Received by OCD: 6/1/2021 1:28:14 PM Form C-141 State of New Mexico

Detailed description of proposed remediation technique

Oil Conservation Division

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

	1 480 1 0
Incident ID	nAPP2101331137
District RP	
Facility ID	
Application ID	

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# **Remediation Plan**

Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. \_\_\_\_\_ Title: \_\_\_\_ Environmental Manager Printed Name: Kyle Littrell Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Date: \_\_\_\_\_05/25/2021\_\_\_ email: Kyle.Littrell@exxonmobil.com Telephone: (432)-221-7331\_\_\_\_\_ OCD Only Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Jennifer Nobui Date: 06/28/2022 Signature:

WSP USA

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

May 28, 2021

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

RE: Deferral Request Goldenchild CTB Incident Numbers nAPP2035256230, nAPP2101331137, nAPP2101335437, nAPP2102237559 Eddy County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP), on behalf of XTO Energy, Inc. (XTO), presents the following Deferral Request detailing site assessment, excavation, and soil sampling activities at the Goldenchild Central Tank Battery (CTB) (Site) in Unit P, Section 6, Township 25 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following four flare fire release events at the Site. Based on the excavation activities and soil sample laboratory analytical results, XTO is submitting this Deferral Request, describing remediation that has occurred and requesting deferral of final remediation for Incident Numbers nAPP2035256230, nAPP2101331137, nAPP2101335437, and nAPP2102237559 until the Site is reconstructed, and/or the well pad is abandoned.

#### **RELEASE BACKGROUND**

On December 4, 2020, the low-pressure flare malfunctioned, resulting in the release of approximately 0.04 barrels (bbls) of crude oil through the flare stack which resulted in a small fire. The fire extinguished itself and there were no standing fluids to recover. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on December 4, 2020. A Release Notification and Corrective Action Form C-141 (Form C-141) was submitted on December 17, 2020 and the release was assigned Incident Number nAPP2035256230.

On January 7, 2021, the low-pressure flare malfunctioned due to the jatco pot, resulting in the release of approximately 0.03 bbls of condensate through the flare stack which resulted in a small fire. The fire extinguished itself and there were no standing fluids to recover. XTO reported the release to the NMOCD via email on January 7, 2021. A Form C-141 was submitted on January 13, 2021 and the release was assigned Incident Number nAPP2101331137.

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District II Page 2

On January 8, 2021, a flare stack malfunctioned, resulting in the release of approximately 0.12 bbls of condensate onto the surface of the well pad. The fire extinguished itself and there were no standing fluids to recover. XTO reported the release to the NMOCD via email on January 8, 2021. A Form C-141 was submitted on January 13, 2021 and the release was assigned Incident Number nAPP2101335437.

On January 15, 2021, the low-pressure flare malfunctioned, resulting in the release of approximately 0.11 bbls of condensate through the flare stack which resulted in a small fire. The fire extinguished itself and there were no standing fluids to recover. XTO reported the release to the NMOCD via email on January 15, 2021. A Form C-141 was submitted on January 22, 2021 and the release was assigned Incident Number nAPP2102237559.

# SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. During November 2020, WSP installed a soil boring (C-4493) within 0.5 miles of the Site utilizing a truck-mounted hollow-stem auger rig. Soil boring C-4493 was drilled to a depth of 57 feet bgs. A WSP geologist logged and described soils continuously. The well record and log are included in Attachment 1. The location of the borehole is approximately 0.16 miles south of the Site and is depicted on Figure 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period, it was confirmed that groundwater beneath the Site is 39 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips.

The closest continuously flowing or significant watercourse to the Site is the Pecos River, located approximately 1,895 feet west of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

# **CLOSURE CRITERIA**

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg



District II Page 3

- Total Petroleum Hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

# SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On February 1, 2021, WSP personnel visited the Site to evaluate the release extents based on information provided on the Form C-141s and visual observations. The release extents from the four flare fires overlapped and were evaluated simultaneously. WSP personnel collected three preliminary assessment soil samples (SS01 through SS03) within the release extents from a depth of approximately 0.5 feet bgs to assess the lateral extent of the releases. Soil was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips, respectively. The combined release extents and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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

Laboratory analytical results for preliminary soil sample SS01 indicated TPH and chloride concentrations exceeded the Closure Criteria. Laboratory analytical results for preliminary soil samples SS02 and SS03 indicated chloride concentrations exceeded the Closure Criteria. Based on visible staining in the release area, field screening activities, and laboratory analytical results for the preliminary soil samples, delineation and excavation activities were warranted.

# **EXCAVATION AND DELINEATION ACTIVITIES AND ANALYTICAL RESULTS**

Between March 12, 2021 and April 22, 2021, WSP personnel returned to the Site to oversee excavation and delineation activities as indicated by visible staining in the release area, field screening activities, and laboratory analytical results for the preliminary soil samples.

#### **Initial Excavation Activities**

Excavation activities were performed to remove the surficial staining in the release footprint and excavate the impacted soil in the areas surrounding preliminary soil samples SS01 through SS02. Excavation activities were performed using track-mounted backhoe and transport vehicle. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride



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utilizing a PID and Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips, respectively. Photographic documentation is included in Attachment 3.

Following removal of impacted soil to the extent possible, WSP collected 5-point composite soil samples every 200 square feet from the sidewalls and floors of the excavations. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples SW01 through SW03 were collected from the sidewalls of the excavations from depths ranging from the ground surface to 3 feet bgs. Composite soil samples FS01 through FS05 were collected from the floor of the excavations from depths ranging from 2 feet to 3 feet bgs. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extents and excavation soil sample locations are presented on Figure 3.

Laboratory analytical results for excavation samples SW01, SW02, and FS01 through FS05, collected from the final excavation extents, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for sidewall sample SW03 indicated that chloride concentrations exceeded the Closure Criteria. Sidewall sample SW03 was collected adjacent to an anchor point that supports the flare stack. Further excavation of impacted soil beyond the excavation sidewall sample SW03 was limited by the anchor point. XTO safety policy restricts soil disturbing activities to a 2-foot radius of any on-site production equipment, pipelines, or flare anchors and a 10-foot radius of active flare stacks. This XTO safety policy is established to protect workers and reduce the likelihood of compromising the foundation of the production equipment, pipelines, or flare anchor point and 10 feet of the active flare stack.

The combined excavation extents measured approximately 1,115 square feet. A total of approximately 110 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

#### **Delineation and Final Excavation Activities**

Between March 12, 2021 and April 22, 2021, WSP personnel were at the Site to oversee delineation activities. The delineation activities were completed in coordination with excavation activities to define the lateral and vertical extent of impacted soil left in-place within 2 feet of the flare anchor point and 10 feet of the active flare stack.

Four potholes (PH01 through PH04) were advanced via backhoe within and around the release extent to assess the lateral and vertical extent of impacted soil. Potholes PH01 through PH04 were advanced to a depth of 3 feet bgs. Delineation soil samples were collected from each

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District II Page 5

pothole from depths of 1 foot and 3 feet bgs. A concrete barrier was located north of the flare stacks, which prevented off pad impacts from the fires and provided additional delineation to the north (reference photos 4 and 6 in Attachment 3).

Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing PID and Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips, respectively. The delineation soil samples were collected, handled, and analyzed as described above. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 2. The delineation pothole soil sample locations are depicted on Figure 4.

Laboratory analytical results for delineation soil samples PH02/PH02A, PH03/PH03A, and PH04/PH04A, collected from depths ranging from 1-foot to 3 feet bgs, indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria and defined the lateral and vertical extent of the impacted soil left in-place.

Laboratory analytical results for delineation soil sample PH01A, collected from pothole PH01 at 3 feet bgs, indicated that chloride concentrations exceeded the Closure Criteria. Based on the elevated chloride result in pothole PH01, the excavation was extended. Additional soil was removed from the area around pothole PH01 and subsequent excavation sidewall sample SW04 and floor sample FS06 were collected from the final excavation extent. Laboratory analytical results for excavation samples SW04 and FS06 were compliant with the Closure Criteria. The final excavation extents and excavation soil sample locations are presented on Figure 3. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 4. After completion of confirmation sampling, the excavation areas were backfilled.

# **DEFERRAL REQUEST**

Approximately 110 cubic yards of impacted soil were excavated from the Site; however, residual impacted soil was left in place immediately surrounding an active flare stack and flare anchors for compliance with XTO safety policy. Laboratory analytical results for excavation sidewall sample SW03 indicated that soil with chloride concentrations exceeding the Closure Criteria was left in place. Additional excavation was limited by active flares stacks, flare anchors, and overhead anchor lines (reference photos 3 through 6 in Attachment 3).

The impacted soil remaining in place is delineated vertically and laterally by excavation soil samples SW01, SW02, and FS01 through FS06, collected from the sidewalls and floor of the final excavation extents, delineation soil samples PH02/PH02A through PH04/PH04A, and the concrete barrier north of the flare stack. An estimated 67 cubic yards of impacted soil remains in place, assuming a maximum 3-feet depth based on the excavation and delineation soil samples listed above, that were compliant with the Closure Criteria. The deferral area and associated delineation samples are identified on Figure 5.



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XTO requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first. WSP and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The majority of the released fluids from the four release events were consumed by fire or removed during excavation activities. The impacted soil remaining in place is limited to the area immediately adjacent to the active flare stack and anchor points and no saturated soil remains in-place. XTO requests deferral of final remediation for Incident Numbers nAPP2035256230, nAPP2101331137, nAPP2101335437, and nAPP2102237559.

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

Sincerely,

WSP USA Inc.

aeri Jennings

Kalei Jennings Associate Consultant

Ashley L. Ager

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

cc: Kyle Littrell, XTO Ryan Mann, New Mexico State Land Office

Attachments:

- Figure 1 Site Location Map
- Figure 2 Preliminary Soil Sample Locations
- Figure 3 Excavation Soil Sample Locations
- Figure 4 Delineation Soil Sample Locations
- Figure 5 Deferral Area
- Table 1 Soil Analytical Results
- Attachment 1 Referenced Well Records
- Attachment 2 Lithologic/Sampling Log
- Attachment 3 Photographic Log
- Attachment 4 Laboratory Analytical Reports











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#### Table 1

#### Soil Analytical Results Goldenchild CTB Incident Numbers nAPP2035256230, nAPP2101331137, nAPP2101335437, and nAPP2102237559 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 C	losure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	NE	100	600
Surface Samples										
SS01	02/01/2021	0.5	< 0.00202	0.0139	<50.0	336	105	441	441	3,830
SS02	02/01/2021	0.5	< 0.00202	< 0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	2,010
SS03	02/01/2021	0.5	< 0.00202	< 0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	2,580
Delineation Sample	s									
PH01	03/30/2021	1	< 0.00202	< 0.00202	67.8	<50.0	<50.0	67.8	67.8	595
PH01A	03/30/2021	3	< 0.00202	< 0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	685
PH02	03/30/2021	1	< 0.00202	< 0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	554
PH02A	03/30/2021	3	< 0.00200	< 0.00200	<49.7	<49.7	<49.7	<49.7	<49.7	600
PH03	03/30/2021	1	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	485
PH03A	03/30/2021	3	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	234
PH04	04/22/2021	1	< 0.00198	< 0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	16.7
PH04A	04/22/2021	3	< 0.00202	< 0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	14.2
Excavation Floor S	amples									
FS01	03/12/2021	2	< 0.00198	< 0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	202
FS02	03/12/2021	2	< 0.00200	< 0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	432
FS03	03/12/2021	3	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	45.2
FS04	03/12/2021	3	< 0.00198	< 0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	45.1
FS05	03/12/2021	3	< 0.00198	< 0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	31.9
FS06	04/22/2021	4	< 0.00199	0.0221	<50.0	<50.0	<50.0	<50.0	<50.0	21.5

#### Table 1

#### Soil Analytical Results Goldenchild CTB Incident Numbers nAPP2035256230, nAPP2101331137, nAPP2101335437, and nAPP2102237559 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (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	NE	100	600
Excavation Sidewall	Samples									
SW01	03/12/2021	0 - 2	< 0.00199	< 0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	390
SW02	03/12/2021	0 - 3	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	236
SW03	03/12/2021	0 - 3	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	1,430
SW04	04/22/2021	0 - 4	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	21.0

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

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

Text impacted soil was excavated



2904 W 2nd St. Roswell, NM 88201 voice: 575.624.2420 fax: 575.624.2421 www.atkinseng.com

12/16/2020

DII-NMOSE 1900 W 2<sup>nd</sup> Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4493 Pod1

To whom it may concern:

Attached please find a well record and a plugging record, in duplicate, for a one (1) soil borings, C-4493 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Groon Middlam

Lucas Middleton

Enclosures: as noted above

A A CEN

OSE DII DEC 17 2020 PM1:54

USE DIT DEC 17 2020 PM1:54

ST



# PLUGGING RECORD

# NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMA

#### I. GENERAL / WELL OWNERSHIP:

State	Engineer W	ell Number: C-4493-POD1				
Well	owner: XTO	DENERGY (Kyle Littrell)		Phone No.:	432.682.8873	
Maili	ng address:	6401 Holiday Hill Dr.		5.7 · · · · · · · · · · · · · · · · · · ·		
	Midland		State:	Texas	Zip code:	79707

#### **II. WELL PLUGGING INFORMATION:**

1)	Name of well drilling company that plugged well:
2)	New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/21
3)	Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):   Shane Eldridge
4)	Date well plugging began: <u>11/23/2020</u> Date well plugging concluded: <u>11/23/2020</u>
5)	GPS Well Location:Latitude:32deg,9min,9.09secLongitude:-104deg,0min,58.81sec, WGS 84
6)	Depth of well confirmed at initiation of plugging as: ft below ground level (bgl), by the following manner: weighted tape
7)	Static water level measured at initiation of plugging:ft bgl
8)	Date well plugging plan of operations was approved by the State Engineer:11/12/2020
9)	Were all plugging activities consistent with an approved plugging plan? <u>Yes</u> If not, please described differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

# OSE DIT DEC 17 2020 PM1:54

APPL,

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

	FOF each	miter var pluggeu, uest	The within the lonowin	g columns.	
<u>Depth</u> (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	("casing perforated first", "open annular space also plugged", etc.)
	0-40' Portland Type I/II Neat Cement	Approx. 124 gallons	117 gallons	Augers	annular space also plugged", etc.)
		MULTIPLY	BY AND OBTAIN		
		cubic feet x	7.4805 = gallons 1.97 = gallons		
III SIGN	A 701 133 17 .	Leubic yarus it 20	nor – gaitons		

### For each interval plugged, describe within the following columns:

#### **III. SIGNATURE:**

I, <u>Jackie D. Atkins</u>, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins

12/15/2020 Date

Signature of Well Driller

Version: September 8, 2009 Page 2 of 2

# 2020-12-15\_C-4493\_POD1\_OSE\_Well Record and Log\_CAttle-forsign

Created:	2020-12-15	8 3
Ву:	Lucas Middleton (lucas@atkinseng.com)	
Status:	Signed	OSE DII DEC 17 2020 PM1:54
Transaction ID:	CBJCHBCAABAAnq4xUbZe1ADExmp8BGfUeuw8WVrl_oBj	

# "2020-12-15\_C-4493\_POD1\_OSE\_Well Record and Log\_CAttleforsign" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2020-12-15 - 8:38:23 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2020-12-15 - 8:39:02 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2020-12-15 - 11:11:04 PM GMT- IP address: 74.50.153.115
- Document e-signed by Jack Atkins (jack@atkinseng.com) Signature Date: 2020-12-15 - 11:12:51 PM GMT - Time Source: server- IP address: 74.50.153.115
- Agreement completed. 2020-12-15 - 11:12:51 PM GMT





PAGE 1 OF 2

WELL TAG ID NO.



# WELL RECORD & LOG OFFICE OF THE STATE ENGINEER

OSEDITOEC 17 2020 PM1:54

www.ose.state.nm.us

2. DRILLING & CASING INFORMATION 1. GENERAL AND WELL LOCATION	WELL LOCATION (FROM GPS) DESCRIPTION RI SE NE SE Sec LICENSE NO. 1249 DRILLING START 11/18/2020 COMPLETED WE DRILLING FLUID DRILLING METHO DEPTH (feet FROM 0	: 6 T255	ITUDE WELL LOCATION TO	DRILLER Jackie DEPTH OF COMPLE temporary v DRY HOLE MUD HAMMER CASING MAT GR (include each onote sectio	0' 58 ND COMMON LAND	BORE HON CONFINED) ECIFY: To THE CONTINUE CONTINUE	* DATUM RE	DEPTH WATER FIRS	ERE AVAILABLE	
3. ANNULAR MATERIAL	DEPTH (feet FROM	bgl) TO	BORE HOLE DIAM. (inches)		VNULAR SEAL M PACK SIZE-RAN(			AMOUNT (cubic feet)	METHO PLACEN	

LOCATION

	DEPTH (fe	eet bgl)		COLOR AND TYPE OF MATERI		TEPED -	TTZ A T	Ω	ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITI (attach supplemental sheets to fu	ES OR FRAG	CTURE ZONES	WAT BEAR (YES /	ING?	YIELD FOR WATER- BEARING ZONES (gpm)
	0	1	1	Caliche, Poorly consolidated, with grave	el, Off -White	-Light Brown	Y	√ N	
	1	2	1	Sand, Very fine- grained, poorly-grad	led, with cali	che ,Brown	Y	√ N	
	2	14	12	Caliche, Moderately consolidated, with grave	l, Off - White	-Light Brown, Mo	oist Y	✓ N	
	14	29	15	Siltstone, poorly consolidated, low plasticity,	cohesive, with	n sand, Brown, M	oist Y	√N	
	29	57	28	Silty Sandstone, Very fine-grained, well ca	onsolidated, t	race pebbles, wet	✓ Y	N	
3							Y	N	-
ME							Y	N	
5							Y	N	
3							Y	N	
							Y	N	
F							Y	N	
DEC.							Y	N	
R I						_	Y	N	
4. HYDROGEOLOGIC LOG OF WELL							Y	N	
4		-	1.200				Y	N	
							Y	N	
	1	_					Y	N	
	4						Y	N	
							Y	N	
							Y	N	
		_					Y	N	
	METHOD US	SED TO E	STIMATE YIELD	OF WATER-BEARING STRATA:			OTAL ESTIM VELL YIELD		0.00
	PUMP		AIR LIFT	BAILER OTHER – SPECIFY:			WELL HELD	(gpm).	0.00
NOIS	WELL TEST	TEST STAF	RESULTS - ATT TIME, END TI	ACH A COPY OF DATA COLLECTED DUR ME, AND A TABLE SHOWING DISCHARG	ING WELL ? E AND DRA	TESTING, INCLU WDOWN OVER	JDING DISCH THE TESTIN	IARGE N G PERIO	METHOD, D.
TEST; RIG SUPERVISI	MISCELLAN	IEOUS IN	Sa	emporary well materials removed and the s ck per 5.2 gallons of water. ogs adapted from LTE on-site geologist.	soil boring p	lugged using Po	ortland Type	I/II neat	cement 94 lbs
5. TEST	PRINT NAM Shane Eldrid		ORILL RIG SUPE	RVISOR(S) THAT PROVIDED ONSITE SUPP	ERVISION O	F WELL CONST	RUCTION OT	THER TH	AN LICENSEE
SIGNALUKE	CORRECT R	ECORD C	OF THE ABOVE I	FIES THAT, TO THE BEST OF HIS OR HER DESCRIBED HOLE AND THAT HE OR SHE 30 DAYS AFTER COMPLETION OF WELL I	WILL FILE				
0. SIGN	Jack A	tkins		Jackie D. Atkins			12/1		
		SIGNAT	TURE OF DRILLI	ER / PRINT SIGNEE NAME				DATE	
FOI	OSE INTERN	IAL USE				WR-20 WELL	RECORD & I	LOG (Ver	sion 06/30/201
	E NO.			POD NO.	-	TRN NO.		_	
LO	CATION				WEIT	TAG ID NO.			PAGE 2 OF

111	5		5 Car		Si <b>P USA</b> Stevens S w Mexico	itreet 88220			Goldenchil	Date: 3/30/2021 Id 35256230, nAPP2101331137,
			- Cui	100000, 110		UULLU			TE012921	
	LITHC	DLOG	IC / SOIL			G		Logged By WM		Method: Backhoe
Lat/Long:				Field Scre Chloride,				Hole Diameter:		Total Depth: 3'
Comments:				onionao,						С.
Moisture Content Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lit	thology/R	Remarks
442	0.3	Ν	PH01	1'	0		Caliche,	no stain, no odor		
582	0.3	Z	PH01A	3'			Caliche,	no stain, no odor		

								BH or PH Name:		Date:
					WS	P USA		PH02		3/30/2021
				5	08 West S	Stevens S	Street	Site Name: G	oldenchil	d
				Car	08 West S Isbad, Ne	w Mexico	88220	RP or Incident Number:	nAPP203	35256230, nAPP2101331137,
								WSP Job Number: TE	E012921	018
		LITHO	OLOG	SIC / SOIL	. SAMPL	ING LO	G	Logged By WM		Method: Backhoe
Lat/Lo	ng:				Field Scre			Hole Diameter:		Total Depth:
Comm	ents:				Chloride,	PID				3'
Conn	ionto.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Litho	ology/R	lemarks
	442	0.7	N	PH02 PH02A	1' - - - - - - - - - - - - - - - - - - -			no stain, no odor		
					- - - - -	11				

Lat/Lo Comm				5 Car BIC / SOIL	08 West S Isbad, Ne	ING LO	RP or Incident Number: n	Date: 3/30/2021 Idenchild APP2035256230, nAPP2101331137, 012921018 Method: Backhoe Total Depth: 3'	
Moisture Content		Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Litho	logy/Remarks
	364	1.9	Z Z	Ю PH03 PH03A	(it bgs)		S S	no stain, no odor no stain, no odor	
						6 7 8 9 10 11 11			

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220 LITHOLOGIC / SOIL SAMPLING LOG								RP or Incident Number: nA WSP Job Number: TE0	Date: 4/22/2021 denchild .PP2035256230, nAPP2101331137, 12921018	
Lat/Lon	ng:	LITH	JLUG	IIC / SUIL	Field Scre		G		Logged By EN Hole Diameter:	Method: Backhoe Total Depth:
Comme					Chloride,					3'
Comme	ents.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol		Lithold	ogy/Remarks
	296	0.0	Ν	PH04	1' -			Caliche,	no stain, no odor	
	<180	0.0	Ζ	PH04A	3'	3 4 5 6 7 8 9 10 11 11		Caliche,	no stain, no odor	



# PHOTOGRAPHIC LOG

Goldenchild CTB

Eddy County, New Mexico nAPP2035256230, nAPP2101331137, nAPP2101335437, nAPP2102237559



noto No.	Date
2	March 10, 2021
	ation activities at S02 location.



# PHOTOGRAPHIC LOG

# Goldenchild CTB

nAPP2035256230, nAPP2101331137, nAPP2101335437, nAPP2102237559

Eddy County, New Mexico







# PHOTOGRAPHIC LOG

# Goldenchild CTB

nAPP2035256230, nAPP2101331137, nAPP2101335437, nAPP2102237559

Eddy County, New Mexico







# PHOTOGRAPHIC LOG

# Goldenchild CTB

nAPP2035256230, nAPP2101331137, nAPP2101335437, nAPP2102237559

Eddy County, New Mexico





# 1

# 🔅 eurofins

# Environment Testing America

# ANALYTICAL REPORT

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

# Laboratory Job ID: 890-110-1

Client Project/Site: Goldenchlid CTB

# For:

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

Attn: Dan Moir

VRAMER

Authorized for release by: 2/8/2021 6:56:14 PM

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

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

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

LINKS **Review your project** results through Total Access **Have a Question?** Ask-The Expert Visit us at:

www.eurofinsus.com/Env Released to Imaging: 6/28/2022 1:12:34 PM

Laboratory Job ID: 890-110-1

2

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### **Definitions/Glossary**

Client: WSP USA Inc. Project/Site: Goldenchlid CTB Job ID: 890-110-1

Project/Site.		
Qualifiers		3
GC VOA Qualifier	Qualifier Description	4
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		5
Qualifier	Qualifier Description	
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.	
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.	8
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	9
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	13
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	

Negative / Absent

Positive / Present

Presumptive

**Quality Control** 

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

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

Reporting Limit or Requested Limit (Radiochemistry)

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

ND

NEG

POS

PQL

QC

RER

RL

RPD TEF

TEQ

TNTC

PRES

Job ID: 890-110-1

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### Job ID: 890-110-1

### Laboratory: Eurofins Xenco, Carlsbad

#### Narrative

Job Narrative 890-110-1

### Receipt

The samples were received on 2/1/2021 12:11 PM; the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

### GC VOA

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

### HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 890-99 and analytical batch 890-107 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.

Detection Summar	
Client: WSP USA Inc. Project/Site: Goldenchlid CTB	Job ID: 890-110-1
Client Sample ID: SS01 @ 0.3'	Lab Sample ID: 890-110-1
Sample Analysis Not Complete.	
Client Sample ID: SS02 @ 0.3'	Lab Sample ID: 890-110-2
Sample Analysis Not Complete.	5
Client Sample ID: SS03 @ 0.3'	Lab Sample ID: 890-110-3
Sample Analysis Not Complete.	
	8
	9
	1
	1

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This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Carlsbad

Client: WSP USA Inc. Project/Site: Goldenchlid CTB

4-Bromofluorobenzene (Surr)

### Client Sample ID: SS01 @ 0.3' Date Collected: 02/01/21 00:00 Date Received: 02/01/21 12:11

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00202	U	0.00202	mg/Kg		02/01/21 16:19	02/03/21 02:36	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/01/21 16:19	02/03/21 02:36	1
Toluene	0.00504		0.00202	mg/Kg		02/01/21 16:19	02/03/21 02:36	1
Total BTEX	0.0139		0.00202	mg/Kg		02/01/21 16:19	02/03/21 02:36	1
Xylenes, Total	0.00881		0.00202	mg/Kg		02/01/21 16:19	02/03/21 02:36	1
m,p-Xylenes	0.00616		0.00403	mg/Kg		02/01/21 16:19	02/03/21 02:36	1
o-Xylene	0.00265		0.00202	mg/Kg		02/01/21 16:19	02/03/21 02:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	97	;	70 - 130			02/01/21 16:19	02/03/21 02:36	1

### Method: 300.0 - Anions, Ion Chromatography - Soluble

97

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3830		49.5	mg/Kg			02/02/21 12:10	5

70 - 130

Method: SW8015-MOD - SW84	6 8015B TP	H ORO							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	336		50.0		mg/kg		02/03/21 12:00	02/03/21 18:59	1
Gasoline Range Hydrocarbons (GRO)	<50.0		50.0		mg/kg		02/03/21 12:00	02/03/21 18:59	1
Motor Oil Range Hydrocarbons (MRO)	105		50.0		mg/kg		02/03/21 12:00	02/03/21 18:59	1
Total TPH	441		50.0		mg/kg		02/03/21 12:00	02/03/21 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 135				02/03/21 12:00	02/03/21 18:59	1
o-Terphenyl	111		70 - 135				02/03/21 12:00	02/03/21 18:59	1

### Client Sample ID: SS02 @ 0.3' Date Collected: 02/01/21 00:00 Date Received: 02/01/21 12:11

Method: 8021B - Volatile O	rganic Compo	unds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00202	U	0.00202	mg/Kg		02/01/21 16:19	02/03/21 02:59	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/01/21 16:19	02/03/21 02:59	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/01/21 16:19	02/03/21 02:59	1
Total BTEX	<0.00202	U	0.00202	mg/Kg		02/01/21 16:19	02/03/21 02:59	1
Xylenes, Total	<0.00202	U	0.00202	mg/Kg		02/01/21 16:19	02/03/21 02:59	1
m,p-Xylenes	< 0.00403	U	0.00403	mg/Kg		02/01/21 16:19	02/03/21 02:59	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/01/21 16:19	02/03/21 02:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	99		70 - 130			02/01/21 16:19	02/03/21 02:59	1
4-Bromofluorobenzene (Surr)	100		70 - 130			02/01/21 16:19	02/03/21 02:59	1
Method: 300.0 - Anions, lo	n Chromatogra	iphy - Soli	ıble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2010		49.5	mg/Kg			02/02/21 12:16	5

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### Lab Sample ID: 890-110-1 Matrix: Solid

02/01/21 16:19 02/03/21 02:36

Lab Sample ID: 890-110-2

Matrix: Solid

6

1

Eurofins Xenco, Carlsbad

Released to Imaging: 6/28/2022 1:12:34 PM

Client: WSP USA Inc. Project/Site: Goldenchlid CTB

### Client Sample ID: SS02 @ 0.3' Date Collected: 02/01/21 00:00 Date Received: 02/01/21 12:11

Method: SW8015-MOD - SW84	6 8015B TP	PH ORO							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0		50.0		mg/kg		02/03/21 12:00	02/03/21 19:20	1
Gasoline Range Hydrocarbons (GRO)	<50.0		50.0		mg/kg		02/03/21 12:00	02/03/21 19:20	1
Motor Oil Range Hydrocarbons (MRO)	<50.0		50.0		mg/kg		02/03/21 12:00	02/03/21 19:20	1
Total TPH	<50.0		50.0		mg/kg		02/03/21 12:00	02/03/21 19:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 135				02/03/21 12:00	02/03/21 19:20	1
o-Terphenyl	109		70 - 135				02/03/21 12:00	02/03/21 19:20	1
- Client Sample ID: SS03 @	0.3'						Lab Sam	ple ID: 890-	-110-3

#### С ample ID: ວວບວ ພ ບ. Date Collected: 02/01/21 00:00

Date Received: 02/01/21 12:11

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00202	U	0.00202	mg/Kg		02/01/21 16:19	02/03/21 03:21	1	
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/01/21 16:19	02/03/21 03:21	1	
Toluene	<0.00202	U	0.00202	mg/Kg		02/01/21 16:19	02/03/21 03:21	1	
Total BTEX	<0.00202	U	0.00202	mg/Kg		02/01/21 16:19	02/03/21 03:21	1	
Xylenes, Total	<0.00202	U	0.00202	mg/Kg		02/01/21 16:19	02/03/21 03:21	1	
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		02/01/21 16:19	02/03/21 03:21	1	
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/01/21 16:19	02/03/21 03:21	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,4-Difluorobenzene	99		70 - 130			02/01/21 16:19	02/03/21 03:21	1	
4-Bromofluorobenzene (Surr)	103		70 - 130			02/01/21 16:19	02/03/21 03:21	1	

#### Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit Prepared D Analyzed Chloride 2580 49.6 02/02/21 12:21 mg/Kg

Method:	SW8015-MOD	- SW846	8015B	ТРН	ORO
mounou.		011040	00100		00

108

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0		50.0		mg/kg		02/03/21 12:00	02/03/21 19:42	1
Gasoline Range Hydrocarbons (GRO)	<50.0		50.0		mg/kg		02/03/21 12:00	02/03/21 19:42	1
Motor Oil Range Hydrocarbons (MRO)	<50.0		50.0		mg/kg		02/03/21 12:00	02/03/21 19:42	1
Total TPH	<50.0		50.0		mg/kg		02/03/21 12:00	02/03/21 19:42	1
Surrogate 1-Chlorooctane	%Recovery 98	Qualifier	Limits				Prepared 02/03/21 12:00	Analyzed 02/03/21 19:42	Dil Fac

70 - 135

02/03/21 12:00 02/03/21 19:42

5 6

o-Terphenyl

Job ID: 890-110-1

### Lab Sample ID: 890-110-2 Matrix: Solid

Matrix: Solid

Dil Fac

5

1

### **Surrogate Summary**

Client: WSP USA Inc. Project/Site: Goldenchlid CTB

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

_		Percent Surrogate Recovery (Acceptance Limits)					
		DFBZ1	BFB1				
Lab Sample ID	Client Sample ID	(70-130)	(70-130)				
890-110-1	SS01 @ 0.3'	97	97				
890-110-2	SS02 @ 0.3'	99	100				
890-110-3	SS03 @ 0.3'	99	103				
LCS 890-89/2-A	Lab Control Sample	93	98				
LCSD 890-89/3-A	Lab Control Sample Dup	96	94				
MB 890-89/1-A	Method Blank	99	99				
• • • •							
Surrogate Legend							

DFBZ = 1,4-Difluorobenzene

BFB = 4-Bromofluorobenzene (Surr)

#### Method: SW8015-MOD - SW846 8015B TPH ORO 0 - 11 -

Matrix: Solid				Prep Type: Total/NA	
			Pe	rcent Surrogate Recovery (Acceptance Limits)	
		1CO	ОТРН		
Lab Sample ID	Client Sample ID	(70-135)	(70-135)		
890-110-1	SS01 @ 0.3'	103	111		
890-110-2	SS02 @ 0.3'	102	109		
890-110-3	SS03 @ 0.3'	98	108		

### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-110-1

Prep Type: Total/NA

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Client: WSP USA Inc. Project/Site: Goldenchlid CTB

Lab Sample ID: MB 890-89/1-A

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

Matrix: Solid Analysis Batch: 113							Prep Type: To Prep Ba	
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D Prep	bared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	02/01/2	21 16:19	02/02/21 19:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	02/01/2	21 16:19	02/02/21 19:48	1
Toluene	<0.00200	U	0.00200	mg/Kg	02/01/2	21 16:19	02/02/21 19:48	1
Total BTEX	<0.00200	U	0.00200	mg/Kg	02/01/2	21 16:19	02/02/21 19:48	1
Xylenes, Total	<0.00200	U	0.00200	mg/Kg	02/01/2	21 16:19	02/02/21 19:48	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg	02/01/2	21 16:19	02/02/21 19:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg	02/01/2	21 16:19	02/02/21 19:48	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits		Prep	bared	Analyzed	Dil Fac
1,4-Difluorobenzene	99		70 - 130		02/01/2	21 16:19	02/02/21 19:48	1
4-Bromofluorobenzene (Surr)	99		70 - 130		02/01/2	21 16:19	02/02/21 19:48	1

### Lab Sample ID: LCS 890-89/2-A Matrix: Solid Analysis Batch: 113

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09618		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.09901		mg/Kg		99	71_129	
Toluene	0.100	0.09831		mg/Kg		98	70 - 130	
m,p-Xylenes	0.200	0.2015		mg/Kg		101	70 - 135	
o-Xylene	0.100	0.1002		mg/Kg		100	71 - 133	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene	93		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130

### Lab Sample ID: LCSD 890-89/3-A Matrix: Solid Analysis Batch: 113

Analysis Batch: 113							Pre	ep Bato	:h: 89
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09257		mg/Kg		93	70 - 130	4	35
Ethylbenzene	0.100	0.09159		mg/Kg		92	71_129	8	35
Toluene	0.100	0.09376		mg/Kg		94	70 - 130	5	35
m,p-Xylenes	0.200	0.1857		mg/Kg		93	70 - 135	8	35
o-Xylene	0.100	0.09487		mg/Kg		95	71 - 133	5	35
L	.CSD LCSD								

Surrogate	%Recovery Qualifi	er Limits
1,4-Difluorobenzene	96	70 - 130
4-Bromofluorobenzene (Surr)	94	70 - 130

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

**Client Sample ID: Lab Control Sample Dup** 

**Prep Type: Total/NA** 

Type: Total/NA	
Prep Batch: 89	

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

Job ID: 890-110-1

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Client: WSP USA Inc. Project/Site: Goldenchlid CTB

8

Job ID: 890-110-1

Method: 300.0 - Anions, Ion Chromatography Lab Sample ID: MB 890-99/11-A Client Sample ID: Method Blank Matrix: Solid **Prep Type: Soluble Analysis Batch: 107** MB MB **Result Qualifier** RL Unit Analyzed Dil Fac Analyte D Prepared 9.96 02/02/21 10:11 Chloride <9.96 U mg/Kg 1 Lab Sample ID: LCS 890-99/12-A **Client Sample ID: Lab Control Sample** Matrix: Solid **Prep Type: Soluble** Analysis Batch: 107 Spike LCS LCS %Rec. Added **Result Qualifier** Unit D %Rec Limits Analyte 202 202.4 90 - 110 Chloride mg/Kg 100 Lab Sample ID: LCSD 890-99/13-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** Analysis Batch: 107 Spike LCSD LCSD %Rec. RPD Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 199 194.1 98 90 - 110 20 mg/Kg 4 Lab Sample ID: 890-110-3 MS Client Sample ID: SS03 @ 0.3' Matrix: Solid **Prep Type: Soluble** Analysis Batch: 107 Spike MS MS %Rec. Sample Sample Analyte **Result Qualifier** Added **Result Qualifier** Unit %Rec Limits D Chloride 2580 90 - 110 101 2811 4 mg/Kg 230 Lab Sample ID: 890-110-3 MSD Client Sample ID: SS03 @ 0.3' Matrix: Solid **Prep Type: Soluble Analysis Batch: 107** MSD MSD RPD Sample Sample Spike %Rec. Analyte **Result Qualifier** Added **Result Qualifier** RPD Unit D %Rec Limits Limit Chloride 2580 101 2752 4 171 90 - 110 mg/Kg 2 20 Lab Sample ID: MB 890-138/1-A **Client Sample ID: Method Blank** Matrix: Solid **Prep Type: Soluble Analysis Batch: 130** MB MB **Result Qualifier** Analyte RL Unit D Dil Fac Prepared Analyzed 9.96 02/03/21 11:27 Chloride <9.96 U mg/Kg 1 Lab Sample ID: LCS 890-138/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid **Prep Type: Soluble Analysis Batch: 130** Spike LCS LCS %Rec. Added Analyte Result Qualifier D Limits Unit %Rec Chloride 505 494.6 mg/Kg 98 90 - 110 Lab Sample ID: LCSD 890-138/3-A **Client Sample ID: Lab Control Sample Dup** Matrix: Solid **Prep Type: Soluble** Analysis Batch: 130 Spike LCSD LCSD %Rec. RPD RPD Added **Result Qualifier** Limits Unit D %Rec Limit

Eurofins Xenco, Carlsbad

90 - 110

97

481.7

mg/Kg

497

20

3

Client: WSP USA Inc. Project/Site: Goldenchlid CTB

Method: 300.0 - Anions, Ion Chromatography

_ Lab Sample ID: 890-110-3 M	S							С	lient Sar	nple ID:	SS03 (	@ 0.3'
Matrix: Solid										Prep T		-
Analysis Batch: 130												
-	Sample	Sample	Spike	MS	MS					%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	2610		503	2979	4	mg/Kg		_	74	90 - 110		
Lab Sample ID: 890-110-3 M	SD							С	lient Sar	nple ID:	SS03 (	@ 0.3'
Matrix: Solid										Prep T	ype: So	oluble
Analysis Batch: 130												
	Sample	Sample	Spike	MSD	MSD					%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride	2610		504	2957	4	mg/Kg		_	69	90 - 110	1	20
Method: SW8015-MOD -	SW846	8015B TP	H ORO									
Lab Sample ID: 7720753-1-B Matrix: SOIL Analysis Batch: 3149994								Clie		ole ID: M Prep Ty p Batch	pe: Tot	tal/NA
		ANK BLANK										
Analyte	Re	sult Qualifie	r	RL	MDL Unit		D		repared	Analy		Dil Fac
Diesel Range Organics (DRO)		U		50	mg/k	-			3/21 12:00			1
Gasoline Range Hydrocarbons (GRO)		U		50	mg/k	-			3/21 12:00			
Motor Oil Range Hydrocarbons (MRO	)	U		50	mg/k	g		02/0	3/21 12:00	02/03/21	11:40	1
Lab Sample ID: 7720753-1-B Matrix: SOIL	KS					Clie	ent	Sar	nple ID:	Lab Cor Prep Ty		
Analysis Batch: 3149994									Pre	p Batch		
,			Spike	LCS	LCS					%Rec.		
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits		
Diesel Range Organics (DRO)			1000	871		mg/kg		_	87	70 - 135		
Gasoline Range Hydrocarbons (GRO)			1000	866	i	mg/kg			87	70 - 135		
- ` ` `											<u> </u>	_
Lab Sample ID: 7720753-1-B Matrix: SOIL	50					client Sa	am	pie	ID: Lab	Control Prep Ty		
Analysis Batch: 3149994									Pre	p Batch		
			Spike	LCSD	LCSD					%Rec.		RPC
Analyte			Added	-	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Diesel Range Organics (DRO)			1000	1070	· <u>· · · · · · · · · · · · · · · · · · </u>	mg/kg		_	107	70 - 135	21	2
Gasoline Range Hydrocarbons			1000	1080		mg/kg			108	70 - 135	22	20
(GRO)												20

5

Job ID: 890-110-1

Client: WSP USA Inc. Project/Site: Goldenchlid CTB

### GC VOA

### Prep Batch: 89

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-110-1	SS01 @ 0.3'	Total/NA	Solid	5030C	
890-110-2	SS02 @ 0.3'	Total/NA	Solid	5030C	
890-110-3	SS03 @ 0.3'	Total/NA	Solid	5030C	
MB 890-89/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 890-89/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 890-89/3-A	Lab Control Sample Dup	Total/NA	Solid	5030C	

### Analysis Batch: 113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-110-1	SS01 @ 0.3'	Total/NA	Solid	8021B	89
890-110-2	SS02 @ 0.3'	Total/NA	Solid	8021B	89
890-110-3	SS03 @ 0.3'	Total/NA	Solid	8021B	89
MB 890-89/1-A	Method Blank	Total/NA	Solid	8021B	89
LCS 890-89/2-A	Lab Control Sample	Total/NA	Solid	8021B	89
LCSD 890-89/3-A	Lab Control Sample Dup	Total/NA	Solid	8021B	89

### HPLC/IC

### Leach Batch: 99

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-110-1	SS01 @ 0.3'	Soluble	Solid	DI Leach	
890-110-2	SS02 @ 0.3'	Soluble	Solid	DI Leach	
890-110-3	SS03 @ 0.3'	Soluble	Solid	DI Leach	
MB 890-99/11-A	Method Blank	Soluble	Solid	DI Leach	
LCS 890-99/12-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 890-99/13-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-110-3 MS	SS03 @ 0.3'	Soluble	Solid	DI Leach	
890-110-3 MSD	SS03 @ 0.3'	Soluble	Solid	DI Leach	

### Analysis Batch: 107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-110-1	SS01 @ 0.3'	Soluble	Solid	300.0	99
890-110-2	SS02 @ 0.3'	Soluble	Solid	300.0	99
890-110-3	SS03 @ 0.3'	Soluble	Solid	300.0	99
MB 890-99/11-A	Method Blank	Soluble	Solid	300.0	99
LCS 890-99/12-A	Lab Control Sample	Soluble	Solid	300.0	99
LCSD 890-99/13-A	Lab Control Sample Dup	Soluble	Solid	300.0	99
890-110-3 MS	SS03 @ 0.3'	Soluble	Solid	300.0	99
890-110-3 MSD	SS03 @ 0.3'	Soluble	Solid	300.0	99

### Analysis Batch: 130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 890-138/1-A	Method Blank	Soluble	Solid	300.0	138
LCS 890-138/2-A	Lab Control Sample	Soluble	Solid	300.0	138
LCSD 890-138/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	138
890-110-3 MS	SS03 @ 0.3'	Soluble	Solid	300.0	138
890-110-3 MSD	SS03 @ 0.3'	Soluble	Solid	300.0	138
Leach Batch: 138					
I ab Sample ID	Client Sample ID	Pren Type	Matrix	Method	Pren Batch

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 890-138/1-A	Method Blank	Soluble	Solid	DI Leach	

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Client: WSP USA Inc. Project/Site: Goldenchlid CTB

### HPLC/IC (Continued)

### Leach Batch: 138 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 890-138/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 890-138/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-110-3 MS	SS03 @ 0.3'	Soluble	Solid	DI Leach	
890-110-3 MSD	SS03 @ 0.3'	Soluble	Solid	DI Leach	

### Subcontract

### Analysis Batch: 3149994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-110-1	SS01 @ 0.3'	Total/NA	Solid	SW8015-MOD	3149994_P
890-110-2	SS02 @ 0.3'	Total/NA	Solid	SW8015-MOD	3149994_P
890-110-3	SS03 @ 0.3'	Total/NA	Solid	SW8015-MOD	3149994_P
7720753-1-BLK	Method Blank	Total/NA	SOIL	SW8015-MOD	3149994_P
7720753-1-BKS	Lab Control Sample	Total/NA	SOIL	SW8015-MOD	3149994_P
7720753-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	SW8015-MOD	3149994_P
Prep Batch: 31499	94 P				

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-110-1	SS01 @ 0.3'	Total/NA	Solid	SW8015P	
890-110-2	SS02 @ 0.3'	Total/NA	Solid	SW8015P	
890-110-3	SS03 @ 0.3'	Total/NA	Solid	SW8015P	
7720753-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7720753-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7720753-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	

### Page 47 of 99

Job ID: 890-110-1

# Lab Sample ID: 890-110-1

Lab Sample ID: 890-110-2

Matrix: Solid

Date Collected: 02/01/21 00:00 Date Received: 02/01/21 12:11

Client Sample ID: SS01 @ 0.3'

Project/Site: Goldenchlid CTB

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	L
Total/NA	Prep	5030C			89	02/01/21 16:19	MC	
Total/NA	Analysis	8021B		1	113	02/03/21 02:36	MC	>
Soluble	Leach	DI Leach			99	02/01/21 17:00	MC	)
Soluble	Analysis	300.0		5	107	02/02/21 12:10	MC	Х
Total/NA	Prep	SW8015P		1	3149994_P	02/03/21 12:00		Х
Total/NA	Analysis	SW8015-MOD		1	3149994	02/03/21 18:59	ARM	>

### Client Sample ID: SS02 @ 0.3' Date Collected: 02/01/21 00:00 Date Received: 02/01/21 12:11

	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			89	02/01/21 16:19	МС	XC
Total/NA	Analysis	8021B		1	113	02/03/21 02:59	MC	XC
Soluble	Leach	DI Leach			99	02/01/21 17:00	MC	XC
Soluble	Analysis	300.0		5	107	02/02/21 12:16	MC	XC
Total/NA	Prep	SW8015P		1	3149994_P	02/03/21 12:00		XM
Total/NA	Analysis	SW8015-MOD		1	3149994	02/03/21 19:20	ARM	XM

### Client Sample ID: SS03 @ 0.3' Date Collected: 02/01/21 00:00 Date Received: 02/01/21 12:11

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			89	02/01/21 16:19	MC	XC
Total/NA	Analysis	8021B		1	113	02/03/21 03:21	MC	XC
Soluble	Leach	DI Leach			99	02/01/21 17:00	MC	XC
Soluble	Analysis	300.0		5	107	02/02/21 12:21	MC	XC
Total/NA	Prep	SW8015P		1	3149994_P	02/03/21 12:00		XM
Total/NA	Analysis	SW8015-MOD		1	3149994	02/03/21 19:42	ARM	XM

### Laboratory References:

XC = Eurofins Xenco, Carlsbad, 1089 N Canal St., Carlsbad, NM 88220, TEL (575)988-3199

# Matrix: Solid

### Lab Sample ID: 890-110-3 **Matrix: Solid**

**Accreditation/Certification Summary** 

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Authority       Program       Identification Number       Expiration Date         Louisiana       NELAP       05092       06-30-21         The following analytes are included in this report, but the laboratory is not certified by the governing authority.       This list may include analytes for whith the agency does not offer certification.         Analysis Method       Prep Method       Matrix       Analyte         8021B       5030C       Solid       Total BTEX         Caboratory: Eurofins Midland       Program       Identification Number       Expiration Date         he accreditations/certifications listed below are applicable to this report.       Program       Identification Number       Expiration Date         Authority       Program       NELAP       Identification Number       Expiration Date         Texas       NELAP       Identification Number       Expiration Date
Analysis Method       Prep Method       Matrix       Analyte         B021B       5030C       Solid       Total BTEX         Booratory: Eurofins Midland       e accreditations/certifications listed below are applicable to this report.       Identification Number       Expiration Date
the agency does not offer certification.          Analysis Method       Prep Method       Matrix       Analyte         8021B       5030C       Solid       Total BTEX         aboratory: Eurofins Midland         e accreditations/certifications listed below are applicable to this report.         Method to this report.
Analysis Method       Prep Method       Matrix       Analyte         8021B       5030C       Solid       Total BTEX         Aboratory: Eurofins Midland       Analyte       Description       Matrix       Analyte         accreditations/certifications listed below are applicable to this report.       Identification Number       Expiration Date
8021B     5030C     Solid     Total BTEX       Iboratory: Eurofins Midland     Eurofins Midland     Eurofications listed below are applicable to this report.       uthority     Program     Identification Number     Expiration Date
aboratory: Eurofins Midland         e accreditations/certifications listed below are applicable to this report.         uthority       Program       Identification Number       Expiration Date
e accreditations/certifications listed below are applicable to this report.           uthority         Program         Identification Number         Expiration Date
uthority Program Identification Number Expiration Date
exas NELAP T104704400-20-21 06-30-21

.

### **Method Summary**

### Client: WSP USA Inc. Project/Site: Goldenchlid CTB

### Job ID: 890-110-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XC
300.0	Anions, Ion Chromatography	MCAWW	XC
5030C	Purge and Trap	SW846	XC
DI Leach	Deionized Water Leaching Procedure	ASTM	XC

### Protocol References:

ASTM = ASTM International

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

#### Laboratory References:

XC = Eurofins Xenco, Carlsbad, 1089 N Canal St., Carlsbad, NM 88220, TEL (575)988-3199

Eurofins Xenco, Carlsbad

### **Sample Summary**

Client: WSP USA Inc. Project/Site: Goldenchlid CTB

**13** 14

Job ID: 890-110-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset
890-110-1	SS01 @ 0.3'	Solid	02/01/21 00:00	02/01/21 12:11	
890-110-2	SS02 @ 0.3'	Solid	02/01/21 00:00	02/01/21 12:11	
890-110-3	SS03 @ 0.3'	Solid	02/01/21 00:00	02/01/21 12:11	

Eurofins Xenco, Carlsbad

Revised Date 051418 Rev 2018 1		ō				o o
		2-1.21 1211 2	de la	(soel)		3 Park
Received by: (Signature) Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Received	y∶ (Signature)	Relinquished by: (Signature)
and conditions yond the control negotiated.	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subc of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if su- of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terr	utes a valid purchase order fro assume any responsibility for a a charge of \$5 for each sample	Jishment of samples consti st of samples and shall not applied to each project an	document and relinqu a liable only for the co harge of \$75.00 will be	
Ni K Se Ag SiO2 Na Sr TI Sn U V Zn 1631/245,1/7470/7471:Hg	Ca Cr Co Cu	vi Sb As Ba Be B Sb As Ba Be Cd	8RCRA 13PPM Texas 11 A TCLP / SPLP 6010: 8RCRA	ω	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	21 1:20 Total 200.7 / 6010 Circle Method(s) a
						0.14
890-110 Chain of Custody	P					
e		< « 4	t	e		503
						5503
Clisente		́ Х X X	0.3	IPIIR S		5501
Sample Comments		Numb TPH (E BTEX ( Chloric	Time Depth Sampled	Matrix Date Sampled	ntification	Sample Identification
lab, if received by 4:30pm		PA 80	Total Containers:	N/A		Sample Custody Seals
TAT starts the day receiied by the		015) 0=80	Correction Factor: -O Z	N/A	Ye	Cooler Custody Seals:
		)21)	NM-BOT		(Yeg	Received Intact:
16/21/1			Thermometer ID		A 0.0	Temperature (°C):
16/3/1			Wet Ice: Yes No	Temp Blank: Yes No		SAMPLE RECEIPT
11/11			I Due Date:	Jeremy Hill		Sampler's Name:
Sall detes			Rush:	ald a district	Sallation a	P.O. Number:
CC#			Routine	815	75013421018	Project Number:
Work Order Notes	ANALYSIS REQUEST		Turn Around	L CIN Brd	Goldench. Let	Project Name:
EDD ADaPT Other:	n Deliverables: EDD	vsp.com, Dan.Moir@wsp.com	Email: Jeremy.Hill@wsp.com.		(432) 236-3849	Phone:
	Reporting:Level II	Carlsbad, NM 88220	City, State ZIP:	705	Midland, TX 79705	City, State ZIP:
	State of Project:	522 W. Mermod St.	Address:	Street	3300 North A Street	Address:
37/PST _RP _rownfields _RC {?perfund	Program: UST/PST		Company Name:		WSP USA	Company Name:
Work Order Comments		t) Kyle Littrell	Bill to: (if different)		Dan Moir	Project Manager:
www.xenco.com Page of	Midiand, I X (432-704-5440) EL Paso, I X (915)565-3443 Lubbock, I X (905)794-1290 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	Midiand, I X (432-704-5440) EL Paso, I X (915)555-3443 Lubbock, I X 75-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800	Midland, LX (432-704-5 ,NM (575-392-7550) Phoenix	e الله Hobbs	BURATOR	
•	San Antonio, TX (210) 509-3334	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334	Houston,TX (281) 240-4	Ö		age
Work Order No:	stody	Chain of Custody				)

2/8/2021

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### Login Sample Receipt Checklist

Client: WSP USA Inc.

### Login Number: 110 List Number: 1 Creator: Clifton, Cloe

<6mm (1/4").

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

Job Number: 890-110-1

List Source: Eurofins Carlsbad

Received by OCD: 6/1/2021 1:28:14 PM

# ~ \*

# 🔅 eurofins

# Environment Testing America

# ANALYTICAL REPORT

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

### Laboratory Job ID: 890-335-1

Laboratory Sample Delivery Group: TE012921018 Client Project/Site: Golden Child CTB

### For:

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

Attn: Dan Moir

RAMER

Authorized for release by: 3/18/2021 4:14:27 PM

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

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

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

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at: www.eurofinsus.com/Env

Released to Imaging: 6/28/2022 1:12:34 PM

Laboratory Job ID: 890-335-1 SDG: TE012921018

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QC Association Summary	16
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Sample Summary	23
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Client: WSP USA Inc.
Project/Site: Golden Child CTB

Detection Limit (DoD/DOE)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Method Detection Limit Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive

**Quality Control** 

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Limit of Quantitation (DoD/DOE)

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

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

Minimum Detectable Activity (Radiochemistry)

DL

DLC

EDL

LOD

LOQ

MCL MDA

MDC

MDL

MQL

NC

ND

NEG

POS

PQL

QC

RL

RER

RPD

TEF

TEQ

TNTC

PRES

ML MPN

DL, RA, RE, IN

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: 6/1/2021 1:28:14 PM Page 56 of	99
Definitions/Glossary	1
JSA Inc. Job ID: 890-335-1 Solden Child CTB SDG: TE012921018	2
	3
Qualifier Description	
RPD exceeded lab control limits.	
Analyte was not detected.	5
MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference	
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	
Percent Recovery	0
Contains Free Liquid	0
Colony Forming Unit	
Contains No Free Liquid	9
Duplicate Error Ratio (normalized absolute difference)	
Dilution Factor	
	Definitions/Glossary         SA Inc.       Job ID: 890-335-1         solden Child CTB       SDG: TE012921018         Qualifier Description       RPD exceeded lab control limits.         Analyte was not detected.       MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference         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         Percent Recovery       Contains Free Liquid         Contains No Free Liquid       Duplicate Error Ratio (normalized absolute difference)

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

**Eurofins Carlsbad** 

Job ID: 890-335-1 SDG: TE012921018

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### Job ID: 890-335-1

### Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-335-1

### Receipt

The samples were received on 3/12/2021 2:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.4° C.

### **Receipt Exceptions**

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: SW01 (890-335-1), SW02 (890-335-2), SW03 (890-335-3), FS01 (890-335-4), FS02 (890-335-5), FS03 (890-335-6), FS04 (890-335-7) and FS05 (890-335-8).

Client: WSP USA Inc. Project/Site: Golden Child CTB

### Client Sample ID: SW01 Date Collected: 03/12/21 08:25 Date Received: 03/12/21 14:20

Method: BTEX 8021 - Ge	neral Subcontrac	ct Method							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	UXF	0.00199		mg/kg		03/15/21 09:00	03/15/21 14:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		03/15/21 09:00	03/15/21 14:50	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/15/21 09:00	03/15/21 14:50	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/15/21 09:00	03/15/21 14:50	1
Toluene	<0.00199	U	0.00199		mg/kg		03/15/21 09:00	03/15/21 14:50	1
Total BTEX	<0.00199	U	0.00199		mg/kg		03/15/21 09:00	03/15/21 14:50	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/15/21 09:00	03/15/21 14:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	101		70 - 130				03/15/21 09:00	03/15/21 14:50	1
4-Bromofluorobenzene	114		70 - 130				03/15/21 09:00	03/15/21 14:50	1

### Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	390		5.00		mg/kg		03/15/21 14:45	03/15/21 21:46	1

Method: TPH 8015_NM_MOD	- General S	ubcontract	t Method						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/16/21 12:00	03/16/21 11:49	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/16/21 12:00	03/16/21 11:49	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/16/21 12:00	03/16/21 11:49	1
Total TPH	<50.0	U	50.0		mg/kg		03/16/21 12:00	03/16/21 11:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 135				03/16/21 12:00	03/16/21 11:49	1
o-Terphenyl	96		70 - 135				03/16/21 12:00	03/16/21 11:49	1

### Client Sample ID: SW02

### Date Collected: 03/12/21 11:20 Date Received: 03/12/21 14:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199		mg/kg		03/15/21 09:00	03/15/21 15:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		03/15/21 09:00	03/15/21 15:11	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/15/21 09:00	03/15/21 15:11	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/15/21 09:00	03/15/21 15:11	1
Toluene	<0.00199	U	0.00199		mg/kg		03/15/21 09:00	03/15/21 15:11	1
Total BTEX	<0.00199	U	0.00199		mg/kg		03/15/21 09:00	03/15/21 15:11	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/15/21 09:00	03/15/21 15:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	103		70 - 130				03/15/21 09:00	03/15/21 15:11	1
4-Bromofluorobenzene	111		70 - 130				03/15/21 09:00	03/15/21 15:11	1
Method: CHLORIDE E300	) - General Subc	ontract Me	thod						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	236		5.02		mg/kg		03/15/21 14:45	03/15/21 21:51	1
		. h o o ntro oi	t Method						
Method: TPH 8015_NM_N	IOD - General Si	upcontract							
Method: TPH 8015_NM_N Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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Job ID: 890-335-1 SDG: TE012921018

### Lab Sample ID: 890-335-1

Lab Sample ID: 890-335-2

Matrix: Solid

Matrix: Solid

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Job ID: 890-335-1
SDG: TE012921018

Matrix: Solid

Lab Sample ID: 890-335-2

### **Client Sample ID: SW02** Date Collected: 03/12/21 11:20 Date Received: 03/12/21 14:20

Project/Site: Golden Child CTB

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/16/21 12:00	03/16/21 12:53	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/16/21 12:00	03/16/21 12:53	1
Total TPH	<50.0	U	50.0		mg/kg		03/16/21 12:00	03/16/21 12:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 135				03/16/21 12:00	03/16/21 12:53	1
o-Terphenyl	88		70 - 135				03/16/21 12:00	03/16/21 12:53	1
lient Sample ID: SW03							Lab Sam	ple ID: 890-	335-3
Date Collected: 03/12/21 11:25							Lab Sam	•	335-3 : Solid
Client Sample ID: SW03 Date Collected: 03/12/21 11:25 Date Received: 03/12/21 14:20 Method: BTEX 8021 - General	Subcontrac	ct Method					Lab Sam	•	
Date Collected: 03/12/21 11:25 Date Received: 03/12/21 14:20 Method: BTEX 8021 - General		ct Method Qualifier	RL	MDL	Unit	D	Lab Sam	•	: Solid
ate Collected: 03/12/21 11:25 ate Received: 03/12/21 14:20 Method: BTEX 8021 - General Analyte		Qualifier	RL 	MDL	Unit mg/kg	<u>D</u>		Matrix	: Solid
Date Collected: 03/12/21 11:25 Date Received: 03/12/21 14:20	Result	Qualifier		MDL		<u>D</u>	Prepared	Matrix	

o-Xylene	<0.00200 U	0.00200	mg/kg	03/15/21 09:00	03/15/21 15:31	1
Toluene	<0.00200 U	0.00200	mg/kg	03/15/21 09:00	03/15/21 15:31	1
Total BTEX	<0.00200 U	0.00200	mg/kg	03/15/21 09:00	03/15/21 15:31	1
Total Xylenes	<0.00200 U	0.00200	mg/kg	03/15/21 09:00	03/15/21 15:31	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	105	70 - 130		03/15/21 09:00	03/15/21 15:31	1
4-Bromofluorobenzene	117	70 - 130		02/15/21 00:00	03/15/21 15:31	1

Method: CHLORIDE E300 - General Subcontract Method	

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1430		24.9		mg/kg		03/15/21 14:45	03/15/21 22:08	5
Method: TPH 8015_NM_MOD ·	General S	ubcontrac	t Method						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/16/21 12:00	03/16/21 13:14	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/16/21 12:00	03/16/21 13:14	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/16/21 12:00	03/16/21 13:14	1
Total TPH	<50.0	U	50.0		mg/kg		03/16/21 12:00	03/16/21 13:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 135				03/16/21 12:00	03/16/21 13:14	1

70 - 135

### **Client Sample ID: FS01** Date Collected: 03/12/21 08:30 Date Received: 03/12/21 14:20

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/kg		03/15/21 09:00	03/15/21 15:51	1
Ethylbenzene	<0.00198	U	0.00198		mg/kg		03/15/21 09:00	03/15/21 15:51	1
m,p-Xylenes	<0.00397	U	0.00397		mg/kg		03/15/21 09:00	03/15/21 15:51	1
o-Xylene	<0.00198	U	0.00198		mg/kg		03/15/21 09:00	03/15/21 15:51	1
Toluene	<0.00198	U	0.00198		mg/kg		03/15/21 09:00	03/15/21 15:51	1

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03/16/21 12:00 03/16/21 13:14

Lab Sample ID: 890-335-4

1

Matrix: Solid

Client: WSP USA Inc. Project/Site: Golden Child CTB

### **Client Sample ID: FS01** Date Collected: 03/12/21 08:30 Date Received: 03/12/21 14:20

Date Received: 03/12/21 14:	20							
Method: BTEX 8021 - Gene	eral Subcontra	ct Method	(Continued)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Total BTEX	<0.00198	U	0.00198		mg/kg		03/15/21 09:00	03/15/21 15:5
Total Xylenes	<0.00198	U	0.00198		mg/kg		03/15/21 09:00	03/15/21 15:5

Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed	
1,4-Difluorobenzene	105	70 - 130	03/15/21 09:00 03/15/21 15:5	1
4-Bromofluorobenzene	116	70 - 130	03/15/21 09:00 03/15/21 15:5	1

Method: CHLORIDE E300 - General	Sub	oco	onti	ract Method
	-	<b>.</b> .	-	

Analyte	Result Qualifie	er RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Chloride	202	4.95	mg/kg	03/15/21 14:45	03/15/21 22:14	1

Method: TPH 8015_NM_MOD -	<ul> <li>General S</li> </ul>	ubcontract	t Method						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/16/21 12:00	03/16/21 13:35	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/16/21 12:00	03/16/21 13:35	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/16/21 12:00	03/16/21 13:35	1
Total TPH	<50.0	U	50.0		mg/kg		03/16/21 12:00	03/16/21 13:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 135	03/16/21 12:00	03/16/21 13:35	1
o-Terphenyl	87		70 - 135	03/16/21 12:00	03/16/21 13:35	1

### **Client Sample ID: FS02**

### Date Collected: 03/12/21 11:15

Date Received: 03/12/21 14:20

### Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/15/21 09:00	03/15/21 16:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/15/21 09:00	03/15/21 16:12	1
m,p-Xylenes	<0.00400	U	0.00400		mg/kg		03/15/21 09:00	03/15/21 16:12	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/15/21 09:00	03/15/21 16:12	1
Toluene	<0.00200	U	0.00200		mg/kg		03/15/21 09:00	03/15/21 16:12	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/15/21 09:00	03/15/21 16:12	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/15/21 09:00	03/15/21 16:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	100		70 - 130				03/15/21 09:00	03/15/21 16:12	1
4-Bromofluorobenzene	119		70 - 130				03/15/21 09:00	03/15/21 16:12	1

Method: CHLORIDE E300 - Ger	eral Subc	ontract Meth	nod						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	432		5.03		mg/kg		03/15/21 14:45	03/15/21 22:30	1
Method: TPH 8015_NM_MOD -	General S	ubcontract I	<b>Nethod</b>						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.8	U	49.8		mg/kg		03/16/21 12:00	03/16/21 13:56	1
Gasoline Range Hydrocarbons (GRO)	<49.8	U	49.8		mg/kg		03/16/21 12:00	03/16/21 13:56	1
Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO)	<49.8 <49.8		49.8 49.8		mg/kg mg/kg		03/16/21 12:00 03/16/21 12:00	03/16/21 13:56 03/16/21 13:56	1 1

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Dil Fac

Dil Fac

1

1

1

1

Job ID: 890-335-1 SDG: TE012921018

15:51

15:51

### Lab Sample ID: 890-335-4 Matrix: Solid

Lab Sample ID: 890-335-5

Matrix: Solid

Client: WSP USA Inc. Project/Site: Golden Child CTB

### **Client Sample ID: FS02** Date Collected: 03/12/21 11:15 Date Received: 03/12/21 14:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 135	03/16/21 12:00	03/16/21 13:56	1
o-Terphenyl	80		70 - 135	03/16/21 12:00	03/16/21 13:56	1

### **Client Sample ID: FS03**

Date Collected: 03/12/21 10:50 Date Received: 03/12/21 14:20

### Lab Sample ID: 890-335-6 Matrix: Solid

Lab Sample ID: 890-335-5

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/15/21 09:00	03/15/21 16:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/15/21 09:00	03/15/21 16:32	1
m,p-Xylenes	< 0.00400	U	0.00400		mg/kg		03/15/21 09:00	03/15/21 16:32	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/15/21 09:00	03/15/21 16:32	1
Toluene	<0.00200	U	0.00200		mg/kg		03/15/21 09:00	03/15/21 16:32	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/15/21 09:00	03/15/21 16:32	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/15/21 09:00	03/15/21 16:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	102		70 - 130				03/15/21 09:00	03/15/21 16:32	1
4-Bromofluorobenzene	113		70 - 130				03/15/21 09:00	03/15/21 16:32	1

### Method: CHLORIDE E300 - General Subcontract Method

Method: BTEX 8021 - General Subcontract Method

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.2	5.02	mg/kg		03/16/21 10:45	03/16/21 11:07	1

### Method: TPH 8015\_NM\_MOD - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/16/21 12:00	03/16/21 14:17	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/16/21 12:00	03/16/21 14:17	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/16/21 12:00	03/16/21 14:17	1
Total TPH	<50.0	U	50.0		mg/kg		03/16/21 12:00	03/16/21 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 135	03/16/21 12:00	03/16/21 14:17	1
o-Terphenyl	102		70 - 135	03/16/21 12:00	03/16/21 14:17	1

### **Client Sample ID: FS04** Date Collected: 03/12/21 10:55 Date Received: 03/12/21 14:20

### Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/kg		03/15/21 09:00	03/15/21 16:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/kg		03/15/21 09:00	03/15/21 16:53	1
m,p-Xylenes	<0.00397	U	0.00397		mg/kg		03/15/21 09:00	03/15/21 16:53	1
o-Xylene	<0.00198	U	0.00198		mg/kg		03/15/21 09:00	03/15/21 16:53	1
Toluene	<0.00198	U	0.00198		mg/kg		03/15/21 09:00	03/15/21 16:53	1
Total BTEX	<0.00198	U	0.00198		mg/kg		03/15/21 09:00	03/15/21 16:53	1
Total Xylenes	<0.00198	U	0.00198		mg/kg		03/15/21 09:00	03/15/21 16:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	99		70 - 130				03/15/21 09:00	03/15/21 16:53	1

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Lab Sample ID: 890-335-7

Matrix: Solid

Job ID: 890-335-1

Matrix: Solid

SDG: TE012921018

Client: WSP USA Inc.

### **Client Sample Results**

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Job ID: 890-335-1 SDG: TE012921018

### Lab Sample ID: 890-335-7 Matrix: Solid

Date Collected: 03/12/21 10:55 Date Received: 03/12/21 14:20

Project/Site: Golden Child CTB

**Client Sample ID: FS04** 

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	118		70 - 130				03/15/21 09:00	03/15/21 16:53	
Method: CHLORIDE E300 - Ge	neral Subc	ontract Me	thod						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.1		4.99		mg/kg		03/16/21 10:45	03/16/21 11:23	1
Method: TPH 8015_NM_MOD -	- General Si	ubcontract	Method						
Analyte – –		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/16/21 12:00	03/16/21 14:38	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/16/21 12:00	03/16/21 14:38	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/16/21 12:00	03/16/21 14:38	1
Total TPH	<49.9	U	49.9		mg/kg		03/16/21 12:00	03/16/21 14:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 135				03/16/21 12:00	03/16/21 14:38	1
o-Terphenyl	75		70 - 135				03/16/21 12:00	03/16/21 14:38	1
Client Sample ID: FS05 pate Collected: 03/12/21 11:00 pate Received: 03/12/21 14:20							Lab Sam	ple ID: 890- Matrix	-335-8 :: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/kg		03/15/21 09:00	03/15/21 17:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/kg		03/15/21 09:00	03/15/21 17:13	1
m,p-Xylenes	<0.00396	U	0.00396		mg/kg		03/15/21 09:00	03/15/21 17:13	1
o-Xylene	<0.00198	U	0.00198		mg/kg		03/15/21 09:00	03/15/21 17:13	1
Toluene	<0.00198	U	0.00198		mg/kg		03/15/21 09:00	03/15/21 17:13	1
Total BTEX	<0.00198	U	0.00198		mg/kg		03/15/21 09:00	03/15/21 17:13	1
Total Xylenes	<0.00198	U	0.00198		mg/kg		03/15/21 09:00	03/15/21 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	100		70 - 130				03/15/21 09:00	03/15/21 17:13	1
4-Bromofluorobenzene	106		70 - 130				03/15/21 09:00	03/15/21 17:13	1

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Chloride	31.9	5.02	mg/kg	03/18/21 10:30	03/18/21 10:57	1
	General Subcontract	Method				

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/16/21 12:00	03/16/21 15:00	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/16/21 12:00	03/16/21 15:00	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/16/21 12:00	03/16/21 15:00	1
Total TPH	<49.9	U	49.9		mg/kg		03/16/21 12:00	03/16/21 15:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 135				03/16/21 12:00	03/16/21 15:00	1
o-Terphenyl	86		70 - 135				03/16/21 12:00	03/16/21 15:00	1

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Client: WSP USA Inc. Project/Site: Golden Child CTB

### Method: BTEX 8021 - General Subcontract Method Matrix: SOIL

			Percent Surrogate Recovery (Acceptance Limits)		
		BFB			
Lab Sample ID	Client Sample ID	(70-130)			ŝ
691748-001 S	Matrix Spike	119			i
691748-001 SD	Matrix Spike Duplicate	111		6	1
7723410-1-BKS	Lab Control Sample	102			
7723410-1-BLK	Method Blank	102			
7723410-1-BSD	Lab Control Sample Dup	104			
Surrogate Legend				8	
BFB = 4-Bromofluoro	obenzene				

Method: BTEX 8021 - General Subcontract Method Matrix: Solid

_				
			Percent Surrogate Recovery (Acce	ptance Limits)
		BFB	DFBZ	
Lab Sample ID	Client Sample ID	(70-130)	70-130)	
890-335-1	SW01	114	101	12
890-335-2	SW02	111	103	
890-335-3	SW03	117	105	
890-335-4	FS01	116	105	
890-335-5	FS02	119	100	
890-335-6	FS03	113	102	
890-335-7	FS04	118	99	
890-335-8	FS05	106	100	

Surrogate Legend

BFB = 4-Bromofluorobenzene

DFBZ = 1,4-Difluorobenzene

### Method: TPH 8015\_NM\_MOD - General Subcontract Method Matrix: Solid

### Prep Type: Total/NA

			Percent	Surrogate Recovery (Acceptance Limits)
		1CO	ОТРН	
Lab Sample ID	Client Sample ID	(70-135)	(70-135)	
890-335-1	SW01	97	96	
890-335-2	SW02	90	88	
890-335-3	SW03	92	91	
890-335-4	FS01	89	87	
890-335-5	FS02	83	80	
890-335-6	FS03	108	102	
890-335-7	FS04	81	75	
890-335-8	FS05	86	86	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Job ID: 890-335-1 SDG: TE012921018

Prep Type: Total/NA

Prep Type: Total/NA

Client: WSP USA Inc. Project/Site: Golden Child CTB

### Method: BTEX 8021 - General Subcontract Method

Lab Sample ID: 7723410-1-BL Matrix: SOIL Analysis Batch: 3153756	.K							le ID: Methoc Prep Type: To p Batch: 3153	otal/NA
		BLANK				_	- ·		
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Benzene	<.002	U	.002		mg/kg		03/15/21 09:00	03/15/21 14:21	1
Ethylbenzene	<.002	U	.002		mg/kg		03/15/21 09:00	03/15/21 14:21	1
m,p-Xylenes	<.004	U	.004		mg/kg		03/15/21 09:00	03/15/21 14:21	1
o-Xylene	<.002	U	.002		mg/kg		03/15/21 09:00	03/15/21 14:21	1
Toluene	<.002	U	.002		mg/kg		03/15/21 09:00	03/15/21 14:21	1
	BLANK	BLANK							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		70 - 130				03/15/21 09:00	03/15/21 14:21	1

### Lab Sample ID: 7723410-1-BKS Matrix: SOIL Analysis Batch: 3153756

Analysis Batch: 3153756						P	rep Batch: 31	53756_P
-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	.1	0.105		mg/kg		105	70 - 130	
Ethylbenzene	.1	0.109		mg/kg		109	71 - 129	
m,p-Xylenes	.2	0.223		mg/kg		112	70 - 135	
o-Xylene	.1	0.114		mg/kg		114	71 - 133	
Toluene	.1	0.110		mg/kg		110	70 - 130	
1.00								

	LCS LCS	
Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene	102	70 - 130

### Lab Sample ID: 7723410-1-BSD Matrix: SOIL Analysis Batch: 3153756

Analysis Batch: 3153756						P	rep Batch	-	
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	.1	0.111		mg/kg		111	70 - 130	6	35
Ethylbenzene	.1	0.113		mg/kg		113	71 - 129	4	35
m,p-Xylenes	.2	0.229		mg/kg		115	70 - 135	3	35
o-Xylene	.1	0.116		mg/kg		116	71 - 133	2	35
Toluene	.1	0.113		mg/kg		113	70 - 130	3	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	104		70 - 130

### Lab Sample ID: 691748-001 S Matrix: SOIL Analysis Batch: 3153756

Analysis Batch: 3153756								P	rep Batch:	3153756_P
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<.002		.1	0.0470	Х	mg/kg		47	70 - 130	
Ethylbenzene	<.002		.1	0.0883		mg/kg		88	71 - 129	
m,p-Xylenes	<.00401		.2	0.183		mg/kg		92	70 - 135	
o-Xylene	<.002		.1	0.0929		mg/kg		93	71 - 133	
Toluene	<.002		.1	0.0860		mg/kg		86	70 - 130	

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**Client Sample ID: Lab Control Sample** 

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA

Prep Type: Total/NA

**Client Sample ID: Matrix Spike** 

**Prep Type: Total/NA** 

Limits

70 - 130

Client: WSP USA Inc. Project/Site: Golden Child CTB

Lab Sample ID: 691748-001 S

Analysis Batch: 3153756

Matrix: SOIL

4-Bromofluorobenzene

Surrogate

### Method: BTEX 8021 - General Subcontract Method (Continued)

MS MS %Recovery Qualifier

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Lab Sample ID: 691748-00 Matrix: SOIL Analysis Batch: 3153756	1 SD					Clien	t Sam		atrix Spil Prep Ty ep Batch	pe: Tot	tal/NA
	Sample	Sample	Spike	MSE	) MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Resul	t Qualifie	ər Unit	D	%Rec	Limits	RPD	Limit
Benzene	<.002		.1	0.093	I F	mg/kg		93	70 - 130	66	35
Ethylbenzene	<.002		.1	0.0943	3	mg/kg		94	71 - 129	7	35
m,p-Xylenes	<.00401		.2	0.189	9	mg/kg		95	70 - 135	3	35
o-Xylene	<.002		.1	0.099	5	mg/kg		100	71 - 133	7	35
Toluene	<.002		.1	0.0956	6	mg/kg		96	70 - 130	11	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene	111		70 - 130	•							
Matrix: SOIL Analysis Batch: 3153746	BL	ANK BLANK						Pr	Prep Ty ep Batch		
Analyte	Re	sult Qualifier		RL	MDL Ur	nit	DI	Prepared	Analyz	zed	Dil Fac
Chloride		7.66		5	mg	g/kg	03/	15/21 14:4	5 03/15/21	14:47	1
Lab Sample ID: 7723355-1	-BKS					Cli	ent Sa	mple ID	: Lab Cor	trol Sa	ample
Matrix: SOIL								•	Prep Ty		
Analysis Batch: 3153746								Pr	ep Batch		
			Spike	LCS	LCS				%Rec.		_
Analyte			Added	Resul	t Qualifie	er Unit	D	%Rec	Limits		
Chloride			250	23	7	mg/kg		95	80 - 120		
Lab Sample ID: 7723355-1	-BSD					Client S	ample	e ID: Lab	Control		
Matrix: SOIL									Prep Ty		
Analysis Batch: 3153746								Pr	ep Batch	: 31537	746 P
											_
			Spike	-	) LCSD t Qualifie			%Rec	%Rec.	RPD	RPD

Analyte			Audeu	Result	Quanner	Onit		/01100	Linita		Lunu
Chloride			250	236		mg/kg		94	80 - 120	0	20
Lab Sample ID: 691748-002 S Matrix: SOIL Analysis Batch: 3153746							CI		mple ID:   Prep Ty rep Batch	pe: Tot	al/NA
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	236		251	474		mg/kg		95	80 - 120		

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**Prep Batch:** 

3/18/2021

Client: WSP USA Inc. Project/Site: Golden Child CTB

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Job ID: 890-335-1 SDG: TE012921018

### Method: CHLORIDE E300 - General Subcontract Method (Continued)

Lab Sample ID: 691748-002	SD					Client S	Samp	ole ID: M	atrix Spil	ke Duj	olicate
Matrix: SOIL									· Prep Ty		
Analysis Batch: 3153746								Pr	ep Batch		
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	236		251	474		mg/kg		95	80 - 120	0	20
Lab Sample ID: 7723415-1- Matrix: SOIL	BLK						Clie	ent Sam	ple ID: M Prep Ty		
								D.,			
Analysis Batch: 3153836	BL	ANK BLANK						Pr	ep Batch	: 3153	030_P
Analyte	Re	sult Qualifier		RL	MDL Unit	D	P	repared	Analyz	zed	Dil Fac
Chloride		<5 U		5	mg/k	g	03/1	6/21 10:45	5 03/16/21	10:50	1
Lab Sample ID: 7723415-1-	BKS					Clier	it Sa	mple ID:	Lab Cor		
Matrix: SOIL								_	Prep Ty		
Analysis Batch: 3153836			0	1.00	1.00			Pr	ep Batch	: 3153	836_P
A well de			Spike	-	LCS	11	_	0/ <b>D</b>	%Rec.		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Chloride			250	243		mg/kg		97	80 - 120		
Lab Sample ID: 7723415-1- Matrix: SOIL	BSD				C	Client Sa	mple	ID: Lab	Control S Prep Ty		
Analysis Batch: 3153836								Pr	ep Batch	-	
· · · · · · · · · · · · · · · · · · ·			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	244		mg/kg		98	80 - 120	0	20
Lab Sample ID: 691748-006 Matrix: SOIL	S						C		nple ID: I Prep Ty	pe: To	tal/NA
Analysis Batch: 3153836	<b>.</b> .	•	• •					Pr	ep Batch	: 3153	836_P
		Sample	Spike	-	MS		_	a/ <b>-</b>	%Rec.		
Analyte Chloride		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Chioride	45.2		251	310		mg/kg		105	80 - 120		
Lab Sample ID: 691748-006	SD					Client S	Samp	le ID: M	atrix Spil		
Matrix: SOIL								<b>D</b>	Prep Ty		
Analysis Batch: 3153836	Comula	Commis	Calka	Med	MSD			Pr	ep Batch	: 3153	_
Anchác	-	Sample	Spike			11		0/ Dee	%Rec.	000	RPD
Analyte Chloride	45.2	Qualifier	Added 251	305	Qualifier	Unit mg/kg	D	<b>%Rec</b>	Limits 80 - 120	2	Limit 20
	40.2		201	000		ilig/ilig		104	00-120	2	20
Lab Sample ID: 7723593-1-	BLK						Clie	ent Sam	ple ID: M		
Matrix: SOIL								_	Prep Ty	-	
Analysis Batch: 3154078	ы							Pr	ep Batch	: 3154	078_P
Anchita		ANK BLANK		ы				ue ne ne d	A malum		
Analyte Chloride	K6	sult Qualifier		RL 5	MDL Unit	<u>D</u>		repared	Analyz 03/18/21		Dil Fac
		<b>N</b> 0		5	mg/K	Э	03/1	0/21 10.30	00/10/21	10.42	1
Lab Sample ID: 7723593-1-	BKS					Clier	it Sa	mple ID:	Lab Cor		
Matrix: SOIL									Prep Ty	pe: To	tal/NA
Analysis Batch: 3154078								Pr	ep Batch	: 3154	078_P
			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250	261		mg/kg	_	104	80 - 120		

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Client: WSP USA Inc. Project/Site: Golden Child CTB Page 67 of 99

Job ID: 890-335-1 SDG: TE012921018

### Method: CHLORIDE E300 - General Subcontract Method

Lab Sample ID: 7723593-1-BSI Matrix: SOIL	C					C	lient Sa	mple	ID: Lab	Control Prep Ty		
Analysis Batch: 3154078									Pr	ep Batch		
······, ····				Spike	LCSD	LCSD				%Rec.		RP
Analyte				Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Chloride				250	262		mg/kg		105	80 - 120		2
				200	202		iiig/itg		100	00-120	0	-
Lab Sample ID: 691748-008 S Matrix: SOIL								CI	lient Sa	mple ID: Prep Ty		
Analysis Batch: 3154078									Dr	ep Batch	-	
Analysis Datch. 5154070	Sample	Samo	10	Spike	Ме	MS			FI	%Rec.	. 51540	
Analyta	•	•		•	-	-	11	<b>_</b>	0/ Dee			
Analyte	Result	Quain		Added		Qualifier	Unit	D	%Rec	Limits		
Chloride	31.9			251	290		mg/kg		103	80 - 120		
Lab Sample ID: 691748-008 SD Matrix: SOIL	)						Client S	Samp	le ID: N	latrix Spi Prep Ty		
									D.			
Analysis Batch: 3154078	<u> </u>	•		<b>•</b> "					PI	ep Batch	1: 31540	
	Sample	•		Spike		MSD				%Rec.		RP
Analyte	Result	Qualit	fier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Chloride	31.9			251	288		mg/kg		102	80 - 120	1	2
lethod: TPH 8015_NM_M	DD - G	iener	al Su	bcontra	act Meth	od						
Lab Sample ID: 7723503-1-BLł	<b>‹</b>							Clie	ent Sam	ple ID: M	lethod I	Blar
Matrix: SOIL										Prep Ty		
									Dr	ep Batch		
Analysis Batch: 31539/1									F1	ep Daten	. 51555	· · ·
Analysis Batch: 3153941	BL											
-		ANK E					-			- -		
Analyte		esult C	Qualifier			MDL Unit	<u>[</u>		repared	Analy		Dil Fa
Analyte Diesel Range Organics (DRO)		esult C	Qualifier		50	mg/k		03/1	6/21 12:0	0 03/16/21	10:47	Dil Fa
Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO)		esult ( <50 ( <50 (	Qualifier J					03/1	6/21 12:0		10:47	Dil Fa
Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO)		esult C	Qualifier J		50	mg/k		03/1 03/1	6/21 12:0 6/21 12:0	0 03/16/21	10:47 10:47	Dil Fa
Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO) Lab Sample ID: 7723503-1-BKS	Re	esult ( <50 ( <50 (	Qualifier J		50 50	mg/kg mg/kg	9 9 9	03/1 03/1 03/1	6/21 12:0 6/21 12:0 6/21 12:0	0 03/16/21 0 03/16/21 0 03/16/21 • Col	10:47 10:47 10:47 10:47	ampl
Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO) Lab Sample ID: 7723503-1-BKS Matrix: SOIL	Re	esult ( <50 ( <50 (	Qualifier J		50 50	mg/kg mg/kg	9 9 9	03/1 03/1 03/1	6/21 12:0 6/21 12:0 6/21 12:0 6/21 12:0	0 03/16/21 0 03/16/21 0 03/16/21 0 03/16/21 : Lab Coi Prep Ty	10:47 10:47 10:47 <b>ntrol Sa</b> 7 <b>pe: Tot</b>	ampl tal/N
Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO) Lab Sample ID: 7723503-1-BKS Matrix: SOIL	Re	esult ( <50 ( <50 (	Qualifier J		50 50 50	mg/kg mg/kg mg/kg	9 9 9	03/1 03/1 03/1	6/21 12:0 6/21 12:0 6/21 12:0 6/21 12:0	0 03/16/21 0 03/16/21 0 03/16/21 0 03/16/21 : Lab Cou Prep Ty rep Batch	10:47 10:47 10:47 <b>ntrol Sa</b> 7 <b>pe: Tot</b>	ampl tal/N
Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO) Lab Sample ID: 7723503-1-BKS Matrix: SOIL	Re	esult ( <50 ( <50 (	Qualifier J	 Spike	50 50 50	mg/kg mg/kg	9 9 9	03/1 03/1 03/1	6/21 12:0 6/21 12:0 6/21 12:0 6/21 12:0	0 03/16/21 0 03/16/21 0 03/16/21 0 03/16/21 : Lab Coi Prep Ty	10:47 10:47 10:47 <b>ntrol Sa</b> 7 <b>pe: Tot</b>	ampl tal/N
Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO) Lab Sample ID: 7723503-1-BKS Matrix: SOIL Analysis Batch: 3153941	Re	esult ( <50 ( <50 (	Qualifier J	Spike Added	50 50 50 LCS	mg/kg mg/kg mg/kg	9 9 9	03/1 03/1 03/1	6/21 12:0 6/21 12:0 6/21 12:0 6/21 12:0	0 03/16/21 0 03/16/21 0 03/16/21 0 03/16/21 : Lab Cou Prep Ty rep Batch	10:47 10:47 10:47 <b>ntrol Sa</b> 7 <b>pe: Tot</b>	ampl tal/N
Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO) Lab Sample ID: 7723503-1-BKS Matrix: SOIL Analysis Batch: 3153941 Analyte	Re	esult ( <50 ( <50 (	Qualifier J	•	50 50 50 LCS	mg/kg mg/kg mg/kg	Clier	03/1 03/1 03/1 03/1	6/21 12:0 6/21 12:0 6/21 12:0 6/21 12:0 mple ID Pr	0 03/16/21 0 03/16/21 0 03/16/21 • Lab Cou Prep Ty rep Batch %Rec.	10:47 10:47 10:47 <b>ntrol Sa</b> 7 <b>pe: Tot</b>	ampl tal/N
Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO) Lab Sample ID: 7723503-1-BKS Matrix: SOIL Analysis Batch: 3153941 Analyte Diesel Range Organics (DRO)	Re	esult ( <50 ( <50 (	Qualifier J	Added	50 50 50 LCS Result	mg/kg mg/kg mg/kg	Clier Unit mg/kg	03/1 03/1 03/1 03/1	6/21 12:0 6/21 12:0 6/21 12:0 mple ID Pr %Rec	0 03/16/21 0 03/16/21 0 03/16/21 : Lab Cou Prep Ty rep Batch %Rec. Limits	10:47 10:47 10:47 <b>ntrol Sa</b> 7 <b>pe: Tot</b>	ampl tal/N
Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO) Lab Sample ID: 7723503-1-BKS Matrix: SOIL Analysis Batch: 3153941 Diesel Range Organics (DRO) Gasoline Range Hydrocarbons	Re	esult ( <50 ( <50 (	Qualifier J	<b>Added</b> 1000	50 50 50 LCS Result 921	mg/kg mg/kg mg/kg	Clier	03/1 03/1 03/1 03/1	6/21 12:0 6/21 12:0 6/21 12:0 mple ID Pr <u>%Rec</u> 92	0 03/16/21 0 03/16/21 0 03/16/21 : Lab Cou Prep Ty rep Batch %Rec. Limits 70 - 135	10:47 10:47 10:47 <b>ntrol Sa</b> 7 <b>pe: Tot</b>	ampl tal/N
Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO) Lab Sample ID: 7723503-1-BKS Matrix: SOIL Analysis Batch: 3153941 Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Lab Sample ID: 7723503-1-BSI	Re	esult ( <50 ( <50 (	Qualifier J	<b>Added</b> 1000	50 50 50 LCS Result 921	mg/kg mg/kg Mg/kg LCS Qualifier	Clier Unit mg/kg mg/kg	03/1 03/1 03/1 nt Sai	6/21 12:0 6/21 12:0 6/21 12:0 mple ID Pr <u>%Rec</u> 92 91	0 03/16/21 0 03/16/21 0 03/16/21 : Lab Con Prep Ty rep Batch %Rec. Limits 70 - 135 70 - 135	10:47 10:47 10:47 <b>htrol Sa</b> <b>pe: Tot</b> <b>: 31539</b>	amp tal/N 941_ e Du
Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO) Lab Sample ID: 7723503-1-BKS Matrix: SOIL Analysis Batch: 3153941 Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Lab Sample ID: 7723503-1-BSI Matrix: SOIL	Re	esult ( <50 ( <50 (	Qualifier J	<b>Added</b> 1000	50 50 50 LCS Result 921	mg/kg mg/kg Mg/kg LCS Qualifier	Clier Unit mg/kg mg/kg	03/1 03/1 03/1 nt Sai	6/21 12:0 6/21 12:0 6/21 12:0 mple ID Pr <u>%Rec</u> 92 91 ID: Lab	0 03/16/21 0 03/16/21 0 03/16/21 : Lab Con Prep Ty rep Batch %Rec. Limits 70 - 135 70 - 135 70 - 135	10:47 10:47 10:47 <b>introl Sa</b> <b>pe: Tot</b> <b>: 31539</b> <b>Sample</b> <b>ype: Tot</b>	ampl tal/N 941_ e Du tal/N
Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO) Lab Sample ID: 7723503-1-BKS Matrix: SOIL Analysis Batch: 3153941 Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Lab Sample ID: 7723503-1-BSI Matrix: SOIL	Re	esult ( <50 ( <50 (	Qualifier J	Added 1000 1000	50 50 50 LCS Result 921 909	mg/kg mg/kg Mg/kg Qualifier	Clier Unit mg/kg mg/kg	03/1 03/1 03/1 nt Sai	6/21 12:0 6/21 12:0 6/21 12:0 mple ID Pr <u>%Rec</u> 92 91 ID: Lab	0 03/16/21 0 03/16/21 0 03/16/21 : Lab Cou Prep Ty rep Batch %Rec. Limits 70 - 135 70 - 135 70 - 135 9 Control Prep Ty rep Batch	10:47 10:47 10:47 <b>introl Sa</b> <b>pe: Tot</b> <b>: 31539</b> <b>Sample</b> <b>ype: Tot</b>	ampl tal/N 941_ e Du tal/N 941_
Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO) Lab Sample ID: 7723503-1-BKS Matrix: SOIL Analysis Batch: 3153941 Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Lab Sample ID: 7723503-1-BSI Matrix: SOIL Analysis Batch: 3153941	Re	esult ( <50 ( <50 (	Qualifier J	Added 1000 1000 Spike	50 50 50 LCS Result 921 909 LCSD	LCS Qualifier	Unit mg/kg mg/kg	03/1 03/1 03/1 <b>nt Sai</b>	6/21 12:0 6/21 12:0 6/21 12:0 mple ID Pr <u>%Rec</u> 92 91 ID: Lab	0 03/16/21 0 03/16/21 0 03/16/21 : Lab Cou Prep Ty rep Batch %Rec. Limits 70 - 135 70 - 135 70 - 135	10:47 10:47 10:47 <b>htrol Sa</b> <b>ype: Tot</b> <b>: 31539</b> <b>Sample</b> <b>pe: Tot</b> <b>: 31539</b>	ampl tal/N 941_ e Du tal/N 941_ RP
Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO) Lab Sample ID: 7723503-1-BKS Matrix: SOIL Analysis Batch: 3153941 Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Lab Sample ID: 7723503-1-BSI Matrix: SOIL Analysis Batch: 3153941 Analyte	Re	esult ( <50 ( <50 (	Qualifier J	Added 1000 1000 Spike Added	50 50 50 LCS Result 921 909 LCSD Result	mg/kg mg/kg Mg/kg Qualifier	Unit Unit mg/kg mg/kg	03/1 03/1 03/1 nt Sai	6/21 12:0 6/21 12:0 6/21 12:0 mple ID Pr <u>%Rec</u> 91 ID: Lab Pr <u>%Rec</u>	0 03/16/21 0 03/16/21 0 03/16/21 : Lab Cou Prep Ty rep Batch %Rec. Limits 70 - 135 70 - 135 70 - 135 70 - 135 9 Control Prep Ty rep Batch %Rec. Limits	10:47 10:47 10:47 <b>ntrol Sa</b> (pe: Tot 31539 Sample (pe: Tot 31539 RPD	e Du tal/N 941_ 941_ RP Lim
Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO) Lab Sample ID: 7723503-1-BKS Matrix: SOIL Analysis Batch: 3153941 Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Lab Sample ID: 7723503-1-BSI Matrix: SOIL Analysis Batch: 3153941 Analyte	Re	esult ( <50 ( <50 (	Qualifier J	Added 1000 1000 Spike	50 50 50 LCS Result 921 909 LCSD	LCS Qualifier	Unit mg/kg mg/kg	03/1 03/1 03/1 <b>nt Sai</b>	6/21 12:0 6/21 12:0 6/21 12:0 mple ID Pr <u>%Rec</u> 92 91 ID: Lab	0 03/16/21 0 03/16/21 0 03/16/21 : Lab Cou Prep Ty rep Batch %Rec. Limits 70 - 135 70 - 135 70 - 135	10:47 10:47 10:47 <b>htrol Sa</b> <b>ype: Tot</b> <b>: 31539</b> <b>Sample</b> <b>pe: Tot</b> <b>: 31539</b>	e Du tal/N 941_ 941_ RP Lim
Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO) Lab Sample ID: 7723503-1-BKS Matrix: SOIL Analysis Batch: 3153941 Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Lab Sample ID: 7723503-1-BSI Matrix: SOIL Analysis Batch: 3153941 Analysis Batch: 3153941 Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons	Re	esult ( <50 ( <50 (	Qualifier J	Added 1000 1000 Spike Added	50 50 50 LCS Result 921 909 LCSD Result	LCS Qualifier	Unit Unit mg/kg mg/kg	03/1 03/1 03/1 <b>nt Sai</b>	6/21 12:0 6/21 12:0 6/21 12:0 mple ID Pr <u>%Rec</u> 91 ID: Lab Pr <u>%Rec</u>	0 03/16/21 0 03/16/21 0 03/16/21 : Lab Cou Prep Ty rep Batch %Rec. Limits 70 - 135 70 - 135 70 - 135 70 - 135 9 Control Prep Ty rep Batch %Rec. Limits	10:47 10:47 10:47 <b>ntrol Sa</b> (pe: Tot 31539 Sample (pe: Tot 31539 RPD	e Du tal/N 941_ e Du tal/N 941_ RF Lim
Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO) Lab Sample ID: 7723503-1-BKS Matrix: SOIL Analysis Batch: 3153941 Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Lab Sample ID: 7723503-1-BSI Matrix: SOIL Analysis Batch: 3153941 Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO)	Re	esult ( <50 ( <50 (	Qualifier J	Added 1000 1000 Spike Added 1000	50 50 50 LCS Result 909 LCSD Result 921	LCS Qualifier	Clier Unit mg/kg mg/kg Client Sa Unit mg/kg	D	6/21 12:0 6/21 12:0 6/21 12:0 mple ID Pr <u>%Rec</u> 91 ID: Lab Pr <u>%Rec</u> 92 91	0 03/16/21 0 03/16/21 1 Lab Cou Prep Ty rep Batch %Rec. Limits 70 - 135 70 - 135 70 - 135 Prep Ty rep Batch %Rec. Limits 70 - 135 70 - 135 70 - 135 70 - 135 70 - 135 70 - 135 70 - 135	10:47 10:47 10:47 <b>htrol Sa</b> (pe: Tot 31539 <b>Sample</b> (pe: Tot 31539 <b>Sample</b> (pe: Tot 31539 <b>RPD</b> 0 0	e Du tal/N 941_ 241_ RF Lin
Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO) Lab Sample ID: 7723503-1-BKS Matrix: SOIL Analysis Batch: 3153941 Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Lab Sample ID: 7723503-1-BSI Matrix: SOIL Analysis Batch: 3153941 Analysis Batch: 3153941 Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Lab Sample ID: 691748-001 S	Re	esult ( <50 ( <50 (	Qualifier J	Added 1000 1000 Spike Added 1000	50 50 50 LCS Result 909 LCSD Result 921	LCS Qualifier	Clier Unit mg/kg mg/kg Client Sa Unit mg/kg	D	6/21 12:0 6/21 12:0 6/21 12:0 mple ID Pr <u>%Rec</u> 91 ID: Lab Pr <u>%Rec</u> 92 91	0 03/16/21 0 03/16/21 1 Lab Cou Prep Ty rep Batch %Rec. Limits 70 - 135 70 - 135 70 - 135 0 Control Prep Ty rep Batch %Rec. Limits 70 - 135 70 - 135	10:47 10:47 10:47 <b>htrol Sa</b> (pe: Tot 31539 (pe: Tot 31539) (pe: To	e Du tal/N 941_ e Du tal/N 941_ RP Lim 2 2 2 2 2 3 5 5 0 1 2 2 2 2 3 5 0 1 2 2 3 5 1 1 2 2 3 5 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1
Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO) Lab Sample ID: 7723503-1-BKS Matrix: SOIL Analysis Batch: 3153941 Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Lab Sample ID: 7723503-1-BSI Matrix: SOIL Analysis Batch: 3153941 Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Lab Sample ID: 691748-001 S Matrix: SOIL	Re	esult ( <50 ( <50 (	Qualifier J	Added 1000 1000 Spike Added 1000	50 50 50 LCS Result 909 LCSD Result 921	LCS Qualifier	Clier Unit mg/kg mg/kg Client Sa Unit mg/kg	D	6/21 12:0 6/21 12:0 6/21 12:0 mple ID Pr <u>%Rec</u> 92 91 ID: Lab Pr <u>%Rec</u> 92 91	0 03/16/21 0 03/16/21 0 03/16/21 : Lab Cou Prep Ty rep Batch %Rec. Limits 70 - 135 70 - 135 70 - 135 0 Control Prep Ty rep Batch %Rec. Limits 70 - 135 70 - 135 70 - 135 70 - 135 70 - 135 To - 135 70 - 135	10:47 10:47 10:47 <b>htrol Sa</b> (pe: Tot : 31539 (pe: Tot : 31539 (pe: Tot 0 0 0 Matrix 5	e Du tal/N 941_ e Du tal/N P41_ RP Lim 2 2 Spik tal/N
Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO) Lab Sample ID: 7723503-1-BKS Matrix: SOIL Analysis Batch: 3153941 Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Lab Sample ID: 7723503-1-BSI Matrix: SOIL Analysis Batch: 3153941 Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Lab Sample ID: 691748-001 S Matrix: SOIL	Re	esult ( <50 U <50 U <50 U	Qualifier J J J	Added 1000 1000 <b>Spike</b> Added 1000 1000	50 50 50 <b>LCS</b> <b>Result</b> 921 909 <b>LCSD</b> <b>Result</b> 921 921 912	mg/kg mg/kg mg/kg Qualifier	Clier Unit mg/kg mg/kg Client Sa Unit mg/kg	D	6/21 12:0 6/21 12:0 6/21 12:0 mple ID Pr <u>%Rec</u> 92 91 ID: Lab Pr <u>%Rec</u> 92 91	0 03/16/21 0 03/16/21 1 0 03/16/21 2 Lab Cou Prep Ty 2 P Batch %Rec. Limits 70 - 135 70 - 135 70 - 135 9 Control Prep Ty 2 P Batch %Rec. Limits 70 - 135 70 - 135 70 - 135 70 - 135 70 - 135 9 Control Prep Ty 2 P Batch %Rec. Limits 70 - 135 70 - 135 9 Control Prep Ty 2 P Batch %Rec. Limits 70 - 135 70 - 135 70 - 135 70 - 135 70 - 135 9 Control Prep Ty 2 P Batch %Rec. Limits 70 - 135 70 - 135	10:47 10:47 10:47 <b>htrol Sa</b> (pe: Tot : 31539 (pe: Tot : 31539 (pe: Tot 0 0 0 Matrix 5	e Du tal/N. 941_ e Du tal/N. 941_ RP Lim 2 2 Spik tal/N.
Analysis Batch: 3153941 Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Motor Oil Range Hydrocarbons (MRO) Lab Sample ID: 7723503-1-BKS Matrix: SOIL Analysis Batch: 3153941 Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Lab Sample ID: 7723503-1-BSI Matrix: SOIL Analysis Batch: 3153941 Analyte Diesel Range Organics (DRO) Gasoline Range Hydrocarbons (GRO) Lab Sample ID: 691748-001 S Matrix: SOIL Analysis Batch: 3153941 Analysis Batch: 3153941 Analysis Batch: 3153941 Analyte	Re	Samp	Qualifier	Added 1000 1000 Spike Added 1000	50 50 50 LCS Result 921 909 LCSD Result 921 912	LCS Qualifier	Clier Unit mg/kg mg/kg Client Sa Unit mg/kg	D	6/21 12:0 6/21 12:0 6/21 12:0 mple ID Pr <u>%Rec</u> 92 91 ID: Lab Pr <u>%Rec</u> 92 91	0 03/16/21 0 03/16/21 0 03/16/21 : Lab Cou Prep Ty rep Batch %Rec. Limits 70 - 135 70 - 135 70 - 135 0 Control Prep Ty rep Batch %Rec. Limits 70 - 135 70 - 135 70 - 135 70 - 135 70 - 135 To - 135 70 - 135	10:47 10:47 10:47 <b>htrol Sa</b> (pe: Tot : 31539 (pe: Tot : 31539 (pe: Tot 0 0 0 Matrix 5	e Du dal/N 941_1 e Du tal/N 941_1 RP 2 2 2 Spik tal/N

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Client: WSP USA Inc. Project/Site: Golden Child CTB Job ID: 890-335-1 SDG: TE012921018

### Method: TPH 8015\_NM\_MOD - General Subcontract Method (Continued)

Lab Sample ID: 691748-001	S						С	lient Sa	mple ID:	Matrix 3	Spike
Matrix: SOIL									Prep Ty	pe: Tot	al/NA
Analysis Batch: 3153941								Pi	ep Batch	: 31539	941_P
-	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Hydrocarbons _(GRO)	<49.8		997	847		mg/kg		85	70 - 135		
_ Lab Sample ID: 691748-001	SD					Client S	Samp	le ID: N	latrix Spi	ke Dup	licate
Matrix: SOIL									Prep Ty	pe: Tot	al/NA
Analysis Batch: 3153941								Pi	ep Batch	: 31539	941_P
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Diesel Range Organics (DRO)	<49.8		996	842		mg/kg		85	70 - 135	3	20
Gasoline Range Hydrocarbons	<49.8		996	822		mg/kg		83	70 - 135	3	20

(GRO)

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Client: WSP USA Inc. Project/Site: Golden Child CTB

### Subcontract

### Analysis Batch: 3153746

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-335-1	SW01	Total/NA	Solid	CHLORIDE E300	3153746_P
890-335-2	SW02	Total/NA	Solid	CHLORIDE E300	3153746_P
890-335-3	SW03	Total/NA	Solid	CHLORIDE E300	3153746_P
890-335-4	FS01	Total/NA	Solid	CHLORIDE E300	3153746_P
890-335-5	FS02	Total/NA	Solid	CHLORIDE E300	3153746_P
7723355-1-BLK	Method Blank	Total/NA	SOIL	CHLORIDE E300	3153746_P
7723355-1-BKS	Lab Control Sample	Total/NA	SOIL	CHLORIDE E300	3153746_P
7723355-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	CHLORIDE E300	3153746_P
691748-002 S	Matrix Spike	Total/NA	SOIL	CHLORIDE E300	3153746_P
691748-002 SD	Matrix Spike Duplicate	Total/NA	SOIL	CHLORIDE E30(	3153746_P

### Analysis Batch: 3153756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-335-1	SW01	Total/NA	Solid	BTEX 8021	3153756_P
890-335-2	SW02	Total/NA	Solid	BTEX 8021	3153756_P
890-335-3	SW03	Total/NA	Solid	BTEX 8021	3153756_P
890-335-4	FS01	Total/NA	Solid	BTEX 8021	3153756_P
890-335-5	FS02	Total/NA	Solid	BTEX 8021	3153756_P
890-335-6	FS03	Total/NA	Solid	BTEX 8021	3153756_P
890-335-7	FS04	Total/NA	Solid	BTEX 8021	3153756_P
890-335-8	FS05	Total/NA	Solid	BTEX 8021	3153756_P
7723410-1-BLK	Method Blank	Total/NA	SOIL	BTEX 8021	3153756_P
7723410-1-BKS	Lab Control Sample	Total/NA	SOIL	BTEX 8021	3153756_P
7723410-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	BTEX 8021	3153756_P
691748-001 S	Matrix Spike	Total/NA	SOIL	BTEX 8021	3153756_P
691748-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	BTEX 8021	3153756_P

### Analysis Batch: 3153836

Lab Sample ID Client Sample ID		e ID Client Sample ID Prep Type		Method	Prep Batch	
890-335-6	FS03	Total/NA	Solid	CHLORIDE E300	3153836_P	
890-335-7	FS04	Total/NA	Solid	CHLORIDE E300	3153836_P	
7723415-1-BLK	Method Blank	Total/NA	SOIL	CHLORIDE E300	3153836_P	
7723415-1-BKS	Lab Control Sample	Total/NA	SOIL	CHLORIDE E300	3153836_P	
7723415-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	CHLORIDE E300	3153836_P	
691748-006 S	Matrix Spike	Total/NA	SOIL	CHLORIDE E300	3153836_P	
691748-006 SD	Matrix Spike Duplicate	Total/NA	SOIL	CHLORIDE E300	3153836_P	

### Analysis Batch: 3153941

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-335-1	SW01	Total/NA	Solid	TPH	3153941_P
				8015_NM_MOD	
890-335-2	SW02	Total/NA	Solid	TPH	3153941_P
				8015_NM_MOD	
890-335-3	SW03	Total/NA	Solid	TPH	3153941_P
				8015_NM_MOD	
890-335-4	FS01	Total/NA	Solid	TPH	3153941_P
				8015_NM_MOD	
890-335-5	FS02	Total/NA	Solid	TPH	3153941_P
				8015_NM_MOD	
890-335-6	FS03	Total/NA	Solid	TPH	3153941_P
				8015_NM_MOD	
890-335-7	FS04	Total/NA	Solid	TPH	3153941_P
				8015_NM_MOD	

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### Job ID: 890-335-1 SDG: TE012921018

Client: WSP USA Inc. Project/Site: Golden Child CTB

### **Subcontract (Continued)**

### Analysis Batch: 3153941 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-335-8	FS05	Total/NA	Solid	TPH	3153941_P
				8015_NM_MOD	
7723503-1-BLK	Method Blank	Total/NA	SOIL	TPH	3153941_P
				8015_NM_MOD	
7723503-1-BKS	Lab Control Sample	Total/NA	SOIL	TPH	3153941_P
				8015_NM_MOD	
7723503-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	TPH	3153941_P
				8015_NM_MOD	
691748-001 S	Matrix Spike	Total/NA	SOIL	TPH	3153941_P
				8015_NM_MOD	
691748-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	TPH	3153941_P
				8015_NM_MOD	

### Analysis Batch: 3154078

Matrix Spike	Total/NA	SOIL	8015_NM_MOD TPH 8015_NM_MOD	3153941_P	8
Matrix Spike Duplicate	Total/NA	SOIL	TPH 8015_NM_MOD	3153941_P	9
54078					10
Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
FS05	Total/NA	Solid	CHLORIDE E300	3154078_P	11
Method Blank	Total/NA	SOIL	CHLORIDE E30(	3154078 P	
	TOtal/INA	OOL		3134070_F	
Lab Control Sample	Total/NA	SOIL	CHLORIDE E300	3154078_P	12
				_	12
Lab Control Sample	Total/NA	SOIL	CHLORIDE E30(		12 13
	Matrix Spike Duplicate 54078 Client Sample ID FS05	Matrix Spike Duplicate Total/NA 54078 Client Sample ID Prep Type FS05 Total/NA	Matrix Spike Duplicate Total/NA SOIL 54078 Client Sample ID Prep Type Matrix FS05 Total/NA Solid	Matrix Spike     Total/NA     SOIL     TPH       Matrix Spike Duplicate     Total/NA     SOIL     TPH       Matrix Spike Duplicate     Total/NA     SOIL     TPH       54078     Client Sample ID     Prep Type     Matrix     Method       FS05     Total/NA     Solid     CHLORIDE E30(	Matrix Spike       Total/NA       SOIL       TPH       3153941_P         Matrix Spike Duplicate       Total/NA       SOIL       TPH       3153941_P         Matrix Spike Duplicate       Total/NA       SOIL       TPH       3153941_P         54078       Elient Sample ID       Prep Type       Matrix       Method       Prep Batch         FS05       Total/NA       Solid       CHLORIDE E300       3154078_P

### Prep Batch: 3153746\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-335-1	SW01	Total/NA	Solid	E300P	
890-335-2	SW02	Total/NA	Solid	E300P	
890-335-3	SW03	Total/NA	Solid	E300P	
890-335-4	FS01	Total/NA	Solid	E300P	
890-335-5	FS02	Total/NA	Solid	E300P	
7723355-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723355-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723355-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
691748-002 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
691748-002 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

### Prep Batch: 3153756\_P

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-335-1	SW01	Total/NA	Solid	SW5035A	
890-335-2	SW02	Total/NA	Solid	SW5035A	
890-335-3	SW03	Total/NA	Solid	SW5035A	
890-335-4	FS01	Total/NA	Solid	SW5035A	
890-335-5	FS02	Total/NA	Solid	SW5035A	
890-335-6	FS03	Total/NA	Solid	SW5035A	
890-335-7	FS04	Total/NA	Solid	SW5035A	
890-335-8	FS05	Total/NA	Solid	SW5035A	
7723410-1-BLK	Method Blank	Total/NA	SOIL	SW5035A	
7723410-1-BKS	Lab Control Sample	Total/NA	SOIL	SW5035A	
7723410-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	SW5035A	
691748-001 S	Matrix Spike	Total/NA	SOIL	SW5035A	

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Job ID: 890-335-1 SDG: TE012921018

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Client: WSP USA Inc. Project/Site: Golden Child CTB

### **Subcontract (Continued)**

### Prep Batch: 3153756\_P (Continued)

Lab Sample ID 691748-001 SD	Client Sample ID Matrix Spike Duplicate	Prep Type Total/NA	Matrix SOIL	Method SW5035A	Prep Batch
Prep Batch: 31538	36_P				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-335-6	FS03	Total/NA	Solid	E300P	
890-335-7	FS04	Total/NA	Solid	E300P	

7723415-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***
7723415-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***
7723415-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***
691748-006 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***
691748-006 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***

### Prep Batch: 3153941\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-335-1	SW01	Total/NA	Solid	SW8015P	
890-335-2	SW02	Total/NA	Solid	SW8015P	
890-335-3	SW03	Total/NA	Solid	SW8015P	
890-335-4	FS01	Total/NA	Solid	SW8015P	
890-335-5	FS02	Total/NA	Solid	SW8015P	
890-335-6	FS03	Total/NA	Solid	SW8015P	
890-335-7	FS04	Total/NA	Solid	SW8015P	
890-335-8	FS05	Total/NA	Solid	SW8015P	
7723503-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723503-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723503-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
691748-001 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
691748-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

### Prep Batch: 3154078\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-335-8	FS05	Total/NA	Solid	E300P	
7723593-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723593-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723593-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
691748-008 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
691748-008 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

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Job ID: 890-335-1

SDG: TE012921018

### Released to Imaging: 6/28/2022 1:12:34 PM

Project/Site: Golden Child CTB

**Client Sample ID: SW01** 

Date Collected: 03/12/21 08:25

Date Received: 03/12/21 14:20

**Client Sample ID: SW02** 

Date Collected: 03/12/21 11:20

Date Received: 03/12/21 14:20

Batch

Туре

Prep

Prep

Prep

Analysis

Analysis

Analysis

Batch

Method

E300P

SW5035A

BTEX 8021

SW8015P

CHLORIDE E300

TPH 8015 NM MOD

TPH 8015\_NM\_MOD

Client: WSP USA Inc.

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Dilution

Factor

1

1

1

1

1

1

1

Run

Batch

3153756 P 03/15/21 09:00

3153746 P 03/15/21 14:45

3153941\_P 03/16/21 12:00

Number

Prepared

or Analyzed

3153756 03/15/21 14:50 KTL

3153746 03/15/21 21:46 CHE

3153941 03/16/21 11:49 ARM

Analyst

Lab

XM

ΧМ

ΧМ

ΧМ

ΧМ

ΧМ

Job ID: 890-335-1 SDG: TE012921018

### Lab Sample ID: 890-335-1

Matrix: Solid

Lab Sample ID: 890-335-2 Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Prep	SW5035A		1	3153756_P	03/15/21 09:00		XM	
Total/NA	Analysis	BTEX 8021		1	3153756	03/15/21 15:11	KTL	XM	
Total/NA	Prep	E300P		1	3153746_P	03/15/21 14:45		XM	
Total/NA	Analysis	CHLORIDE E300		1	3153746	03/15/21 21:51	CHE	XM	
Total/NA	Prep	SW8015P		1	3153941 P	03/16/21 12:00		XM	

### **Client Sample ID: SW03** Date Collected: 03/12/21 11:25 Date Received: 03/12/21 14:20

Analysis

-	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153756_P	03/15/21 09:00		XM
Total/NA	Analysis	BTEX 8021		1	3153756	03/15/21 15:31	KTL	XM
Total/NA	Prep	E300P		1	3153746_P	03/15/21 14:45		XM
Total/NA	Analysis	CHLORIDE E300		5	3153746	03/15/21 22:08	CHE	XM
Total/NA	Prep	SW8015P		1	3153941_P	03/16/21 12:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153941	03/16/21 13:14	ARM	XM

### **Client Sample ID: FS01** Date Collected: 03/12/21 08:30 Date Received: 03/12/21 14:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153756_P	03/15/21 09:00		XM
Total/NA	Analysis	BTEX 8021		1	3153756	03/15/21 15:51	KTL	XM
Total/NA	Prep	E300P		1	3153746_P	03/15/21 14:45		XM
Total/NA	Analysis	CHLORIDE E300		1	3153746	03/15/21 22:14	CHE	XM
Total/NA	Prep	SW8015P		1	3153941_P	03/16/21 12:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153941	03/16/21 13:35	ARM	XM

### Lab Sample ID: 890-335-4 Matrix: Solid

#### ΧМ 3153941 03/16/21 12:53 ARM Lab Sample ID: 890-335-3 Matrix: Solid
Project/Site: Golden Child CTB

Client Sample ID: FS02

**Client Sample ID: FS03** 

Date Collected: 03/12/21 10:50

Date Received: 03/12/21 14:20

Date Collected: 03/12/21 11:15

Date Received: 03/12/21 14:20

Batch

Type

Prep

Prep

Prep

Analysis

Analysis

Analysis

Batch

Type

Prep

Prep

Prep

Analysis

Analysis

Analysis

Batch

Method

E300P

Batch

Method

E300P

SW5035A

BTEX 8021

SW8015P

CHLORIDE E300

SW5035A

BTEX 8021

SW8015P

CHLORIDE E300

TPH 8015\_NM\_MOD

Client: WSP USA Inc.

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Dilution

Factor

1

1

1

1

1

1

Dilution

Factor

1

1

1

1

1

1

Run

Run

Batch

Batch

Number

Number

3153756 P

Prepared

or Analyzed

03/15/21 09:00

3153756 03/15/21 16:12 KTL

3153746 03/15/21 22:30 CHE

3153941 03/16/21 13:56 ARM

Prepared

3153756 03/15/21 16:32 KTL

3153836 03/16/21 11:07 CHE

3153941 03/16/21 14:17 ARM

or Analyzed

3153746 P 03/15/21 14:45

3153941 P 03/16/21 12:00

3153756 P 03/15/21 09:00

3153836 P 03/16/21 10:45

3153941 P 03/16/21 12:00

Analyst

Analyst

Lab

XM

ΧМ

ΧМ

XM

ΧМ

XM

Lab

XM

ХМ

ΧМ

ΧМ

ΧМ

XM

Job ID: 890-335-1 SDG: TE012921018

## Lab Sample ID: 890-335-5

Matrix: Solid

# Lab Sample ID: 890-335-6 Matrix: Solid

### TPH 8015\_NM\_MOD Client Sample ID: FS04 Date Collected: 03/12/21 10:55 Date Received: 03/12/21 14:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153756_P	03/15/21 09:00		XM
Total/NA	Analysis	BTEX 8021		1	3153756	03/15/21 16:53	KTL	XM
Total/NA	Prep	E300P		1	3153836_P	03/16/21 10:45		XM
Total/NA	Analysis	CHLORIDE E300		1	3153836	03/16/21 11:23	CHE	XM
Total/NA	Prep	SW8015P		1	3153941_P	03/16/21 12:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153941	03/16/21 14:38	ARM	XM

### **Client Sample ID: FS05** Date Collected: 03/12/21 11:00 Date Received: 03/12/21 14:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153756_P	03/15/21 09:00		XM
Total/NA	Analysis	BTEX 8021		1	3153756	03/15/21 17:13	KTL	XM
Total/NA	Prep	E300P		1	3154078_P	03/18/21 10:30		XM
Total/NA	Analysis	CHLORIDE E300		1	3154078	03/18/21 10:57	CHE	XM
Total/NA	Prep	SW8015P		1	3153941_P	03/16/21 12:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153941	03/16/21 15:00	ARM	XM

#### Laboratory References:

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

**Eurofins Carlsbad** 

Released to Imaging: 6/28/2022 1:12:34 PM

Lab Sample ID: 890-335-7 Matrix: Solid

Lab Sample ID: 890-335-8

Matrix: Solid

Job ID: 890-335-1 SDG: TE012921018

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10

## Laboratory: Eurofins Midland

uthority	Program	Identification Number	Expiration Date	
exas	NELAP	T104704400-20-21	06-30-21	

Project/Site: Golden Child CTB

## Job ID: 890-335-1 SDG: TE012921018

Method	Method Description	Protocol	Laboratory
Subcontract	BTEX 8021	None	XM
Subcontract	CHLORIDE E300	None	XM
Subcontract	TPH 8015_NM_MOD	None	XM

#### **Protocol References:**

Client: WSP USA Inc.

None = None

#### Laboratory References:

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

**Eurofins Carlsbad** 

## Sample Summary

Client: WSP USA Inc. Project/Site: Golden Child CTB

Received by OCD: 6/1/2021 1:28:14 PM

Job ID: 890-335-1 SDG: TE012921018

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID	
890-335-1	SW01	Solid	03/12/21 08:25	03/12/21 14:20		_
890-335-2	SW02	Solid	03/12/21 11:20	03/12/21 14:20		
890-335-3	SW03	Solid	03/12/21 11:25	03/12/21 14:20		
890-335-4	FS01	Solid	03/12/21 08:30	03/12/21 14:20		
890-335-5	FS02	Solid	03/12/21 11:15	03/12/21 14:20		
890-335-6	FS03	Solid	03/12/21 10:50	03/12/21 14:20		
890-335-7	FS04	Solid	03/12/21 10:55	03/12/21 14:20		
890-335-8	FS05	Solid	03/12/21 11:00	03/12/21 14:20		
						1
						1

**Eurofins Carlsbad** 

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		(Signature)	ment and reinquishment or sa be liable only for the cost of s n charge of \$85.00 will be appl	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed			<							~	ication Matrix		Yes the N/A	Yes No N/A		Temp Blank:		1=1:2= 2=1	Eddy County	TE012921018	Goldench, Id	236-	ind TV	Nor		Moi	
	(loc Cu	Received by: (Signature)	amples constitutes a valid pur amples and shall not assume lied to each project and a cha	8RCRA nalyzed T			4	10	0	_	80	5211		-	Date Sampled	Corrected Temperature:	Temperature Reading:	Correction Factor:	Thermometer ID:	Yes No We	the	2	NN		CTB	-3849	79705	1	Perminy 0		Environment Testing Xenco
	-	gnature)	renase order from client compar any responsibility for any losse: arge of \$5 for each sample subn	A 13PPM Texas 11 TCLP / SPLP 6010 : 8R			, 000	1055 31	-	-	0		Q	0'-2'	Time Depth Grab/ Sampled Comp		ling: Dig	-0,2	LOOM DOT	Wet Ice: Yes No	the lab, if received by 4:30pm	starts the day received by	Due Date:	Routine Brush 24-4	Turn Around	Email: dizabeth.nn	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	
6	1380	Date/Time Relinquished by: (Signature)	worker Signature of this document and reinquisiment of samples constructes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service, Eurofins Xenco, will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Service. Eurofins Xenco, A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe PE 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo	1 - What	A AND AN ON	4 4 4							××	Cont TPI BTE Ch	H EX ( luna	le	РА 94 (Е	0-	eter: 701 80	5)	) 0)		Y Pres.	ANAI	h.nn Ka Quesp. cin dan. Morreusp.	Constand N/M 8822	22 West	VIN NIN	144C	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
		by: (Signature) Received	ns standard terms and conditions rcumstances beyond the control e enforced unless previously negotiated.	I K ve													1.4	890-335 Chain of Custody							ANALYSIS REQUEST	Deliverables: EDD			Program: UST/PST		Wor
Peer		Received by: (Signature)		302 Na Sr II Sh U 1631/245.1/7470/7			¢							Compos	Sam	NaOH+Asc	Zn Acetate	Na 2S 2O 3: NaSO 3	NaHSO 4: NABIS	H₃PO ₄; HP	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	HCL: HC	Cool: Cool	None: NO	Prese	ADaPT	Reporting: Level II Level III PST/UST TRRP	]	UST/PST PRP Brownfields	Work Order Comments	Work Order No:
Revised Dava 08/25/2020 Rev. 2020.2		Date/Time		v zn 7471										posite	Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	VaSO 3	VABIS		NaOH: Na	HNO 3: HN	MeOH: Me	DI Water: H <sub>2</sub> O	Preservative Codes	Other:			RRC Superfund		of

Received by OCD: 6/1/2021 1:28:14 PM

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

🔅 eurofins

## Environment Testing America

## **ANALYTICAL REPORT**

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

## Laboratory Job ID: 890-554-1

Laboratory Sample Delivery Group: Eddy County NM Client Project/Site: Goldenchild Battery - TE012921018

## For:

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

Attn: Dan Moir

RAMER

Authorized for release by: 4/26/2021 7:37:19 PM

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

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

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

LINKS

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www.eurofinsus.com/Env
Reteased to Imaging: 6/28/2022 I:12:34 PM

SDG: Eddy County NM

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Method Summary	16
Sample Summary	17
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Receipt Checklists	20

Client: WSP U Project/Site: G

	A Inc. Idenchild Battery - TE012921018	Job ID: 890-554-1 SDG: Eddy County NM	
			3
	Qualifier Description		
	Surrogate recovery exceeds control limits, high biased.		
	Indicates the analyte was analyzed for but not detected.		5
Δ			_

#### GC Semi VOA Qualifier **Qualifier Description** S1-Surrogate recovery exceeds control limits, low biased. U Indicates the analyte was analyzed for but not detected. HPLC/IC

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

Qualifiers GC VOA Qualifier S1+ U

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

## **Case Narrative**

Client: WSP USA Inc. Project/Site: Goldenchild Battery - TE012921018 Job ID: 890-554-1 SDG: Eddy County NM

## Job ID: 890-554-1

#### Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-554-1

#### Receipt

The samples were received on 4/22/2021 12:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

#### **Receipt Exceptions**

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FS06 (890-554-1), SW04 (890-554-2), PH04 (890-554-3) and PH04 A (890-554-4).

#### GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS06 (890-554-1), SW04 (890-554-2), PH04 (890-554-3) and PH04 A (890-554-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

#### GC Semi VOA

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

#### HPLC/IC

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

## **Client Sample Results**

Client: WSP USA Inc. Project/Site: Goldenchild Battery - TE012921018

### **Client Sample ID: FS06**

Date Collected: 04/22/21 09:25 Date Received: 04/22/21 12:35

Sample Depth: - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/23/21 13:38	04/24/21 17:18	1
Toluene	0.00363		0.00199	mg/Kg		04/23/21 13:38	04/24/21 17:18	1
Ethylbenzene	0.00456		0.00199	mg/Kg		04/23/21 13:38	04/24/21 17:18	1
m-Xylene & p-Xylene	0.0103		0.00398	mg/Kg		04/23/21 13:38	04/24/21 17:18	1
o-Xylene	0.00362		0.00199	mg/Kg		04/23/21 13:38	04/24/21 17:18	1
Xylenes, Total	0.0139		0.00398	mg/Kg		04/23/21 13:38	04/24/21 17:18	1
Total BTEX	0.0221		0.00398	mg/Kg		04/23/21 13:38	04/24/21 17:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	219	S1+	70 - 130			04/23/21 13:38	04/24/21 17:18	1
1,4-Difluorobenzene (Surr)	78		70 - 130			04/23/21 13:38	04/24/21 17:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		04/23/21 13:47	04/26/21 14:52	1	
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/23/21 13:47	04/26/21 14:52	1	
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/23/21 13:47	04/26/21 14:52	1	
Total TPH	<50.0	U	50.0	mg/Kg		04/23/21 13:47	04/26/21 14:52	1	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 _ 130	04/23/21 13:47	04/26/21 14:52	1
o-Terphenyl	67	S1-	70 - 130	04/23/21 13:47	04/26/21 14:52	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.5	4.97	mg/Kg			04/25/21 09:19	1

## **Client Sample ID: SW04**

Date Collected: 04/22/21 09:45 Date Received: 04/22/21 12:35

Sample Depth: 0 - 4

Xvlenes. Total

Method: 8021B - Volatile Or	ganic Compounds (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed
Benzene	<0.00199	U	0.00199	mg/Kg		04/23/21 13:38	04/24/21 17:39
Toluene	<0.00199	U	0.00199	mg/Kg		04/23/21 13:38	04/24/21 17:39
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/23/21 13:38	04/24/21 17:39
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/23/21 13:38	04/24/21 17:39
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/23/21 13:38	04/24/21 17:39

<0.00398 U

Xylenes, Total	<0.00398	U	0.00398	mg/Kg	04/23/21 13:38	04/24/21 17:39	1
Total BTEX	<0.00398	U	0.00398	mg/Kg	04/23/21 13:38	04/24/21 17:39	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	211	S1+	70 - 130		04/23/21 13:38	04/24/21 17:39	1
1,4-Difluorobenzene (Surr)	102		70 - 130		04/23/21 13:38	04/24/21 17:39	1

0.00398

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-554-2

Matrix: Solid

Dil Fac

1

1

1

1

1

Job ID: 890-554-1 SDG: Eddy County NM

## Lab Sample ID: 890-554-1

Matrix: Solid

## Client Sample ID: SW04

Date Collected: 04/22/21 09:45 Date Received: 04/22/21 12:35

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		04/23/21 13:47	04/26/21 15:13	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/23/21 13:47	04/26/21 15:13	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/23/21 13:47	04/26/21 15:13	1
Total TPH	<50.0	U	50.0	mg/Kg		04/23/21 13:47	04/26/21 15:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	60	S1-	70 - 130			04/23/21 13:47	04/26/21 15:13	1
o-Terphenyl	52	S1-	70 - 130			04/23/21 13:47	04/26/21 15:13	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.0	4.99	mg/Kg			04/25/21 09:24	1

### **Client Sample ID: PH04**

Date Collected: 04/22/21 10:20 Date Received: 04/22/21 12:35 Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198		0.00198	mg/Kg		04/23/21 13:38	04/24/21 18:00	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/23/21 13:38	04/24/21 18:00	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/23/21 13:38	04/24/21 18:00	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		04/23/21 13:38	04/24/21 18:00	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/23/21 13:38	04/24/21 18:00	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		04/23/21 13:38	04/24/21 18:00	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		04/23/21 13:38	04/24/21 18:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			04/23/21 13:38	04/24/21 18:00	1

1,4-Difluorobenzene (Surr)	89		70 - 130			04/23/21 13:38	04/24/21 18:00	
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	0
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/23/21 13:47	04/26/21 15:34	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/23/21 13:47	04/26/21 15:34	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/23/21 13:47	04/26/21 15:34	
Total TPH	<50.0	U	50.0	mg/Kg		04/23/21 13:47	04/26/21 15:34	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	
1-Chlorooctane	76		70 - 130			04/23/21 13:47	04/26/21 15:34	
o-Terphenyl	69	S1-	70 - 130			04/23/21 13:47	04/26/21 15:34	

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.7		4.95	mg/Kg			04/25/21 09:29	1

Eurofins Xenco, Carlsbad

## Job ID: 890-554-1

SDG: Eddy County NM

## Lab Sample ID: 890-554-2

Lab Sample ID: 890-554-3

Matrix: Solid

1

1

1 1

1

Dil Fac 1

Dil Fac 1

Matrix: Solid

## **Client Sample ID: PH04 A**

Date Collected: 04/22/21 10:25 Date Received: 04/22/21 12:35

Sample Depth: - 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/23/21 13:38	04/24/21 18:20	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/23/21 13:38	04/24/21 18:20	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/23/21 13:38	04/24/21 18:20	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		04/23/21 13:38	04/24/21 18:20	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/23/21 13:38	04/24/21 18:20	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		04/23/21 13:38	04/24/21 18:20	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		04/23/21 13:38	04/24/21 18:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			04/23/21 13:38	04/24/21 18:20	1
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	117 109		70 - 130 70 - 130			04/23/21 13:38 04/23/21 13:38	04/24/21 18:20 04/24/21 18:20	1
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang	109	RO) (GC)						1
1,4-Difluorobenzene (Surr)	109 ge Organics (DI	RO) (GC) Qualifier		Unit	D			1 1 Dil Fac
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang	109 ge Organics (DI	Qualifier	70 - 130	Unit mg/Kg	D	04/23/21 13:38	04/24/21 18:20	1 1 
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	109 ge Organics (DI Result	Qualifier	70 - 130		D	04/23/21 13:38 Prepared	04/24/21 18:20 Analyzed	1 1 Dil Fac
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte	109 ge Organics (DI Result	Qualifier U	70 - 130		<u>D</u>	04/23/21 13:38 Prepared	04/24/21 18:20 Analyzed	1 1 Dil Fac 1
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	109 ge Organics (DI 	Qualifier U U	70 - 130 	mg/Kg	<u>D</u>	04/23/21 13:38 Prepared 04/23/21 13:47	04/24/21 18:20 Analyzed 04/26/21 15:56	1 1 Dil Fac 1

Total TPH	<49.9	U	49.9	mg/Kg	04/23/21 13:47	04/26/21 15:56	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130		04/23/21 13:47	04/26/21 15:56	1
o-Terphenyl	70		70 - 130		04/23/21 13:47	04/26/21 15:56	1
Method: 300.0 - Anions, Ion Chron		Soluble					

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.2		5.00	mg/Kg			04/25/21 09:34	1

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Job ID: 890-554-1 SDG: Eddy County NM

## Lab Sample ID: 890-554-4

Matrix: Solid

5

## **Surrogate Summary**

Client: WSP USA Inc. Project/Site: Goldenchild Battery - TE012921018 Job ID: 890-554-1 SDG: Eddy County NM

Prep Type: Total/NA

Prep Type: Total/NA

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

#### Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-554-1	FS06	219 S1+	78	
890-554-2	SW04	211 S1+	102	
890-554-3	PH04	111	89	
890-554-4	PH04 A	117	109	
LCS 880-2226/1-B	Lab Control Sample	90	103	
LCSD 880-2226/2-B	Lab Control Sample Dup	97	107	
MB 880-2226/5-B	Method Blank	109	98	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

#### Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
554-1	FS06	79	67 S1-	
54-2	SW04	60 S1-	52 S1-	
554-3	PH04	76	69 S1-	
54-4	PH04 A	80	70	
30-2228/2-A	Lab Control Sample	111	102	
D 880-2228/3-A	Lab Control Sample Dup	103	98	
80-2228/1-A	Method Blank	111	115	

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Lab Sample ID: MB 880-2226/5-B

## **QC Sample Results**

Client: WSP USA Inc. Project/Site: Goldenchild Battery - TE012921018

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

Matrix: Solid Analysis Batch: 2277							Prep Type: 1 Prep Bato	
	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/23/21 13:38	04/24/21 16:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/23/21 13:38	04/24/21 16:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/23/21 13:38	04/24/21 16:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/23/21 13:38	04/24/21 16:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/23/21 13:38	04/24/21 16:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/23/21 13:38	04/24/21 16:15	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		04/23/21 13:38	04/24/21 16:15	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130		-	04/23/21 13:38	04/24/21 16:15	1
1,4-Difluorobenzene (Surr)	98		70 - 130			04/23/21 13:38	04/24/21 16:15	1

## Matrix: Solid Analysis Batch: 2277

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08212		mg/Kg		82	70 - 130	
Toluene	0.100	0.09331		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.09093		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	0.200	0.1860		mg/Kg		93	70 - 130	
o-Xylene	0.100	0.09092		mg/Kg		91	70 - 130	

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

#### Lab Sample ID: LCSD 880-2226/2-B Matrix: Solid

Analysis Batch: 2277									Pre	p Batch:	: 2226
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.08693		mg/Kg		87	70 - 130	6	35
Toluene			0.100	0.1020		mg/Kg		102	70 - 130	9	35
Ethylbenzene			0.100	0.09697		mg/Kg		97	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1979		mg/Kg		99	70 - 130	6	35
o-Xylene			0.100	0.09656		mg/Kg		97	70 - 130	6	35
	1.000	LCSD									
	LUSD	LUSD									
Surrogate	%Recovery	Qualifier	Limits								

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Client Sample ID: Lab Control Sample Dup

#### Prep Type: Total/NA Prep Batch: 2226

Prep Type: Total/NA

Job ID: 890-554-1

SDG: Eddy County NM

**Client Sample ID: Method Blank** 

## **QC Sample Results**

Client: WSP USA Inc. Project/Site: Goldenchild Battery - TE012921018

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

Lab Sample ID: MB 880-2228/1	1-A							C	Client Sa	mple ID:		
Matrix: Solid											Type: To	
Analysis Batch: 2306										Pre	p Batch	n: 2228
		MB										
Analyte		Qualifier			Unit		D		epared	Analyz		Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/K	9		04/23	/21 13:47	04/26/21	08:31	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/K	g		04/23	/21 13:47	04/26/21	08:31	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/K	g		04/23	/21 13:47	04/26/21	08:31	
Total TPH	<50.0	U	50.0		mg/K	g		04/23	/21 13:47	04/26/21	08:31	
	MB	MB										
Surrogate	%Recovery	Qualifier	Limits				_	Pre	epared	Analyz	zed	Dil Fa
1-Chlorooctane	111		70 - 130					04/23	/21 13:47	04/26/21	08:31	
p-Terphenyl	115	5	70 - 130					04/23	/21 13:47	04/26/21	08:31	
Lab Sample ID: LCS 880-2228	/ <b>2-A</b>						CI	ient \$	Sample I	D: Lab Co		
Matrix: Solid										Prep 1	Гуре: То	otal/N
Analysis Batch: 2306										Pre	p Batch	h: 222
			Spike	LCS	LCS					%Rec.		
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics GRO)-C6-C10			1000	1174		mg/Kg			117	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1036		mg/Kg			104	70 - 130		
- /												
- /	LCS LCS	S										
		S alifier	Limits									
Surrogate			Limits 70 - 130									
Surrogate	%Recovery Qua											
Surrogate 1-Chlorooctane o-Terphenyl	<b>%Recovery</b> Qua 111 102		70 - 130			Cli	ents	Samp	ole ID: La	ab Contro	ol Samp	ole Du
Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-222	<b>%Recovery</b> Qua 111 102		70 - 130			Cli	ent (	Samp	ble ID: La			
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-222 Matrix: Solid	<b>%Recovery</b> Qua 111 102		70 - 130			Cli	ent \$	Samp	ble ID: La	Prep 1	Type: To	otal/N
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-222 Matrix: Solid	<b>%Recovery</b> Qua 111 102		70 - 130 70 - 130	LCSD	LCSD	Cli	ent (	Samp	ole ID: La	Prep 1		otal/N h: 222
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-222 Matrix: Solid Analysis Batch: 2306	<b>%Recovery</b> Qua 111 102		70 - 130 70 - 130 <b>Spike</b>				ent \$	Samp		Prep 1 Pre %Rec.	Type: To p Batch	otal/N h: 222 RP
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-222 Matrix: Solid Analysis Batch: 2306 Analyte Gasoline Range Organics	<b>%Recovery</b> Qua 111 102		70 - 130 70 - 130		LCSD Qualifier	Cli mg/Kg	ent (	-	<b>Sole ID: La</b>	Prep 1 Pre	Type: To	otal/N h: 222 RP Lim
Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-222 Matrix: Solid Analysis Batch: 2306 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<b>%Recovery</b> Qua 111 102		70 - 130 70 - 130 Spike Added	Result		Unit	ent (	-	%Rec	Prep 1 Pre %Rec. Limits	Type: To p Batch 	otal/N h: 222 RP Lim 2
Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-222 Matrix: Solid Analysis Batch: 2306 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<b>%Recovery</b> Qua 111 102	alifier	70 - 130 70 - 130 Spike Added 1000	Result 1125		Unit mg/Kg	ent S	-	%Rec	Prep 7 Pre %Rec. Limits 70 - 130	Type: To p Batch RPD 4	otal/N h: 222 RP Lim 2
Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-222 Matrix: Solid Analysis Batch: 2306 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<u>%Recovery</u> Qua 111 102 28/3-A 	alifier	70 - 130 70 - 130 Spike Added 1000	Result 1125		Unit mg/Kg	ent S	-	%Rec	Prep 7 Pre %Rec. Limits 70 - 130	Type: To p Batch RPD 4	h: 222 RP Lim
Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-222 Matrix: Solid Analysis Batch: 2306 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	<u>%Recovery</u> Qua 111 102 28/3-A 	sD	70 - 130 70 - 130 <b>Spike</b> Added 1000	Result 1125		Unit mg/Kg	ent S	-	%Rec	Prep 7 Pre %Rec. Limits 70 - 130	Type: To p Batch RPD 4	otal/N h: 222 RP Lim 2
Surrogate 1-Chlorooctane D-Terphenyl Lab Sample ID: LCSD 880-222 Matrix: Solid Analysis Batch: 2306 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	%Recovery Qua 111 102 88/3-A LCSD LC3 %Recovery Qua	sD	70 - 130 70 - 130 Spike Added 1000 1000	Result 1125		Unit mg/Kg	ent S	-	%Rec	Prep 7 Pre %Rec. Limits 70 - 130	Type: To p Batch RPD 4	otal/N h: 222 RP Lim
Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-222 Matrix: Solid Analysis Batch: 2306 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane p-Terphenyl	%Recovery         Quadratic           111         102           28/3-A	SD	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1125		Unit mg/Kg	ent S	-	%Rec	Prep 7 Pre %Rec. Limits 70 - 130	Type: To p Batch RPD 4	otal/N h: 222 RP Lim 2
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-222 Matrix: Solid Analysis Batch: 2306 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl lethod: 300.0 - Anions, lo	%Recovery         Quadratic           111         102           102         103           %Recovery         Quadratic           %Recovery         Quadratic           103         98           on Chromatogi         103	SD	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1125		Unit mg/Kg	ent \$	<u>D</u> _	%Rec 112 101	Prep 7 Pre %Rec. Limits 70 - 130	Type: To p Batch RPD 4 2	otal/N h: 222 RF Lim
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-222 Matrix: Solid Analysis Batch: 2306 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl lethod: 300.0 - Anions, lo Lab Sample ID: MB 880-2211/1	%Recovery         Quadratic           111         102           102         103           %Recovery         Quadratic           %Recovery         Quadratic           103         98           on Chromatogi         103	SD	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1125		Unit mg/Kg	ent \$	<u>D</u> _	%Rec 112 101	Prep 1 Pre %Rec. Limits 70 - 130 70 - 130	Type: To p Batch RPD 4 2	h: 222 RP Lim 2 2
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-222 Matrix: Solid Analysis Batch: 2306 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl lethod: 300.0 - Anions, lo Lab Sample ID: MB 880-2211/1 Matrix: Solid	%Recovery         Quadratic           111         102           102         103           %Recovery         Quadratic           %Recovery         Quadratic           103         98           on Chromatogi         103	SD	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1125		Unit mg/Kg	ent {	<u>D</u> _	%Rec 112 101	Prep 1 Pre %Rec. Limits 70 - 130 70 - 130	Type: To p Batch RPD 4 2 Method	h: 222 RP Lim 2 2
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-222 Matrix: Solid Analysis Batch: 2306 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl lethod: 300.0 - Anions, lo Lab Sample ID: MB 880-2211/1 Matrix: Solid	%Recovery         Quadratic           111         102           18/3-A	SD	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1125		Unit mg/Kg	ent \$	<u>D</u> _	%Rec 112 101	Prep 1 Pre %Rec. Limits 70 - 130 70 - 130	Type: To p Batch RPD 4 2 Method	h: 222 RP Lim 2 2
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-222 Matrix: Solid Analysis Batch: 2306 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Io Lab Sample ID: MB 880-2211/1 Matrix: Solid Analysis Batch: 2297 Analyte	<u>%Recovery</u> <u>111</u> <u>102</u> <b>28/3-A</b> <u>LCSD</u> <u>LCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u>CCSD</u> <u></u>	SD alifier raphy	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1125		Unit mg/Kg	ent S	<u>D</u>	%Rec 112 101	Prep 1 Pre %Rec. Limits 70 - 130 70 - 130	Type: To p Batch RPD 4 2 Method Type: S	otal/N/ h: 2224 RPI Limi 20 20

Job ID: 890-554-1

SDG: Eddy County NM

#### Job ID: 890-554-1 SDG: Eddy County NM

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-2211/2-A Matrix: Solid					Client	t Sample	ID: Lab Co Prep	ontrol S Type: S	
Analysis Batch: 2297	Spike		LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	<u>D</u>	%Rec	Limits		
Chloride	250	268.9		mg/Kg		108	90 - 110		
Lab Sample ID: LCSD 880-2211/3-A				Clier	nt San	nple ID: I	Lab Contro	ol Sampl	e Dup
Matrix: Solid							Prep	Type: S	oluble
Analysis Batch: 2297									
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
· · · · · · · · · · · · · · · · · · ·									

Eurofins Xenco, Carlsbad

## **QC Association Summary**

Client: WSP USA Inc. Project/Site: Goldenchild Battery - TE012921018

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#### Job ID: 890-554-1 SDG: Eddy County NM

**GC VOA** 

#### Prep Batch: 2226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-554-1	FS06	Total/NA	Solid	5035	
890-554-2	SW04	Total/NA	Solid	5035	
890-554-3	PH04	Total/NA	Solid	5035	
890-554-4	PH04 A	Total/NA	Solid	5035	
MB 880-2226/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-2226/1-B	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2226/2-B	Lab Control Sample Dup	Total/NA	Solid	5035	

#### Analysis Batch: 2277

Lab Control Sample Dup	TOtal/INA	Solid	3033		0
					8
Client Sample ID	Prep Type	Matrix	Method	Prep Batch	9
FS06	Total/NA	Solid	8021B	2226	
SW04	Total/NA	Solid	8021B	2226	
PH04	Total/NA	Solid	8021B	2226	
PH04 A	Total/NA	Solid	8021B	2226	
Method Blank	Total/NA	Solid	8021B	2226	
Lab Control Sample	Total/NA	Solid	8021B	2226	
Lab Control Sample Dup	Total/NA	Solid	8021B	2226	
	Client Sample ID FS06 SW04 PH04 PH04 A Method Blank Lab Control Sample	Client Sample IDPrep TypeFS06Total/NASW04Total/NAPH04Total/NAPH04 ATotal/NAMethod BlankTotal/NALab Control SampleTotal/NA	Client Sample IDPrep TypeMatrixFS06Total/NASolidSW04Total/NASolidPH04Total/NASolidPH04 ATotal/NASolidMethod BlankTotal/NASolidLab Control SampleTotal/NASolid	Client Sample IDPrep TypeMatrixMethodFS06Total/NASolid8021BSW04Total/NASolid8021BPH04Total/NASolid8021BPH04 ATotal/NASolid8021BMethod BlankTotal/NASolid8021BLab Control SampleTotal/NASolid8021B	Client Sample IDPrep TypeMatrixMethodPrep BatchFS06Total/NASolid8021B2226SW04Total/NASolid8021B2226PH04Total/NASolid8021B2226PH04 ATotal/NASolid8021B2226PH04 ATotal/NASolid8021B2226Dethod BlankTotal/NASolid8021B2226Lab Control SampleTotal/NASolid8021B2226

#### GC Semi VOA

#### Prep Batch: 2228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-554-1	FS06	Total/NA	Solid	8015NM Prep	
890-554-2	SW04	Total/NA	Solid	8015NM Prep	
890-554-3	PH04	Total/NA	Solid	8015NM Prep	
890-554-4	PH04 A	Total/NA	Solid	8015NM Prep	
MB 880-2228/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2228/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2228/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 2306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-554-1	FS06	Total/NA	Solid	8015B NM	2228
890-554-2	SW04	Total/NA	Solid	8015B NM	2228
890-554-3	PH04	Total/NA	Solid	8015B NM	2228
890-554-4	PH04 A	Total/NA	Solid	8015B NM	2228
MB 880-2228/1-A	Method Blank	Total/NA	Solid	8015B NM	2228
LCS 880-2228/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2228
LCSD 880-2228/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2228

#### HPLC/IC

#### Leach Batch: 2211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-554-1	FS06	Soluble	Solid	DI Leach	
890-554-2	SW04	Soluble	Solid	DI Leach	
890-554-3	PH04	Soluble	Solid	DI Leach	
890-554-4	PH04 A	Soluble	Solid	DI Leach	
MB 880-2211/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2211/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2211/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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## **QC Association Summary**

Client: WSP USA Inc. Project/Site: Goldenchild Battery - TE012921018 Job ID: 890-554-1 SDG: Eddy County NM

#### HPLC/IC

### Analysis Batch: 2297

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-554-1	FS06	Soluble	Solid	300.0	2211
890-554-2	SW04	Soluble	Solid	300.0	2211
890-554-3	PH04	Soluble	Solid	300.0	2211
890-554-4	PH04 A	Soluble	Solid	300.0	2211
MB 880-2211/1-A	Method Blank	Soluble	Solid	300.0	2211
LCS 880-2211/2-A	Lab Control Sample	Soluble	Solid	300.0	2211
LCSD 880-2211/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2211

Eurofins Xenco, Carlsbad

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Project/Site: Goldenchild Battery - TE012921018

Job ID: 890-554-1 SDG: Eddy County NM

## **Client Sample ID: FS06**

Client: WSP USA Inc.

Date Collected: 04/22/21 09:25 Date Received: 04/22/21 12:35

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2226	04/23/21 13:38	KL	XM
Total/NA	Analysis	8021B		1	2277	04/24/21 17:18	KL	XM
Total/NA	Prep	8015NM Prep			2228	04/23/21 13:47	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/26/21 14:52	AJ	XM
Soluble	Leach	DI Leach			2211	04/23/21 12:16	СН	XM
Soluble	Analysis	300.0		1	2297	04/25/21 09:19	WP	XM

#### **Client Sample ID: SW04** Date Collected: 04/22/21 09:45

Date Received: 04/22/21 12:35

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2226	04/23/21 13:38	KL	XM
Total/NA	Analysis	8021B		1	2277	04/24/21 17:39	KL	XM
Total/NA	Prep	8015NM Prep			2228	04/23/21 13:47	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/26/21 15:13	AJ	XM
Soluble	Leach	DI Leach			2211	04/23/21 12:16	СН	XM
Soluble	Analysis	300.0		1	2297	04/25/21 09:24	WP	XM

### **Client Sample ID: PH04**

Date Collected: 04/22/21 10:20 Date Received: 04/22/21 12:35

### Lab Sample ID: 890-554-3 Matrix: Solid

Lab Sample ID: 890-554-4

Matrix: Solid

Lab Sample ID: 890-554-2

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA 5035 XM Prep 2226 04/23/21 13:38 KL Total/NA Analysis 8021B 2277 04/24/21 18:00 XM 1 KL Total/NA 8015NM Prep 04/23/21 13:47 XM Prep 2228 DM Total/NA 8015B NM 2306 04/26/21 15:34 XM Analysis 1 AJ 04/23/21 12:16 XM Soluble Leach DI Leach 2211 СН WP XM Soluble Analysis 300.0 2297 04/25/21 09:29 1

#### **Client Sample ID: PH04 A** Date Collected: 04/22/21 10:25 Date Received: 04/22/21 12:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2226	04/23/21 13:38	KL	XM
Total/NA	Analysis	8021B		1	2277	04/24/21 18:20	KL	XM
Total/NA	Prep	8015NM Prep			2228	04/23/21 13:47	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/26/21 15:56	AJ	XM
Soluble	Leach	DI Leach			2211	04/23/21 12:16	СН	XM
Soluble	Analysis	300.0		1	2297	04/25/21 09:34	WP	XM

#### Laboratory References:

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

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-554-1 Matrix: Solid

oject/Site: Goldenchi	ild Battery - TE0129210	)18		SDG: Eddy Coun	
	ins Xenco, Midland				
less otherwise noted, all a	nalytes for this laboratory we	re covered under each acc	preditation/certification below.		
Authority		rogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-20-21	06-30-21	
The following analytes	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This list ma	ay include analytes for which	
the agency does not off					
Analysis Method 8015B NM	Prep Method 8015NM Prep	Matrix Solid	Analyte Total TPH		
8021B	5035	Solid	Total BTEX		

Eurofins Xenco, Carlsbad

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Client: WSP USA Inc. Project/Site: Goldenchild Battery - TE012921018

Job ID: 890-554-1 SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM
DI Leach	Deionized Water Leaching Procedure	ASTM	XM

#### Protocol References:

ASTM = ASTM International

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

#### Laboratory References:

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

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Eurofins Xenco, Carlsbad

## Sample Summary

Client: WSP USA Inc. Project/Site: Goldenchild Battery - TE012921018

Eurofins Xenco, Carlsbad

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-554-1	FS06	Solid	04/22/21 09:25	04/22/21 12:35	- 4
890-554-2	SW04	Solid	04/22/21 09:45	04/22/21 12:35	0 - 4
890-554-3	PH04	Solid	04/22/21 10:20	04/22/21 12:35	- 1
890-554-4	PH04 A	Solid	04/22/21 10:25	04/22/21 12:35	- 3

#### Job ID: 890-554-1 SDG: Eddy County NM

Revised Date 051418 Rev 2018 1	Re			1			6
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Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	nature)	Received by: (Signature)	Signature)	Relinquished by: (Signature)
	vviously negotiated.	of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotilated.	submitted to Xenco, but not ana	e of \$5 for each sample	ch project and a charg	e of \$75.00 will be applied to ea	of Xenco. A minimum charg
	rd terms and conditions ances beyond the control	Notice: Signature of this document and relinguishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of sociate a variation of the control will be a liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control the control will be a liable only for the cost of samples and standard terms and responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control to control to circumstances beyond the control to	n client company to Xenco, its at the losses or expenses incurred t	and purchase order from	imples constitutes a vi	ument and relinquishment of s	Notice: Signature of this do
U V Zn 7470 / 7471 : Hg	Mn Mo Ni K Se Ag SiO2 Na Sr TI Sn U V Zn Ag 11 U 1631/245.1/7470/7471:	Cd Ca Cr Co Cu Fe Pb Mg <del>Cr Co Cu Pb Min Mb Ni Se</del>	1 Al Sb As Ba Be B RA Sb As Ba Be Cd	RCRA 13PPM Texas 11 A		otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 Circle Method(s) a
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Sample Comments	Sampl		Numb TPH (E BTEX Chlorid	ed Depth	Date Time Sampled Sampled	Matrix	Sample Identification
ab, if received by 4:supm			EPA 8	Iers:	Total Containers:	Yes No N/A	Sample Custody Seals:
/ the	-	890-554 Chain of Cusion	3015) 0=8	ctor: -0.2	Correction Factor:	Z	Cooler Custody Seals:
			) 021)	1	TIM-00	(Yes No	Received Intact:
			)	neter ID	Thermometer ID	1.1/21.4	Temperature (°C):
			5	Wet Ice: Yes No	F	T Temp Blank: Yes No	SAMPLE RECEIPT
			-	Due Date:	and the second sec	Elizabeth Naka	Sampler's Name:
				Rush: 3 day	1	Eddy County	P.O. Number:
				Routine		7E012921018	Project Number:
Work Order Notes	Work	ANALYSIS REQUEST		Turn Around	Battery	Guldenchild B.	Project Name:
	Deliverables: EDD ADaPT Other		@wsp.com, dan.moir@wsp.com	Email: elizabeth.naka@wsp.com,	m m	(432) 236-3849	
			Carlsbad, NM 88220	City, State ZIP:		Midland, Tx 79705	e ZIP:
			522 West Mermond	Address:		3300 North A Street	Address: 3:
Derfund	Program: UST/PST CRP prownfields CRC	Progra	ie: XTO Energy	Company Name:	ffice	WSP USA Inc, Permian office	
	Work Order Comments		t) Kyle Littrell	Bill to: (if different)		Dan Moir	Project Manager: D
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4/26		Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	00 Dallas,TX (214) 902-0300 i40) EL Paso,TX (915)585-34	uston,TX (281) 240-42	Ho		X
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Client Information (Sub Contract Lab)	Sampler <sup>.</sup>			Lab PM Kramer.	M ner. Jessica	8					Carrier Tracking No(s):	Track	ing No	(s):			8 2	COC No: 890-179 1	29 1							
	Phone			E-Mail	E-Mail lessica kramer@eurofinset.com	r@eun	ofinse	com			State of Origin New Mexico	f Origi Mexic	ö ∍				ਾ ਹ	Page: Page	Page: Page 1 of 1	^						
Company Eurofins Xenco					Accreditations Required (See note) NELAP - Louisiana NELAP	ons Req Louisi	uired (S	See note	<sup>note)</sup> AP - Texas	1							<u> </u>	Job # 890-554-1	5 <u>4</u> _1							
Address. 1211 W Florida Ave,	Due Date Requested 4/27/2021	ā						Ana	nalvsis	Reg	Requested	2					──────	reser	Preservation Codes	Ň	odes	<i>"</i>			ļ	
City Midland	TAT Requested (days)	ys)														and the second	<u>ן</u> אמר		Υ Υ	5	\ <b>7 -</b>		Hexane	, o		
State, Zip: TX 79701					1. K. ov												mσc		Zn Acetate Nitric Acid NaHSO4	diffe	0 7 0	ото z Z Z Z	AsNaO2 Na2O4S Na2SO3	ធលស		
Phone: 432-704-5440(Tel)	PO#:				Level and a second												ດ ግ	Ame	MeOH Amchlor				Na2S2O3 H2SO4	S		
Email	WO #				0)											6	<u> </u>		ASCOLDIC ACIO Ice DI Water	ACIO			Acetone	e	anya	Trate
Project Name. Goldenchild Battery	Project #: 89000004				is or l		ΈX									a facel	<u>ד רו</u>	EDTA	Α TA				pH 4-5 other (specify)	pecit	<u>ک</u>	
Sile	SSOW#:				ISD (Y		Calc B									a ka sa ka	Sade Sections	Other <sup>.</sup>								
			Sample Type	Matrix ( <sup>W=water</sup>	Filtered rm MS/N	OD_NM/8 RGFM_2	6035FP_									Number										
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	= <u></u> 0	S=solid O=waste/oil, BT=Tissue, A=Air)	Perfor		3021B/										- set 1	_	Spe	ŝ	100	2	Ï		1	
	M	L		Preservation Code:	X	addanadd	ł	attelant	and test	dire-	<u></u>	la me	utad		-		4	100			1		A			
FS06 (890-554-1)	4/22/21	09 25 Mountain		Solid		××	×									<u>a</u> i	and and a second							1.0000000000000000000000000000000000000		
SW04 (890-554-2)	4/22/21	09 45 Mountain		Solid		××	×									<u>a</u>	in a second									
PH04 (890-554-3)	4/22/21	10 20 Mountain		Solid		××	×																			
PH04 A (890-554-4)	4/22/21	10 25 Mountain		Solid		××	×									4										
																	rent france									
									┼┈┤						+		1 1									
																	and the second									
Note Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instruc LLC attention immediately if all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	C places the ownership < being analyzed the s turn the signed Chain o	of method, an: amples must be of Custody atte	alyte & accredi e shipped bact sting to said co	itation complia k to the Eurofir omplicance to	nce upon ou is Xenco LL Eurofins Xei	ıt subco C labora nco LLC	ntract la atory or	aboratori other ins	tories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco	s samp ns will t	le ship ve prov	ment i ided	s forw Any ch	arded	to ac	chair	1-of-c	:ustoc	iy If Is sho	the la	e bro	tory c yught	to Eu	not c. Irofin	urrer 's Xe	ntly
Possible Hazard Identification Unconfirmed					Sam	Sample Disposal ( A	le Disposal ( A f	lient	fee may be assessed if samples are retained longer than 1 month)	bea	sses	ied ii	san	ples	⊓are	reta	inea		ger	than	3	non	5	'		
Deliverable Requested 1 II III IV Other (specify)	Primary Deliverable Rank	ible Rank 2			Speci	Special Instructions/Q	ruction	ns/QC	C Requirements	emer	ents.								ĺ					ľ		1
Empty Kit Relinquished by		Date			Time							Method of Shipment:	of St	ipmer	ā											
Relinquished by it is a start of the it is a start	Date/lime:			Company	<u>ر</u> م	- Current	D S	2	$\Lambda$	M	$\land$			Date/Time:	ne.	2		1	Ŵa	R	Ľ	Company	bany			
	Date/Time:			Company		Receivéd by	by.		(	I			0	Date/Time:	ne:							Company	bany			
	Date/Time:			Company	7	Received by	by:							Date/Time-	ne.						]	Company	bany			
Custody Seals Intact. Custody Seal No ∆ Yes ∆ No						Cooler Temperature(s	mperat	ure(s) °C	and Other Remarks	her Re	marks		ŀ								ļ					
																						Ver-	Ver: 11/01/2020	1/20	)20	

Job Number: 890-554-1 SDG Number: Eddy County NM

List Source: Eurofins Carlsbad

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 554 List Number: 1

Creator: Clifton, Cloe

<6mm (1/4").

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

Job Number: 890-554-1 SDG Number: Eddy County NM

List Source: Eurofins Midland

List Creation: 04/23/21 11:08 AM

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 554 List Number: 2 Creator: Copeland, Tatiana

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

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

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

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

District III

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

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

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

CONDITIONS

Operator: (	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	30142
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By		Condition Date
jnobui	Deferral Request Approved.	6/28/2022

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Action 30142