM

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/22/22 08:30	03/22/22 15:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/22/22 08:30	03/22/22 15:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/22/22 08:30	03/22/22 15:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/22/22 08:30	03/22/22 15:16	1
o-Xylene	<0.00200	U *1	0.00200	mg/Kg		03/22/22 08:30	03/22/22 15:16	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/22/22 08:30	03/22/22 15:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/22/22 08:30	03/22/22 15:16	1

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Matrix: Solid

3

6

8

10

46

13

Lab Sample ID: 890-2113-7

Client: WSP USA Inc. Job ID: 890-2113-1

Project/Site: MCA 372 SDG: 31403720.000 TASK 42.02

Client Sample ID: FS07

Date Collected: 03/18/22 12:30 Date Received: 03/21/22 08:08

Sample Depth: 1

Method: 8021B - Volatile Organic Compo	ounds (GC)	(Continued)
motification to a gaine compa	Julius (33)	(Continuou,

Surrogate	%Recovery Quali	lifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90	70 - 130	03/22/22 08:30	03/22/22 15:16	1

Method:	Total BT	FX - Tota	al BTFX	Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401 U	0.00401	ma/Ka			03/22/22 16:45	1

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

Analyte	Result Q	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	72.3	50.0	mg/Kg			03/23/22 12:18	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/22/22 08:40	03/22/22 14:08	1
Diesel Range Organics (Over C10-C28)	72.3		50.0	mg/Kg		03/22/22 08:40	03/22/22 14:08	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/22/22 08:40	03/22/22 14:08	1
Surrements	9/ D anayamı	Ovalifian	l imita			Duamanad	Amalumad	Dil 5

Surrogate	%Recovery Quali	ifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90	70 - 130	03/22/22 08:40	03/22/22 14:08	1
o-Terphenyl	84	70 - 130	03/22/22 08:40	03/22/22 14:08	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	159		4.98	mg/Kg			03/22/22 18:38	1

Client Sample ID: FS08 Lab Sample ID: 890-2113-8

Date Collected: 03/18/22 12:35 Date Received: 03/21/22 08:08

Sample Depth: 1

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

Michiga ouz ib - Volatile Orga	inc compounds ((30)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/22/22 08:30	03/22/22 15:37	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/22/22 08:30	03/22/22 15:37	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/22/22 08:30	03/22/22 15:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/22/22 08:30	03/22/22 15:37	1
o-Xylene	<0.00199	U *1	0.00199	mg/Kg		03/22/22 08:30	03/22/22 15:37	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/22/22 08:30	03/22/22 15:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			03/22/22 08:30	03/22/22 15:37	1
1,4-Difluorobenzene (Surr)	99		70 - 130			03/22/22 08:30	03/22/22 15:37	1

Mothod:	Total RT	EY - Tota	I DTEY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	ma/Ka			03/22/22 16:45	1

Method. 0013 MM - Dieser Kange Organics (DRO) (GC)	Method: 8015 NM - Die	esel Range C	Organics (DRO)	(GC)
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Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	82.7	50.0	mg/Kg			03/23/22 12:18	1

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Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2113-1 Project/Site: MCA 372 SDG: 31403720.000 TASK 42.02

Client Sample ID: FS08 Lab Sample ID: 890-2113-8

Date Collected: 03/18/22 12:35 Matrix: Solid Date Received: 03/21/22 08:08

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/22/22 08:40	03/22/22 14:28	1
Diesel Range Organics (Over C10-C28)	82.7		50.0	mg/Kg		03/22/22 08:40	03/22/22 14:28	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/22/22 08:40	03/22/22 14:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			03/22/22 08:40	03/22/22 14:28	1
o-Terphenyl	83		70 - 130			03/22/22 08:40	03/22/22 14:28	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	INL	Onit		ricparca	Allalyzea	Diriac

Lab Sample ID: 890-2113-9 **Client Sample ID: FS09** Matrix: Solid

Date Collected: 03/18/22 12:40 Date Received: 03/21/22 08:08

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/22/22 08:30	03/22/22 15:57	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/22/22 08:30	03/22/22 15:57	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/22/22 08:30	03/22/22 15:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/22/22 08:30	03/22/22 15:57	1
o-Xylene	<0.00201	U *1	0.00201	mg/Kg		03/22/22 08:30	03/22/22 15:57	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/22/22 08:30	03/22/22 15:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			03/22/22 08:30	03/22/22 15:57	1
1,4-Difluorobenzene (Surr)	103		70 - 130			03/22/22 08:30	03/22/22 15:57	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/22/22 16:45	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	43.3		49.9	mg/Kg			03/23/22 12:18	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	<49.9	U	49.9	mg/Kg		03/22/22 08:40	03/22/22 14:48	1
Diesel Range Organics (Over C10-C28)	43.3		49.9	mg/Kg		03/22/22 08:40	03/22/22 14:48	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/22/22 08:40	03/22/22 14:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			03/22/22 08:40	03/22/22 14:48	1
o-Terphenyl	99		70 - 130			03/22/22 08:40	03/22/22 14:48	1

Job ID: 890-2113-1

Client: WSP USA Inc. Project/Site: MCA 372 SDG: 31403720.000 TASK 42.02

Client Sample ID: FS09 Lab Sample ID: 890-2113-9

Date Collected: 03/18/22 12:40 Matrix: Solid Date Received: 03/21/22 08:08

Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	191		4.99	mg/Kg			03/22/22 19:14	1

Client Sample ID: FS10 Lab Sample ID: 890-2113-10 Matrix: Solid

Date Collected: 03/18/22 13:40 Date Received: 03/21/22 08:08

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/22/22 08:30	03/22/22 16:17	
Toluene	<0.00202	U	0.00202	mg/Kg		03/22/22 08:30	03/22/22 16:17	•
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/22/22 08:30	03/22/22 16:17	•
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/22/22 08:30	03/22/22 16:17	
o-Xylene	<0.00202	U *1	0.00202	mg/Kg		03/22/22 08:30	03/22/22 16:17	
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/22/22 08:30	03/22/22 16:17	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			03/22/22 08:30	03/22/22 16:17	1
1,4-Difluorobenzene (Surr)	103		70 - 130			03/22/22 08:30	03/22/22 16:17	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			03/22/22 16:45	1
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	73.7		49.9	mg/Kg			03/23/22 12:18	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/22/22 08:40	03/22/22 15:08	1
Diesel Range Organics (Over C10-C28)	73.7		49.9	mg/Kg		03/22/22 08:40	03/22/22 15:08	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/22/22 08:40	03/22/22 15:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			03/22/22 08:40	03/22/22 15:08	1
o-Terphenyl	93		70 - 130			03/22/22 08:40	03/22/22 15:08	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-2113-11

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2113-1

 Project/Site: MCA 372
 SDG: 31403720.000 TASK 42.02

Client Sample ID: FS11

Date Collected: 03/18/22 13:50 Date Received: 03/21/22 08:08

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/22/22 08:30	03/22/22 16:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/22/22 08:30	03/22/22 16:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/22/22 08:30	03/22/22 16:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/22/22 08:30	03/22/22 16:38	1
o-Xylene	<0.00200	U *1	0.00200	mg/Kg		03/22/22 08:30	03/22/22 16:38	•
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/22/22 08:30	03/22/22 16:38	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130			03/22/22 08:30	03/22/22 16:38	
1,4-Difluorobenzene (Surr)	105		70 - 130			03/22/22 08:30	03/22/22 16:38	•
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			03/22/22 16:45	
Method: 8015 NM - Diesel Range			RI	Unit	n	Prepared	Analyzed	Dil Fa
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
		Qualifier	RL 50.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/23/22 12:18	
Analyte		Qualifier U			<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0	Qualifier U			<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0	mg/Kg			03/23/22 12:18	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 03/22/22 08:40	03/23/22 12:18 Analyzed 03/22/22 15:28	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U	50.0	mg/Kg		Prepared	03/23/22 12:18 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 03/22/22 08:40	03/23/22 12:18 Analyzed 03/22/22 15:28	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/22/22 08:40 03/22/22 08:40	03/23/22 12:18 Analyzed 03/22/22 15:28 03/22/22 15:28	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/22/22 08:40 03/22/22 08:40 03/22/22 08:40	03/23/22 12:18 Analyzed 03/22/22 15:28 03/22/22 15:28	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/22/22 08:40 03/22/22 08:40 03/22/22 08:40 Prepared	03/23/22 12:18 Analyzed 03/22/22 15:28 03/22/22 15:28 03/22/22 15:28 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/22/22 08:40 03/22/22 08:40 03/22/22 08:40 Prepared 03/22/22 08:40	03/23/22 12:18 Analyzed 03/22/22 15:28 03/22/22 15:28 Analyzed 03/22/22 15:28	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/22/22 08:40 03/22/22 08:40 03/22/22 08:40 Prepared 03/22/22 08:40	03/23/22 12:18 Analyzed 03/22/22 15:28 03/22/22 15:28 Analyzed 03/22/22 15:28	Dil Fac

Client Sample ID: FS12

Date Collected: 03/18/22 13:55 Date Received: 03/21/22 08:08

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/22/22 08:30	03/22/22 16:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/22/22 08:30	03/22/22 16:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/22/22 08:30	03/22/22 16:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/22/22 08:30	03/22/22 16:58	1
o-Xylene	<0.00199	U *1	0.00199	mg/Kg		03/22/22 08:30	03/22/22 16:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/22/22 08:30	03/22/22 16:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/22/22 08:30	03/22/22 16:58	1

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Lab Sample ID: 890-2113-12

Matrix: Solid

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Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2113-1

 Project/Site: MCA 372
 SDG: 31403720.000 TASK 42.02

Client Sample ID: FS12

Lab Sample ID: 890-2113-12

Date Collected: 03/18/22 13:55 Date Received: 03/21/22 08:08

Sample Depth: 1

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130			03/22/22 08:30	03/22/22 16:58	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			03/22/22 16:45	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			03/23/22 12:18	1
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang	ge Organics (Di	RO) (GC)						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/22/22 08:40	03/22/22 15:49	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/22/22 08:40	03/22/22 15:49	1
C10-C28)				99				
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/22/22 08:40	03/22/22 15:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			03/22/22 08:40	03/22/22 15:49	1
o-Terphenyl	92		70 - 130			03/22/22 08:40	03/22/22 15:49	1
o respirenti								
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						

4.99

mg/Kg

122

03/22/22 19:40

Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-2113-1

 Project/Site: MCA 372
 SDG: 31403720.000 TASK 42.02

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)	
880-12580-A-1-J MS	Matrix Spike	104	113	
880-12580-A-1-K MSD	Matrix Spike Duplicate	105	111	
880-12580-A-2-F MS	Matrix Spike	107	100	
880-12580-A-2-G MSD	Matrix Spike Duplicate	115	101	
890-2113-1	FS01	105	109	
890-2113-2	FS02	102	109	
890-2113-3	FS03	104	109	
890-2113-4	FS04	99	92	
890-2113-5	FS05	111	103	
890-2113-6	FS06	123	97	
890-2113-7	FS07	110	90	
890-2113-8	FS08	115	99	
890-2113-9	FS09	107	103	
890-2113-10	FS10	113	103	
890-2113-11	FS11	110	105	
890-2113-12	FS12	119	95	
LCS 880-21824/1-A	Lab Control Sample	66 S1-	82	
LCS 880-22009/1-A	Lab Control Sample	102	111	
LCSD 880-21824/2-A	Lab Control Sample Dup	98	101	
LCSD 880-22009/2-A	Lab Control Sample Dup	101	110	
MB 880-21824/5-A	Method Blank	97	100	
MB 880-22009/5-A	Method Blank	101	104	

BFB = 4-Bromofluorobenzene (Surr)

 $\mathsf{DFBZ} = \mathsf{1,4-Difluorobenzene} \; (\mathsf{Surr})$

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptar
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12698-A-1-D MS	Matrix Spike	99	90	
880-12698-A-1-E MSD	Matrix Spike Duplicate	99	90	
880-12699-A-1-D MS	Matrix Spike	108	88	
380-12699-A-1-E MSD	Matrix Spike Duplicate	93	76	
390-2113-1	FS01	110	107	
890-2113-2	FS02	103	101	
390-2113-3	FS03	91	88	
890-2113-4	FS04	93	93	
390-2113-5	FS05	105	104	
390-2113-6	FS06	89	87	
390-2113-7	FS07	90	84	
390-2113-8	FS08	92	83	
390-2113-9	FS09	108	99	
390-2113-10	FS10	100	93	
390-2113-11	FS11	93	90	
390-2113-12	FS12	95	92	
LCS 880-22118/2-A	Lab Control Sample	108	113	

OTPH = o-Terphenyl

Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-2113-1

 Project/Site: MCA 372
 SDG: 31403720.000 TASK 42.02

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-22119/2-A	Lab Control Sample	121	114	
LCSD 880-22118/3-A	Lab Control Sample Dup	125	133 S1+	
LCSD 880-22119/3-A	Lab Control Sample Dup	120	111	
MB 880-22118/1-A	Method Blank	93	98	
MB 880-22119/1-A	Method Blank	107	112	
Surrogate Legend				
1CO = 1-Chlorooctane				

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Client: WSP USA Inc. Job ID: 890-2113-1 SDG: 31403720.000 TASK 42.02 Project/Site: MCA 372

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21824/5-A

Matrix: Solid Analysis Batch: 22110 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21824

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/22/22 08:30	03/22/22 11:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/22/22 08:30	03/22/22 11:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/22/22 08:30	03/22/22 11:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/22/22 08:30	03/22/22 11:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/22/22 08:30	03/22/22 11:48	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/22/22 08:30	03/22/22 11:48	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	l Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	03/22/22 08	:30 03/22/22 11:48	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/22/22 08	:30 03/22/22 11:48	1

Lab Sample ID: LCS 880-21824/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 22110

Prep Type: Total/NA

Prep Batch: 21824

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09232 mg/Kg 92 70 - 130 71 Toluene 0.100 0.07065 mg/Kg 70 - 130 0.100 0.07639 76 70 - 130 Ethylbenzene mg/Kg m-Xylene & p-Xylene 0.200 0.1613 81 70 - 130 mg/Kg 0.100 0.07659 70 - 130 o-Xylene mg/Kg 77

LCS LCS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130		
1,4-Difluorobenzene (Surr)	82		70 - 130		

Lab Sample ID: LCSD 880-21824/2-A

Matrix: Solid

Analysis Batch: 22110

Prep Type: Total/NA

Prep Batch: 21824

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09025		mg/Kg		90	70 - 130	2	35	
Toluene	0.100	0.09279		mg/Kg		93	70 - 130	27	35	
Ethylbenzene	0.100	0.09629		mg/Kg		96	70 - 130	23	35	
m-Xylene & p-Xylene	0.200	0.2262		mg/Kg		113	70 - 130	34	35	
o-Xylene	0.100	0.1104	*1	mg/Kg		110	70 - 130	36	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1.4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-12580-A-2-F MS

Matrix: Solid

Analysis Batch: 22110

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

Prep Batch: 21824

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U F1	0.101	0.05117	F1	mg/Kg	_	51	70 - 130	
Toluene	<0.00198	U F1	0.101	0.04128	F1	mg/Kg		40	70 - 130	

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2113-1 Project/Site: MCA 372 SDG: 31403720.000 TASK 42.02

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

Lab Sample ID: 880-12580-A-2-F MS

Matrix: Solid

Analysis Batch: 22110

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21824

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00198	U F1	0.101	0.02784	F1	mg/Kg		26	70 - 130	
m-Xylene & p-Xylene	<0.00396	U F1	0.202	0.06306	F1	mg/Kg		31	70 - 130	
o-Xylene	<0.00198	U F1 *1	0.101	0.03119	F1	mg/Kg		30	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 21824

Matrix: Solid Analysis Batch: 22110

Lab Sample ID: 880-12580-A-2-G MSD

Sample Sample Spike MSD MSD %Rec. Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit %Rec 0.0998 0.04373 F1 Benzene <0.00198 UF1 mg/Kg 44 70 - 130 16 35 Toluene 0.0998 0.03568 F1 70 - 130 <0.00198 UF1 mg/Kg 34 15 35 Ethylbenzene <0.00198 UF1 0.0998 0.02372 F1 mg/Kg 22 70 - 130 16 35 m-Xylene & p-Xylene 0.200 0.05318 F1 70 - 130 17 35 <0.00396 UF1 mg/Kg 0.0998 o-Xylene <0.00198 U F1 *1 0.02713 F1 26 70 - 130 mg/Kg 14 35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	115	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: MB 880-22009/5-A

Matrix: Solid

Analysis Batch: 22109

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/22/22 07:30	03/22/22 12:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/22/22 07:30	03/22/22 12:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/22/22 07:30	03/22/22 12:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/22/22 07:30	03/22/22 12:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/22/22 07:30	03/22/22 12:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/22/22 07:30	03/22/22 12:55	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/22/22 07:30	03/22/22 12:55	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/22/22 07:30	03/22/22 12:55	1

Lab Sample ID: LCS 880-22009/1-A

Matrix: Solid

Analysis Batch: 22109

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22009

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1000		mg/Kg		100	70 - 130	
Toluene	0.100	0.09951		mg/Kg		100	70 - 130	
Ethylbenzene	0.100	0.1020		mg/Kg		102	70 - 130	
m-Xylene & p-Xylene	0.200	0.2100		mg/Kg		105	70 - 130	

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Prep Batch: 22009

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2113-1 Project/Site: MCA 372 SDG: 31403720.000 TASK 42.02

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

Lab Sample ID: LCS 880-22009/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 22109** Prep Batch: 22009

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
o-Xylene	0.100	0.1026		mg/Kg		103	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-22009/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 22109** Prep Batch: 22009

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09667		mg/Kg		97	70 - 130	3	35
Toluene	0.100	0.09516		mg/Kg		95	70 - 130	4	35
Ethylbenzene	0.100	0.09655		mg/Kg		97	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1996		mg/Kg		100	70 - 130	5	35
o-Xylene	0.100	0.09811		mg/Kg		98	70 - 130	4	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

113

Lab Sample ID: 880-12580-A-1-J MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA Prep Batch: 22009 Analysis Batch: 22109

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U F1	0.0998	0.06350	F1	mg/Kg		64	70 - 130	
Toluene	<0.00198	U F1	0.0998	0.04705	F1	mg/Kg		47	70 - 130	
Ethylbenzene	<0.00198	U F1	0.0998	0.03427	F1	mg/Kg		34	70 - 130	
m-Xylene & p-Xylene	<0.00397	U F1	0.200	0.06798	F1	mg/Kg		33	70 - 130	
o-Xylene	<0.00198	U F1	0.0998	0.03381	F1	mg/Kg		33	70 - 130	

o-Xylene	<0.00198	U F1	0.0998	0.03381	F1	mg/Kg	33	70 -
	MS	MS						
Surrogate	%Recovery	Qualifier	Limits					
4-Bromofluorobenzene (Surr)	104		70 - 130					

70 - 130

Lab Sample ID: 880-12580-A-1-K MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 22109** Prep Batch: 22009

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U F1	0.0990	0.05763	F1	mg/Kg		58	70 - 130	10	35
Toluene	<0.00198	U F1	0.0990	0.05221	F1	mg/Kg		52	70 - 130	10	35
Ethylbenzene	<0.00198	U F1	0.0990	0.04620	F1	mg/Kg		46	70 - 130	30	35
m-Xylene & p-Xylene	<0.00397	U F1	0.198	0.09579	F1	mg/Kg		48	70 - 130	34	35
o-Xylene	<0.00198	U F1	0.0990	0.04725	F1	mg/Kg		47	70 - 130	33	35

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1,4-Difluorobenzene (Surr)

Client: WSP USA Inc. Job ID: 890-2113-1 Project/Site: MCA 372 SDG: 31403720.000 TASK 42.02

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

Lab Sample ID: 880-12580-A-1-K MSD

Matrix: Solid

Analysis Batch: 22109

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 22009

MSD MSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 105 70 - 130 1,4-Difluorobenzene (Surr) 111 70 - 130

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

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

Matrix: Solid

Analysis Batch: 22112

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22118

Analyte	Result	Qu

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/22/22 08:37	03/22/22 10:58	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/22/22 08:37	03/22/22 10:58	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/22/22 08:37	03/22/22 10:58	1

MB MB

MB MB

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

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

Matrix: Solid

Analysis Batch: 22112

Client Sample ID: La	b Control Sample
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Prep Type: Total/NA

Prep Batch: 22118

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

LCS LCS

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

Lab Sample ID: LCSD 880-22118/3-A

Matrix: Solid

Analysis Batch: 22112

Client Sample	ID: Lab	Control	Sample	Dup
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Prep Type: Total/NA Prep Batch: 22118

LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits Limit Gasoline Range Organics 1000 1058 106 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1284 mg/Kg 128 70 - 130 15 20 C10-C28)

LCSD LCSD

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

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-2113-1 Project/Site: MCA 372 SDG: 31403720.000 TASK 42.02

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

MS MS

Lab Sample ID: 880-12698-A-1-D MS

Lab Sample ID: 880-12698-A-1-E MSD

Matrix: Solid Analysis Batch: 22112 Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 22118

mple	Sample	Spike	MS	MS				%Rec.	
esult	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
49.8	U	998	1149		mg/Kg		115	70 - 130	
49.8	U	998	1090		mg/Kg		108	70 - 130	
<	• Result <49.8	Ample Sample Result Qualifier V49.8 U	Result Qualifier Added Added 998	Result Qualifier Added Result <49.8 U 998 1149	Result Qualifier Added Result Qualifier 998 1149	Result Qualifier Added Result Qualifier Unit <49.8 U 998 1149 mg/Kg	Result Qualifier Added Result Qualifier Unit mg/Kg	Result <49.8QualifierAdded 998Result 1149Qualifier mg/KgUnit mg/KgD MRec 	Result Qualifier Added Result Qualifier Unit D %Rec Limits 70 - 130

Surrogate	%Recovery Qualifi	er Limits
1-Chlorooctane	99	70 - 130
o-Terphenyl	90	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 22118

Matrix: Solid Analysis Batch: 22112 Spike MSD MSD %Rec. RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit <49.8 U 999 3 Gasoline Range Organics 1181 mg/Kg 118 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 999 1098 mg/Kg 108 70 - 130 20

MSD MSD %Recovery Qualifier Surrogate

Limits 1-Chlorooctane 99 70 - 130 o-Terphenyl 90 70 - 130

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

Matrix: Solid

C10-C28)

Analysis Batch: 22114

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 22119

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

MB MB

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

Lab Sample ID: LCS 880-22119/2-A **Client Sample ID: Lab Control Sample**

1000

Diesel Range Organics (Over

C10-C28)

Matrix: Solid							Prep Type: Total/NA
Analysis Batch: 22114							Prep Batch: 22119
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	949.0		mg/Kg		95	70 - 130
(GRO)-C6-C10							

1206

mg/Kg

121

70 - 130

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Job ID: 890-2113-1

SDG: 31403720.000 TASK 42.02

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

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

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

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

Matrix: Solid

Client: WSP USA Inc.

Project/Site: MCA 372

Analysis Batch: 22114

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22119

LCS LCS

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 121 70 - 130 o-Terphenyl 114 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22119

Matrix: Solid Analysis Batch: 22114 Spike LCSD LCSD %Rec. RPD

Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 871.9 87 70 - 1308 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1154 mg/Kg 115 70 - 13020

C10-C28)

Matrix: Solid

Analysis Batch: 22114

LCSD LCSD

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

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 22119

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

C10-C28)

MS MS %Recovery Qualifier Surrogate

Limits 70 - 130 1-Chlorooctane 108 70 - 130 o-Terphenyl 88

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

Matrix: Solid

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Analysis Batch: 22114

Prep Type: Total/NA

Prep Batch: 22119

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

C10-C28)

MSD MSD

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

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RPD

QC Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2113-1

 Project/Site: MCA 372
 SDG: 31403720.000 TASK 42.02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22084/1-A

Matrix: Solid

Analysis Batch: 22140

Client Sample ID: Method Blank
Prep Type: Soluble

 MB

 Analyte
 Result
 Qualifier
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 Unit
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 Chloride
 <5.00</td>
 U
 5.00
 mg/Kg
 03/22/22 14:49
 1

Lab Sample ID: LCS 880-22084/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 22140

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 267.6 mg/Kg 107 90 - 110

Lab Sample ID: LCSD 880-22084/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 22140

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 268.8 20 mg/Kg 108 90 - 110

Lab Sample ID: 890-2113-3 MS

Matrix: Solid

Analysis Batch: 22140

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 325.3 Chloride 69.4 250 102 90 - 110 mg/Kg

Lab Sample ID: 890-2113-3 MSD

Matrix: Solid

Analysis Batch: 22140

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 69.4 327.0 mg/Kg 103 90 - 110 20

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Client Sample ID: FS03

Client Sample ID: FS03

Prep Type: Soluble

Prep Type: Soluble

 Client: WSP USA Inc.
 Job ID: 890-2113-1

 Project/Site: MCA 372
 SDG: 31403720.000 TASK 42.02

GC VOA

Prep Batch: 21824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2113-4	FS04	Total/NA	Solid	5035	
890-2113-5	FS05	Total/NA	Solid	5035	
890-2113-6	FS06	Total/NA	Solid	5035	
890-2113-7	FS07	Total/NA	Solid	5035	
890-2113-8	FS08	Total/NA	Solid	5035	
890-2113-9	FS09	Total/NA	Solid	5035	
890-2113-10	FS10	Total/NA	Solid	5035	
890-2113-11	FS11	Total/NA	Solid	5035	
890-2113-12	FS12	Total/NA	Solid	5035	
MB 880-21824/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-21824/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-21824/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12580-A-2-F MS	Matrix Spike	Total/NA	Solid	5035	
880-12580-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 22009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2113-1	FS01	Total/NA	Solid	5035	
890-2113-2	FS02	Total/NA	Solid	5035	
890-2113-3	FS03	Total/NA	Solid	5035	
MB 880-22009/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22009/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22009/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12580-A-1-J MS	Matrix Spike	Total/NA	Solid	5035	
880-12580-A-1-K MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 22109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2113-1	FS01	Total/NA	Solid	8021B	22009
890-2113-2	FS02	Total/NA	Solid	8021B	22009
890-2113-3	FS03	Total/NA	Solid	8021B	22009
MB 880-22009/5-A	Method Blank	Total/NA	Solid	8021B	22009
LCS 880-22009/1-A	Lab Control Sample	Total/NA	Solid	8021B	22009
LCSD 880-22009/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22009
880-12580-A-1-J MS	Matrix Spike	Total/NA	Solid	8021B	22009
880-12580-A-1-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22009

Analysis Batch: 22110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2113-4	FS04	Total/NA	Solid	8021B	21824
890-2113-5	FS05	Total/NA	Solid	8021B	21824
890-2113-6	FS06	Total/NA	Solid	8021B	21824
890-2113-7	FS07	Total/NA	Solid	8021B	21824
890-2113-8	FS08	Total/NA	Solid	8021B	21824
890-2113-9	FS09	Total/NA	Solid	8021B	21824
890-2113-10	FS10	Total/NA	Solid	8021B	21824
890-2113-11	FS11	Total/NA	Solid	8021B	21824
890-2113-12	FS12	Total/NA	Solid	8021B	21824
MB 880-21824/5-A	Method Blank	Total/NA	Solid	8021B	21824
LCS 880-21824/1-A	Lab Control Sample	Total/NA	Solid	8021B	21824
LCSD 880-21824/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	21824

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Job ID: 890-2113-1 Client: WSP USA Inc. Project/Site: MCA 372 SDG: 31403720.000 TASK 42.02

GC VOA (Continued)

Analysis Batch: 22110 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12580-A-2-F MS	Matrix Spike	Total/NA	Solid	8021B	21824
880-12580-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	21824

Analysis Batch: 22169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2113-1	FS01	Total/NA	Solid	Total BTEX	
890-2113-2	FS02	Total/NA	Solid	Total BTEX	
890-2113-3	FS03	Total/NA	Solid	Total BTEX	
890-2113-4	FS04	Total/NA	Solid	Total BTEX	
890-2113-5	FS05	Total/NA	Solid	Total BTEX	
890-2113-6	FS06	Total/NA	Solid	Total BTEX	
890-2113-7	FS07	Total/NA	Solid	Total BTEX	
890-2113-8	FS08	Total/NA	Solid	Total BTEX	
890-2113-9	FS09	Total/NA	Solid	Total BTEX	
890-2113-10	FS10	Total/NA	Solid	Total BTEX	
890-2113-11	FS11	Total/NA	Solid	Total BTEX	
890-2113-12	FS12	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22112

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2113-1	FS01	Total/NA	Solid	8015B NM	22118
890-2113-2	FS02	Total/NA	Solid	8015B NM	22118
890-2113-3	FS03	Total/NA	Solid	8015B NM	22118
890-2113-4	FS04	Total/NA	Solid	8015B NM	22118
890-2113-5	FS05	Total/NA	Solid	8015B NM	22118
890-2113-6	FS06	Total/NA	Solid	8015B NM	22118
MB 880-22118/1-A	Method Blank	Total/NA	Solid	8015B NM	22118
LCS 880-22118/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22118
LCSD 880-22118/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22118
880-12698-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	22118
880-12698-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22118

Analysis Batch: 22114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2113-7	FS07	Total/NA	Solid	8015B NM	22119
890-2113-8	FS08	Total/NA	Solid	8015B NM	22119
890-2113-9	FS09	Total/NA	Solid	8015B NM	22119
890-2113-10	FS10	Total/NA	Solid	8015B NM	22119
890-2113-11	FS11	Total/NA	Solid	8015B NM	22119
890-2113-12	FS12	Total/NA	Solid	8015B NM	22119
MB 880-22119/1-A	Method Blank	Total/NA	Solid	8015B NM	22119
LCS 880-22119/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22119
LCSD 880-22119/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22119
880-12699-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	22119
880-12699-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22119

Prep Batch: 22118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2113-1	FS01	Total/NA	Solid	8015NM Prep	

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 Client: WSP USA Inc.
 Job ID: 890-2113-1

 Project/Site: MCA 372
 SDG: 31403720.000 TASK 42.02

GC Semi VOA (Continued)

Prep Batch: 22118 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2113-2	FS02	Total/NA	Solid	8015NM Prep	
890-2113-3	FS03	Total/NA	Solid	8015NM Prep	
890-2113-4	FS04	Total/NA	Solid	8015NM Prep	
890-2113-5	FS05	Total/NA	Solid	8015NM Prep	
890-2113-6	FS06	Total/NA	Solid	8015NM Prep	
MB 880-22118/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22118/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22118/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12698-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12698-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 22119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2113-7	FS07	Total/NA	Solid	8015NM Prep	
890-2113-8	FS08	Total/NA	Solid	8015NM Prep	
890-2113-9	FS09	Total/NA	Solid	8015NM Prep	
890-2113-10	FS10	Total/NA	Solid	8015NM Prep	
890-2113-11	FS11	Total/NA	Solid	8015NM Prep	
890-2113-12	FS12	Total/NA	Solid	8015NM Prep	
MB 880-22119/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22119/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22119/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12699-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12699-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2113-1	FS01	Total/NA	Solid	8015 NM	
890-2113-2	FS02	Total/NA	Solid	8015 NM	
890-2113-3	FS03	Total/NA	Solid	8015 NM	
890-2113-4	FS04	Total/NA	Solid	8015 NM	
890-2113-5	FS05	Total/NA	Solid	8015 NM	
890-2113-6	FS06	Total/NA	Solid	8015 NM	
890-2113-7	FS07	Total/NA	Solid	8015 NM	
890-2113-8	FS08	Total/NA	Solid	8015 NM	
890-2113-9	FS09	Total/NA	Solid	8015 NM	
890-2113-10	FS10	Total/NA	Solid	8015 NM	
890-2113-11	FS11	Total/NA	Solid	8015 NM	
890-2113-12	FS12	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2113-1	FS01	Soluble	Solid	DI Leach	
890-2113-2	FS02	Soluble	Solid	DI Leach	
890-2113-3	FS03	Soluble	Solid	DI Leach	
890-2113-4	FS04	Soluble	Solid	DI Leach	
890-2113-5	FS05	Soluble	Solid	DI Leach	
890-2113-6	FS06	Soluble	Solid	DI Leach	
890-2113-7	FS07	Soluble	Solid	DI Leach	

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 Client: WSP USA Inc.
 Job ID: 890-2113-1

 Project/Site: MCA 372
 SDG: 31403720.000 TASK 42.02

HPLC/IC (Continued)

Leach Batch: 22084 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2113-8	FS08	Soluble	Solid	DI Leach	
890-2113-9	FS09	Soluble	Solid	DI Leach	
890-2113-10	FS10	Soluble	Solid	DI Leach	
890-2113-11	FS11	Soluble	Solid	DI Leach	
890-2113-12	FS12	Soluble	Solid	DI Leach	
MB 880-22084/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22084/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22084/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2113-3 MS	FS03	Soluble	Solid	DI Leach	
890-2113-3 MSD	FS03	Soluble	Solid	DI Leach	

Analysis Batch: 22140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2113-1	FS01	Soluble	Solid	300.0	22084
890-2113-2	FS02	Soluble	Solid	300.0	22084
890-2113-3	FS03	Soluble	Solid	300.0	22084
890-2113-4	FS04	Soluble	Solid	300.0	22084
890-2113-5	FS05	Soluble	Solid	300.0	22084
890-2113-6	FS06	Soluble	Solid	300.0	22084
890-2113-7	FS07	Soluble	Solid	300.0	22084
890-2113-8	FS08	Soluble	Solid	300.0	22084
890-2113-9	FS09	Soluble	Solid	300.0	22084
890-2113-10	FS10	Soluble	Solid	300.0	22084
890-2113-11	FS11	Soluble	Solid	300.0	22084
890-2113-12	FS12	Soluble	Solid	300.0	22084
MB 880-22084/1-A	Method Blank	Soluble	Solid	300.0	22084
LCS 880-22084/2-A	Lab Control Sample	Soluble	Solid	300.0	22084
LCSD 880-22084/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22084
890-2113-3 MS	FS03	Soluble	Solid	300.0	22084
890-2113-3 MSD	FS03	Soluble	Solid	300.0	22084

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Lab Chronicle

Client: WSP USA Inc. Job ID: 890-2113-1 Project/Site: MCA 372 SDG: 31403720.000 TASK 42.02

Client Sample ID: FS01 Lab Sample ID: 890-2113-1

Matrix: Solid

Date Collected: 03/18/22 13:55 Date Received: 03/21/22 08:08

	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 g	22009	03/22/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22109	03/22/22 14:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22169	03/22/22 16:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22196	03/23/22 12:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22118	03/22/22 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22112	03/22/22 14:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22084	03/22/22 10:57	CH	XEN MID
Soluble	Analysis	300.0		1			22140	03/22/22 17:28	CH	XEN MID

Client Sample ID: FS02 Lab Sample ID: 890-2113-2

Date Collected: 03/18/22 09:55 Matrix: Solid

Date Received: 03/21/22 08:08

	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 g	22009	03/22/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22109	03/22/22 14:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22169	03/22/22 16:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22196	03/23/22 12:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22118	03/22/22 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22112	03/22/22 14:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22084	03/22/22 10:57	CH	XEN MID
Soluble	Analysis	300.0		1			22140	03/22/22 17:36	CH	XEN MID

Client Sample ID: FS03 Lab Sample ID: 890-2113-3

Date Collected: 03/18/22 10:30 **Matrix: Solid** Date Received: 03/21/22 08:08

	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 g	22009	03/22/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22109	03/22/22 14:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22169	03/22/22 16:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22196	03/23/22 12:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22118	03/22/22 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22112	03/22/22 14:48	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22084	03/22/22 10:57	CH	XEN MID
Soluble	Analysis	300.0		1			22140	03/22/22 17:45	CH	XEN MID

Lab Sample ID: 890-2113-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	21824	03/22/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22110	03/22/22 14:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22169	03/22/22 16:45	AJ	XEN MID

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Client Sample ID: FS04 Date Collected: 03/18/22 10:35 Date Received: 03/21/22 08:08

Job ID: 890-2113-1

SDG: 31403720.000 TASK 42.02

Client Sample ID: FS04

Client: WSP USA Inc.

Project/Site: MCA 372

Lab Sample ID: 890-2113-4

Matrix: Solid

Date Collected: 03/18/22 10:35 Date Received: 03/21/22 08:08

	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			22196	03/23/22 12:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22118	03/22/22 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22112	03/22/22 15:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22084	03/22/22 10:57	CH	XEN MID
Soluble	Analysis	300.0		1			22140	03/22/22 18:12	CH	XEN MID

Client Sample ID: FS05 Lab Sample ID: 890-2113-5

Date Collected: 03/18/22 10:40 Date Received: 03/21/22 08:08

	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	21824	03/22/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22110	03/22/22 14:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22169	03/22/22 16:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22196	03/23/22 12:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22118	03/22/22 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22112	03/22/22 15:28	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	22084	03/22/22 10:57	CH	XEN MID
Soluble	Analysis	300.0		1			22140	03/22/22 18:21	CH	XEN MID

Client Sample ID: FS06 Lab Sample ID: 890-2113-6

Date Collected: 03/18/22 11:20 **Matrix: Solid** Date Received: 03/21/22 08:08

	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	21824	03/22/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22110	03/22/22 14:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22169	03/22/22 16:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22196	03/23/22 12:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22118	03/22/22 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22112	03/22/22 15:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22084	03/22/22 10:57	CH	XEN MID
Soluble	Analysis	300.0		1			22140	03/22/22 18:30	CH	XEN MID

Client Sample ID: FS07 Lab Sample ID: 890-2113-7

Date Collected: 03/18/22 12:30 **Matrix: Solid** Date Received: 03/21/22 08:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	21824	03/22/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22110	03/22/22 15:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22169	03/22/22 16:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22196	03/23/22 12:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22119	03/22/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22114	03/22/22 14:08	AJ	XEN MID

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Matrix: Solid

Client: WSP USA Inc. Job ID: 890-2113-1 Project/Site: MCA 372

SDG: 31403720.000 TASK 42.02

Client Sample ID: FS07 Lab Sample ID: 890-2113-7 Date Collected: 03/18/22 12:30

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	22084	03/22/22 10:57	CH	XEN MID
Soluble	Analysis	300.0		1			22140	03/22/22 18:38	CH	XEN MID

Lab Sample ID: 890-2113-8 Client Sample ID: FS08

Matrix: Solid

Date Collected: 03/18/22 12:35 Date Received: 03/21/22 08:08

Date Received: 03/21/22 08:08

Analysis

300.0

Soluble

Date Received: 03/21/22 08:08

	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	21824	03/22/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22110	03/22/22 15:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22169	03/22/22 16:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22196	03/23/22 12:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22119	03/22/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22114	03/22/22 14:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22084	03/22/22 10:57	CH	XEN MID
Soluble	Analysis	300.0		1			22140	03/22/22 18:47	CH	XEN MID

Client Sample ID: FS09 Lab Sample ID: 890-2113-9 Date Collected: 03/18/22 12:40

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 4.97 g 5 mL 21824 03/22/22 08:30 KL XEN MID 8021B Total/NA 5 mL 5 mL 03/22/22 15:57 XEN MID Analysis 22110 KL Total/NA Analysis Total BTEX 1 22169 03/22/22 16:45 AJ XEN MID Total/NA Analysis 8015 NM 1 22196 03/23/22 12:18 AJ XEN MID 8015NM Prep Total/NA Prep 10.03 g 22119 03/22/22 08:40 DM XEN MID 10 mL Total/NA Analysis XEN MID 8015B NM 1 22114 03/22/22 14:48 AJ Soluble Leach DI Leach 5.01 g 50 mL 22084 03/22/22 10:57 СН XEN MID

Lab Sample ID: 890-2113-10 **Client Sample ID: FS10**

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Date Collected: 03/18/22 13:40 **Matrix: Solid** Date Received: 03/21/22 08:08

22140

03/22/22 19:14

CH

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	21824	03/22/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22110	03/22/22 16:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22169	03/22/22 16:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22196	03/23/22 12:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22119	03/22/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22114	03/22/22 15:08	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	22084	03/22/22 10:57	CH	XEN MID
Soluble	Analysis	300.0		1			22140	03/22/22 19:23	CH	XEN MID

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XEN MID

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-2113-1 Project/Site: MCA 372 SDG: 31403720.000 TASK 42.02

Client Sample ID: FS11

Lab Sample ID: 890-2113-11 Date Collected: 03/18/22 13:50 **Matrix: Solid**

Date Received: 03/21/22 08:08

	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	21824	03/22/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22110	03/22/22 16:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22169	03/22/22 16:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22196	03/23/22 12:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22119	03/22/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22114	03/22/22 15:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22084	03/22/22 10:57	CH	XEN MID
Soluble	Analysis	300.0		1			22140	03/22/22 19:31	CH	XEN MID

Lab Sample ID: 890-2113-12 **Client Sample ID: FS12**

Date Collected: 03/18/22 13:55 **Matrix: Solid** Date Received: 03/21/22 08:08

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 21824 Total/NA Prep 5.02 g 5 mL 03/22/22 08:30 KL XEN MID 8021B Total/NA 5 mL 03/22/22 16:58 Analysis 1 5 mL 22110 KL XEN MID Total/NA Total BTEX 22169 03/22/22 16:45 Analysis 1 A.I XEN MID Total/NA Analysis 8015 NM 22196 03/23/22 12:18 XEN MID 22119 Total/NA Prep 8015NM Prep 10.00 g 10 mL 03/22/22 08:40 DM XEN MID Total/NA Analysis 8015B NM 22114 03/22/22 15:49 ΑJ XEN MID Soluble XEN MID Leach DI Leach 5.01 g 50 mL 22084 03/22/22 10:57 CH Soluble Analysis 300.0 22140 03/22/22 19:40 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: 890-2113-1 Project/Site: MCA 372 SDG: 31403720.000 TASK 42.02

Laboratory: Eurofins Midland

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

Authority	Pr	rogram	Identification Number	Expiration Date
Texas	NI	ELAP	T104704400-21-22	06-30-22
The following analytes the agency does not of		ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for whi
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

Method Summary

 Client: WSP USA Inc.
 Job ID: 890-2113-1

 Project/Site: MCA 372
 SDG: 31403720.000 TASK 42.02

Method **Method Description** Protocol Laboratory 8021B Volatile Organic Compounds (GC) SW846 XEN MID Total BTEX Calculation Total BTEX 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 SW846 XEN MID Closed System Purge and Trap 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

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Sample Summary

 Client: WSP USA Inc.
 Job ID: 890-2113-1

 Project/Site: MCA 372
 SDG: 31403720.000 TASK 42.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2113-1	FS01	Solid	03/18/22 13:55	03/21/22 08:08	1
890-2113-2	FS02	Solid	03/18/22 09:55	03/21/22 08:08	1
890-2113-3	FS03	Solid	03/18/22 10:30	03/21/22 08:08	1
890-2113-4	FS04	Solid	03/18/22 10:35	03/21/22 08:08	1
890-2113-5	FS05	Solid	03/18/22 10:40	03/21/22 08:08	1
890-2113-6	FS06	Solid	03/18/22 11:20	03/21/22 08:08	1
890-2113-7	FS07	Solid	03/18/22 12:30	03/21/22 08:08	1
890-2113-8	FS08	Solid	03/18/22 12:35	03/21/22 08:08	1
890-2113-9	FS09	Solid	03/18/22 12:40	03/21/22 08:08	1
890-2113-10	FS10	Solid	03/18/22 13:40	03/21/22 08:08	1
890-2113-11	FS11	Solid	03/18/22 13:50	03/21/22 08:08	1
890-2113-12	FS12	Solid	03/18/22 13:55	03/21/22 08:08	1

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	432 704 5178		Ema	Email: Kalei.Jennings@wsp.com	gs@ws	sp.com							Deliverables: EDD	les: El		H	ADaPT		ြု	Other:		
Project Name: M	MCA 372			Turn Around						ANALYSIS REQUEST	SIS RE	QUEST							Work	Orde	Work Order Notes	S
Project Number:	31403720.	31403720.000 Task 42.02	Ro	Routine []																		
P.O. Number:			Ru	Rush: 24 hy									_									
Sampler's Name: M	Mercy Rotich.	:	Du	Due Date:												•	-	API:	API: 30-025-00615	5-0061	20	
SAMPLE RECEIPT	Temp Blank:	(es)	No Wet Ice:	e: No																		
Temperature (°C):	4.6/9	2	Thermometer ID	er ID	ners)			890-21	890-2113 Chain of Custody	of Cu	stody			-					
Received Intact:	es N	1-1	M-00	П	ontai	i) 		300.0									j	Τ				
Sample Custody Seals:	Yes No	N/A)	Total Containers:	s:	r of C	PA 801	11	e (EPA						_	 -		-	TAT	starts the	ne day r	TAT starts the day recevied by the lab, if received by 4:30pm	by the
Sample Identification		Matrix Date Sampled	Time ed Sampled	Depth	Numb	TPH (E	втех (Chloric											Samp	le Cor	Sample Comments	ី
FS01	S	03/18/22	//22 13:55	1'	_	×	×	×									<u> </u>			Discrete	te	
FS02	S	03/18/22	/22 9:55	٠.	_	×	×	×				_	_		H	\vdash	┢	┢		Discrete	fe	
FS03	S	03/18/22	/22 10:30			×	×	×				L	<u> </u>	\vdash	\vdash	\vdash	\vdash	 		Discrete	je j	
FS04	S	03/18/22	/22 10:35	<u></u>		×	×	×				igdash	_	\vdash	\vdash	\vdash				Discrete	Ť	
FS05	S	03/18/22	/22 10:40			×	×	×				-	-							Discrete	ŧ	
FS06	S	03/18/22	/22 11:20			×	×	×				-		-	-	\vdash				Discrete	र्हें 	
FS07	S	03/18/22	/22 12:30		_	×	×	×				ļ		<u> </u>	-		-		ı	Discrete	¯	
FS08	S	03/18/22	/22 12:35	1		×	×	×												Discrete	Ē ē	
FS09	S	03/18/22	/22 12:40	-1		×	×	×									<u> </u>			Discrete	ē	
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Work Order Notes	5	ANALYSIS REQUEST		Turn Around		MCA 372	Project Name:
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432 704 5178

Project Manager: Company Name:

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Kalei Jennings	Bill to: (if different)	Kalei Jennings	Work Order Comments
WSP USA	Company Name: WSP USA	WSP USA	Program: UST/PST ☐RP ☐rownfields ☐RC ⑤perfund ☐
3300 North A Street	Address:	33000 North A Street	State of Project:
Midland, Texas 79705	City, State ZIP:	City, State ZIP: Midland, Texas 79705	Reporting:Level II
432 704 5178	Email: Kalei.Jennings@wsp.com	wsp.com	Deliverables: EDD ADaPT Other:

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District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Responsible Party

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID

Contact Nam	Contact Name				Contact Te	elephone			
Contact email					Incident # (assigned by OCD)				
Contact mail	Contact mailing address								
	Location of Release Source								
Latitude			(NAD 83 in de	ecimal deg	Longitude _ rees to 5 decin	nal places)			
Site Name					Site Type				
Date Release Discovered					API# (if app	licable)			
Unit Letter Section Township Range					Coun	ty			
Surface Owner	Surface Owner: State Federal Tribal Private (Name: Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Volume Recovered (bbls)								
Produced		Volume Released					overed (bbls)		
		Is the concentrati produced water >	on of dissolved o	chloride	in the	Yes 1			
Condensa	ite	Volume Released	d (bbls)			Volume Rec	overed (bbls)		
Natural G	ias	Volume Released	d (Mcf)			Volume Rec	overed (Mcf)		
Other (de	scribe)	Volume/Weight	Released (provid	le units)		Volume/Wei	ight Recovered (provide units)		
Cause of Rele	ease								

Received by OCD: 3/28/2022 12:00:35 PM State of New Mexico
Page 2 Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the	e responsible party consider this a major release?			
19.15.29.7(A) NMAC?					
☐ Yes ☐ No					
If VEC was immediate as	ation given to the OCD? Dy whom?	To whom? When and by what means (phone, email, etc)?			
II YES, was immediate no	ouce given to the OCD? By whom?	10 whom? when and by what means (phone, email, etc)?			
	Initi	ial Response			
The responsible p	party must undertake the following actions im	mediately unless they could create a safety hazard that would result in injury			
☐ The source of the rele	ease has been stopped.				
☐ The impacted area has	s been secured to protect human hea	lth and the environment.			
Released materials ha	we been contained via the use of ber	ms or dikes, absorbent pads, or other containment devices.			
All free liquids and recoverable materials have been removed and managed appropriately.					
If all the actions described	d above have <u>not</u> been undertaken, et	xplain why:			
D 10.15.00.0 D (A) 3.71.6					
has begun, please attach a	a narrative of actions to date. If rer	nence remediation immediately after discovery of a release. If remediation medial efforts have been successfully completed or if the release occurred IAC), please attach all information needed for closure evaluation.			
regulations all operators are public health or the environm failed to adequately investigations.	required to report and/or file certain relement. The acceptance of a C-141 report ate and remediate contamination that post	e to the best of my knowledge and understand that pursuant to OCD rules and asse notifications and perform corrective actions for releases which may endanger by the OCD does not relieve the operator of liability should their operations have se a threat to groundwater, surface water, human health or the environment. In rator of responsibility for compliance with any other federal, state, or local laws			
Printed Name		Title:			
Signature:	tanizapange	Date:			
		Telephone:			
OCD Only					
Received by: Ramona M	arcus	Date: <u>1/18/2022</u>			

L48 Spill Volume Estimate Form Received by OCD: 3/28/2022 12:00:35 PM ne & Number: MCA 372 Page 61 of 65 Asset Area: Maljamar NAPP2201143682 Release Discovery Date & Time: 01/02/2022 11:00am Release Type: Oil Mixture Provide any known details about the event: Flowline Leak due to freezing temps. Spill Calculation - Subsurface Spill - Rectangle Was the release on pad or off-pad? See reference table below Has it rained at least a half inch in the last 24 hours? See reference table below **Total Estimated** Percentage of Oil if Total Estimated **Total Estimated** Convert Irregular shape Length Width Depth Estimated volume of each area Volume of Spilled Soil Spilled-Fluid Saturation Volume of Spill Spilled Fluid is a Volume of Spilled Oil nto a series of rectangles (ft.) (ft.) (in.) (bbl.) Liquid other than Oil (bbl.) Mixture (bbl.) (bbl.) Rectangle A 110.0 27.0 2.00 8.00% 88.110 7.049 3.00% 0.211 6.837 Rectangle B 5.0 3.0 3.00 8.00% 0.668 0.053 3.00% 0.002 0.052 Rectangle C 0.000 0.000 0.000 0.000 Rectangle D 0.000 0.000 0.000 0.000 Rectangle E 0.000 0.000 0.000 0.000 Rectangle F 0.000 0.000 0.000 0.000 Rectangle G 0.000 0.000 0.000 0.000

0.000

0.000

0.000

Total Volume Release:

0.000

0.000

0.000

7.102

0.000

0.000

0.000

0.213

0.000

0.000

0.000

6.889

Released to Imaging: 4/25/2022 4:02:50 PM

Rectangle H

Rectangle I

te of New Mexico

Incident ID	NAPP2201143682
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?	_50-100_ (ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?			
Are the lateral extents of the release within 300 feet of a wetland?			
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?			
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 vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil		
Characterization Report Checklist: Each of the following items must be included in the report.			
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data □ Data table of soil contaminant concentration data □ Depth to water determination □ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release □ Boring or excavation logs □ Photographs including date and GIS information □ Topographic/Aerial maps □ Laboratory data including chain of custody 	ls.		
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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Page	63	of	65
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Incident ID	NAPP2201143682
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the C failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Rahul Kaushik	Title: Field Environmental Coordinator, Lower 48
Signature: Your Will	Date: 03/25/2022
email: Rahul.Kaushik@cononophillips.com	Telephone: (432) 238-3781
OCD Only	
Received by:	Date:

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Page 64 of 65

Incident ID	NAPP2201143682
District RP	
Facility ID	
Application ID	

Closure

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

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

Photographs of the remediated site prior to backfill or photos of the	ne liner integrity if applicable (Note: appropriate OCD District office	
must be notified 2 days prior to liner inspection)		
☐ Laboratory analyses of final sampling (Note: appropriate OCD D	istrict office must be notified 2 days prior to final sampling)	
□ Description of remediation activities		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health of the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.		
Printed Name: Rahul Kaushik	Title: Field Environmental Coordinator, Lower 48	
Signature: Rahmidiil	Date: 03/25/2022	
Email: Rahul.Kaushik@conocophillips.com	Telephone: (432) 238-3781	
ODC Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party of and remediate contamination that poses a threat to groundwater, surfaresponsible party of compliance with any other federal, state, or local		
Closure Approved by:	Date: 04/25/2022	
Closure Approved by:	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 93487

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	93487
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	Closure Report Approved.	4/25/2022