

To: NMOCD (District 2) Attn: Chad Hensley (Environmental)

From: Jim Raley – Environmental Specialist WPX Energy Permian LLC 5315 Buena Vista Drive Carlsbad NM, 88220 575-689-7597

To Whom it may Concern, Please find closure request for incident# nAPP2134444397.

Please direct this closure report resubmission to Chad Hensley. After discussions with Dan Moir (WSP) it is my understanding that Mr. Hensley has agreed to review the closure again and reconsider the original denial.

Thank you,

Man Rada

Jim Raley Environmental Specialist – WPX Energy 575-689-7597 (james.raley@wpxenergy.com) District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

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

)

| Incident ID | nAPP2134444397 |
|----------------|----------------|
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| Responsible Party: WPX Energy Permian, LLC | OGRID: 246289 |
|--|---|
| Contact Name: Jim Raley | Contact Telephone: 575-689-7597 |
| Contact email: jim.raley@dvn.com | Incident # (assigned by OCD) nAPP2134444397 |
| Contact mailing address: 5315 Buena Vista Dr., Carlsbad NM 88220 | |

Location of Release Source

Latitude 32.03579

Longitude -103.89955 (NAD 83 in decimal degrees to 5 decimal places)

| Site Name: RDX FEDERAL COM 17 #026H | Site Type: Oil Production Site |
|--|-----------------------------------|
| Date Release Discovered: December 7 th , 2021 | API# (if applicable) 30-015-42752 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| 0 | 17 | 26S | 30E | Eddy |

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| Crude Oil | Volume Released (bbls) 0 | Volume Recovered (bbls) 0 |
|------------------|--|---|
| Produced Water | Volume Released (bbls) 8 | Volume Recovered (bbls) 0 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | Yes No |
| Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release: Line from separator to PW tanks developed leak, allowing for release of approx. 8 bbls produced water to pad surface.

Spill sqft. x (1 cubic yard/27 cubic feet) x (porosity) x (6.41187384 bbls fluid/1 cubic yard) = approximately 8 bbls released fluids.

| Page | 2 |
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Oil Conservation Division

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| Was this a major release as defined by 19.15.29.7(A) NMAC? | If YES, for what reason(s) does the responsible party consider this a major release? |
|--|--|
| 🗌 Yes 🖾 No | |
| If YES, was immediate no | otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc) |

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \square The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

| Printed Name: | James Raley | Title: Environmental Specialist |
|---------------|---------------|---|
| | fin Roby | Date:12/10/2021 Telephone:575-689-7597 |
| OCD Only | | |
| Received by: | Ramona Marcus | Date: 12/13/2021 |

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: |
|---------------------------|---|
| WPX Energy Permian, LLC | 246289 |
| Devon Energy - Regulatory | Action Number: |
| Oklahoma City, OK 73102 | 66312 |
| | Action Type: |
| | [C-141] Release Corrective Action (C-141) |
| CONDITIONS | |

Created By Condition None rmarcus

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CONDITIONS

Action 66312

Condition Date 12/13/2021

Incident IDNAPP2134444397District RPFacility IDApplication IDIncident ID

Site Assessment/Characterization

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

| | 1 |
|---|-------------------------|
| What is the shallowest depth to groundwater beneath the area affected by the release? | <u>>100</u> (ft bgs) |
| Did this release impact groundwater or surface water? | 🗌 Yes 🔽 No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | 🗌 Yes 🔽 No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | 🗌 Yes 🔽 No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | 🗌 Yes 🔽 No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | 🗌 Yes 🔽 No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | 🗌 Yes 🔽 No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | 🗌 Yes 🔽 No |
| Are the lateral extents of the release within 300 feet of a wetland? | 🗌 Yes 🔽 No |
| Are the lateral extents of the release overlying a subsurface mine? | 🗌 Yes 🔽 No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | 🗌 Yes 🔽 No |
| Are the lateral extents of the release within a 100-year floodplain? | 🗌 Yes 🔽 No |
| Did the release impact areas not on an exploration, development, production, or storage site? | 🗌 Yes 🗹 No |

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
 Field data
- $\overline{\mathbf{\nabla}}$ Data table of soil contaminant concentration data
- \checkmark Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- \checkmark Boring or excavation logs
- ✓ Photographs including date and GIS information
- Topographic/Aerial maps
- \square Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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| | 22 11:00:09 AM State of New N | laviaa | | Page 6 of 1 |
|--|----------------------------------|---|--|---|
| | | | Incident ID | NAPP2134444397 |
| Page 4 | Oil Conservation | Division | District RP | |
| | | | Facility ID | |
| | | | Application ID | |
| regulations all operators are public health or the environ failed to adequately investig | | n release notifications and perform eport by the OCD does not relieve nat pose a threat to groundwater, s le operator of responsibility for co Title: Environ | m corrective actions for rel e the operator of liability sl surface water, human healt | eases which may endanger hould their operations have h or the environment. In ederal, state, or local laws |
| Signature: email: jim.raley@dvr | | Date: <u>3/4/202</u> Telephone: <u>575</u> | | |

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Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) \checkmark Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Title: Environmental Professional Printed Name: Jim Raley Signature: Telephone: 575-689-7597 _{email:} jim.raley@dvn.com **OCD Only** Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: ________ *Jennifer Nobui*______ Date: ______ Date: ______ D5/04/2022 Printed Name: Jennifer Nobui Title: Environmental Specialist A

WSP USA

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

March 4, 2022

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

RE: Closure Request RDX Federal Com 17 #026H Incident Number nAPP2134444397 Eddy County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP), on behalf of WPX Energy Permian, LLC. (WPX), presents the following Closure Request detailing site assessment, excavation, and soil sampling activities at the RDX Federal Com 17 #026H (Site) located in Unit O, Section 17, Township 26 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, delineation soil sampling, and excavation activities was to address impacts to soil following a release of produced water at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, WPX is submitting this Closure Request, describing remediation that has occurred and requesting no further action (NFA) for Incident Number nAPP2134444397.

RELEASE BACKGROUND

On December 7, 2021, a line from the separator to the produced water tanks developed a leak, resulting in the release of approximately 8 barrels (bbls) of produced water onto the surface of the well pad. No fluids were able to be successfully recovered. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) and submitted a Release Notification Form C-141 on December 10, 2021. The release was assigned Incident Number nAPP2134444397.

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 greater than 100 feet bgs based on soil boring, MW-1, associated with RDX 17-3, that was drilled by Talon LPE on December 8, 2020. The soil boring is located approximately 0.28 miles east of the Site. Using a truck mounted drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of approximately 107 feet bgs. Groundwater was not observed within the soil boring after at least 72 hours. Following the observation period, the boring was plugged and abandoned. The boring log is included as Attachment 1.

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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.

WATER COURSE SURVEY

On January 19, 2022, WSP personnel conducted a field investigation to confirm the presence of a potential significant watercourse identified in a desktop survey using the United States Fish and Wildlife Service (USFWS) online database, National Wetland Inventory (Wetland Mapper). Wetland Mapper is often used for initial evaluation of significant watercourses in response to reportable releases as required in the site characterization defined in 19.15.29.11.A(4) NMAC.

Field verification is sometimes necessary to measure the distance of the feature from the release extent and to confirm the feature modeled by the USFWS complies with the definition of a



NMAC. Specifically, the definition in Subsection P of

19.15.17.7 NMAC requires a defined bed and bank and either named or identified bv а dashed blue line on United States Geological Survey (USGS) 7.5-minute quadrangle map or the next lower order tributary with a defined bed and



Mapper. (Green pin) location where conduit splays out.

bank of such watercourse. Prior to the field investigation, WSP determined the surface feature did not present the preliminary requirements cognate to the anterior definition of a significant watercourse such that it was not identified by a dashed blue line on the current USGS 7.5-minute guadrangle map and did not reveal aerial properties of a next lower tributary that connect to a significant watercourse.

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Survey Photo 1: Erosional rut in Northeasterly area.

During the visual field survey of the watercourse, erosional paths or swales and ruts aligned with the topographic gradient

identified were at the of the Northeasterly start where riverine highest elevations located; were however, these features appear to be from erosional events from heavy rain falls and not from a running or intermittent stream feature. The distinct erosional features decreased drastically in depth and size following the conduit Southeast where it eventually splayed out (Survey

Photo 1 and survey Photo 2). The conduit did not appear to connect to a larger watercourse. The features furthest to the Southeast did not have a bed or bank, there was no evidence of



fluvial deposition inside the erosional features, and they did not connect to other watercourses, instead splaying out onto the desert floor. More detailed results and photographic evidence are provided in Diagram 2 and Survey Photo 2. The closest feature with a defined bed and bank appears to be approximately 1,265 feet west of the Site.

Based on the observations presented, there are no significant watercourses located within 300 feet of the release extent per the definition of a significant watercourse in Subsection P of 19.15.17.7 NMAC. Instead, an erosional channel has formed by drainage of water during storm events. The conduit is intercepted by an access road and ultimately splays out along the desert floor without connecting to any other features. The survey tract associated with the conduit and photos is presented on Figure 2.

CLOSURE CRITERIA

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

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



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Chloride: 20,000 mg/kg

EXCAVATION SOIL SAMPLING ACTIVITIES

Between December 16, 2021, and January 13, 2022, WSP personnel oversaw excavation activities at the Site as indicated by visual observations and descriptions provided in the C-141 form. Excavation activities were completed to address impacted soil within the release extent. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a photo-ionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively.

Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the excavations. The 5-point composite samples were collected by depositing five aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS08 were collected from the floor of the excavations at depths ranging from 0.5 feet to 0.75 feet bgs. Due to the shallow depth of the excavation, the soil samples represented the floors and sidewalls of the excavations. The excavation soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-ORO following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Final laboratory analytical results for excavation soil samples FS01 through FS08, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO, TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. The soil sample analytical results are summarized in Table 1 and laboratory analytical reports are included in Attachment 3.

The excavation and excavation soil sample locations are depicted on Figure 2. Photographic documentation was conducted during the Site visit. A photographic log is included in Attachment 2. The excavation measured approximately 1,294 square feet in area and was completed to a depth ranging from 0.5 to 0.75 feet bgs. Approximately 24 cubic yards of soil was removed and properly disposed of at the R360 Facility located in Hobbs, New Mexico under WPX approved manifests.

DELINEATION SOIL SAMPLING ACTIVITIES

On January 13, 2022, WSP personnel returned to the Site to oversee delineation activities. Four potholes (PH01 through PH04) were advanced via track mounted backhoe around the release extent and surrounding the production equipment to confirm the lateral and vertical extent of impacted soil. Potholes PH01 through PH04 were advanced to a depth of 1-foot bgs. Discrete were collected from each pothole at depths of 0.5-foot bgs and 1-foot bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in

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Attachment 3. The delineation soil samples were handled and analyzed as described above. The pothole delineation soil sample locations are depicted on Figure 3.

LABORATORY ANALYTICAL RESULTS

Final laboratory analytical results for excavation soil samples FS01 through FS08, collected from the final excavation extent, indicated benzene, BTEX, TPH-GRO, TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH04, collected outside of the release extent and surrounding production equipment, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. In addition, the delineation potholes collected at both depths provided lateral delineation of the release to the strictest Table 1 Closure Criteria.

The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the December 7, 2021, release of produced water. Based on visual observations and information from the C-141 form, remediation appeared warranted. Approximately 24 cubic yards of soil were excavated from the Site and laboratory analytical results for the excavation soil samples indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. In addition, delineation pothole samples collected at 0.5 and 1-foot bgs provide lateral delineation of the release to the strictest Table 1 Closure Criteria. Based on the soil sample analytical results, no further remediation was required.

Remediation response through the excavation of impacted soil, have mitigated impacts at this Site. Based on these efforts, soil sample laboratory analytical results compliant with the Closure Criteria and confirmed depth to groundwater greater than 100 feet bgs, WPX respectfully requests NFA and Closure of Incident Number nAPP2134444397.

If you have any questions or comments, please do not hesitate to contact Mr. Daniel R. Moir at (303) 887-2946.

Received by OCD: 3/31/2022 11:00:09 AM

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Sincerely,

WSP USA Inc.

obenner

Payton Benner Assistant Consultant, Geologist

Daniel R. Moir, P.G. Sr. Lead Consultant, Geologist

cc: Jim Raley, Devon Energy Corporation Bureau of Land Management

Attachments:

- Figure 1 Site Location Map
- Figure 2 Water Course Survey Map
- Figure 3 Excavation Soil Sample Locations
- Figure 4 Delineation Soil Sample Locations
- Table 1Soil Analytical Results
- Attachment 1 Referenced Well Record
- Attachment 2 Photographic Log
- Attachment 3 Lithologic/Soil Sampling Logs
- Attachment 4 Laboratory Analytical Reports

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Released to Imaging: 5/4/2022 11:52:07 AM



Released to Imaging: 5/4/2022 11:52:07 AM





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Table 1

Soil Analytical Results RDX Federal Com 17 #026H Incident Number nAPP2134444397 Eddy County, New Mexico

| Sample ID | Sample Date | Sample Depth (ft bgs) | Benzene (mg/kg) | BTEX (mg/kg) | TPH-DRO (mg/kg) | TPH-GRO (mg/kg) | TPH-ORO (mg/kg) | Total GRO+DRO (mg/kg) | TPH (mg/kg) | Chloride (mg/kg) |
|----------------------|---------------------|--------------------------|--------------------|-----------------|--------------------|--------------------|--------------------|-----------------------------|----------------|---------------------|
| NMOCD Table 1 Cl | osure Criteria (NMA | AC 19.15.29) | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| Excavation Floor Sa | mples | | | | | | | | | |
| FS01 | 12/16/2021 | 0.5 | < 0.00201 | < 0.00402 | 126 | <49.9 | <49.9 | 126 | 126 | 14,300 |
| FS02 | 12/16/2021 | 0.5 | < 0.00202 | < 0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 24,800 |
| FS02A | 01/13/2022 | 0.75 | < 0.00199 | < 0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 1,830 |
| FS03 | 12/16/2021 | 0.5 | < 0.00200 | < 0.00399 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 14,500 |
| FS04 | 12/16/2021 | 0.5 | < 0.00199 | < 0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 6,560 |
| FS05 | 12/16/2021 | 0.5 | < 0.00199 | < 0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 12,300 |
| FS06 | 12/16/2021 | 0.5 | < 0.00200 | < 0.00400 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 6,200 |
| FS07 | 12/16/2021 | 0.5 | < 0.00200 | < 0.00399 | 76.6 | <50.0 | <50.0 | 76.6 | 76.6 | 9,420 |
| FS08 | 12/16/2021 | 0.5 | < 0.00200 | < 0.00400 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 5,550 |
| Delineation Soil Sam | ples | | | | • • | • • | | | | |
| PH01 | 01/13/2022 | 0.5 | < 0.00199 | < 0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 95.7 |
| PH01A | 01/13/2022 | 1 | < 0.00199 | < 0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 80 |
| PH02 | 01/13/2022 | 0.5 | < 0.00198 | < 0.00397 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 240 |
| PH02A | 01/13/2022 | 1 | < 0.00199 | < 0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 158 |
| PH03 | 01/13/2022 | 0.5 | < 0.00201 | < 0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 119 |
| PH03A | 01/13/2022 | 1 | < 0.00200 | < 0.00399 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 146 |
| PH04 | 01/13/2022 | 0.5 | < 0.00200 | < 0.00400 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 166 |
| PH04A | 01/13/2022 | 1 | < 0.00199 | < 0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 317 |

Notes:

ft - feet/foot mg/kg - milligrams per kilograms BTEX - benzene, toluene, ethylbenzene, and total xylenes TPH - total petroleum hydrocarbons DRO - diesel range organics

GRO - gasoline range organics

ORO - oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard Greyed data represents samples that were excavated

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| | | HR | | | | | | | MONITORING W | ELL COMPLETION | N DIAGRAM | | |
|------------------------|------------------|-----------------|------------|--------------------|------------|---------------------|------------|--------------------------|----------------------|--|-------------------------|--|--|
| | | | | IAN | C F | | Boring/We | | W-1 | Location: RDX 17 | #3 | | |
| Ĩ | | S O | נטו | | NS | | Date: | | | Client: | | | |
| Drilling M | othod | | Sampling N | | | | Logged By | | 3/2020 | WPX En | ergy | | |
| - | Air Rotai | y | Sampning r | | one | | Logged By | | nn, PG | Talon L | LPE | | |
| Gravel Pac | k Type: | | Gravel Pac | k Depth Inte | | | Seal Type: | | Seal Depth Interval: | Latitude: | | | |
| Casing Typ | 0/20 Sar | 1d Diameter: | | 3 B Depth Inter | ags | | | lone al Depth (ft. BC | None | 32.0367 Longitude: | 65 | | |
| PVC | | 2-inch | | 0-102 fe | eet bgs | | | 1(| 07 | -103.895 | | | |
| Screen Typ PVC | be: | Slot: | u a lu | Diameter: | | Interval: 107 ft | Well Total | Depth (ft. BGS | · | Depth to Water (ft. BTOC): > 107 | DTW Date: 12/16/2020 | | |
| | | 0.010-ii | | 2-inch | | | | | 07 I | >107 | 12/16/2020 | | |
| Depth Interval (ft) | Recovery (ft) | Plasticity | Moisture | Odor | Staining | PID (ppm) | USCS | Sample ID | Litholog | Lithology/Remarks | | | |
| 0 | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| 10 | NM | L | D | Ν | Ν | NM | SP | NS | Dala aranga poor | | | | |
| 15 | | L | | IN | IN | | Sr | IND | Fale orange poor | ly graded fine sand · | | | |
| 20 | | | | | | | | | | | | | |
| 25 | 1 | | | | | | | | | | | | |
| 30 | NM | L | D | N | N | NM | SP | NS | Same as above wi | th slight increase in | | | |
| 35 | | L | | N | IN | NM | Sr | IND | coarse san | d and gravel | | | |
| 40 | | | | | | | | | D.I. | | | | |
| 45 | NM | L | D | Ν | Ν | NM | SP | NS | | ly graded fine sand y slight silt | | | |
| 50 | | | | | | | | | with ver | y slight sht | | | |
| 55 | NM | L | D | N | Ν | NM | SP | NS | Pale orange poor | ly graded fine sand | | | |
| 60 | NM | L | D | N | Ν | NM | SW | NS | Pale orange wel | l graded fine sand | | | |
| 65 | | | | | | | | | | | | | |
| 70 |] | | | | | | | | | · · · · · · | | | |
| 75 | NM | М | SL M | Ν | Ν | NM | SM | NS | - | layey silty fine sand se sand and gravel | | | |
| 80 |] | | | | | | | | | | | | |
| 85 | 1 | | | | | | | | | - | | | |
| 90 | | | | | | | | | | | | | |
| 95 | | ₇ | | лт I | Ъ Т | | | NO | Pale orange poorl | ly sorted fine sand - | | | |
| 100 | NM | L | SL M | N | Ν | NM | SP | NS | |)7' BGS | † | | |
| 105 | 1 | | | | | | | | | | | | |

Received by OCD: 3/31/2022 11:00:09 AM

Released to Imaging: 5/4/2022 11:52:07 AM

wsp

| PHOTOGRAPHIC LOG | | | | | | | |
|------------------|--------------------------|----------------|--|--|--|--|--|
| WPX ENERGY | RDX FEDERAL COM 17 #026H | NAPP2134444397 | | | | | |
| PERMIAN, LLC | Eddy County, New Mexico | | | | | | |
| | | | | | | | |





Received by OCD: 3/31/2022 11:00:09 AM

Released to Imaging: 5/4/2022 11:52:07 AM

| NS | | BH or PH Name: PH01 Site Name: RDX FEDERAL COM | 1 17 #026H | | | | |
|--|----------------------------------|---|---|-------------------------|--|--|--|
| | Carlsbad, New Mex | co 88220 | RP or Incident Number: nAPP2134444397 | | | | |
| | DLOGIC / SOIL SAMPLING I | 06 | WSP Job Number: 31403360.040 Logged By: AB Method: | | | | |
| Lat/Long: 32.03579, -103.89 | | | Hole Diameter: | Total Depth: | | | |
| | | N/A | 1' | | | | |
| Comments: M-moist; D-dry; Y-yes; N-no | ; SAA-same as above | | | | | | |
| Moisture Content Chloride (ppm) Vapor (ppm) | Sample Depth S (ft bgs) | USCS/Rock Symbol | Lithology/F | Remarks | | | |
| D 160 0 D 108 0 | N PH01 0.5 0.5 N PH01A 1 1 | CCHE CALIC | HE, OFF-WHITE, COARSE | GRAIN, NO STAIN NO ODOR | | | |
| | | | | | | | |
| | | TO | TAL DEPTH @ 1 FT BGS | | | | |
| | | | | | | | |

| 115 | | N | ISP USA | В | H or PH Name: PH02 | | | | | |
|-----------------------------------|-------------------|---|---------------|---------------------|--------------------|----------------------------------|----------|--|--|--|
| | | 508 Wes | t Stevens S | treet | S | ite Name: RDX FEDER/ | AL COM 1 | 7 #026H | | |
| | | Carlsbad, N | lew Mexico | 88220 | | P or Incident Number: n | | | | |
| | | | | | W | WSP Job Number: 31403360.040 | | | | |
| l | LITHOLO | GIC / SOIL SAMI | LING LOO | G | Lo | Logged By: AB Method: | | | | |
| Lat/Long: 32.03579, | Field Scr | eening: CI- ar | | lole Diameter: | - | Total Depth: | | | | |
| 0 | | | | N | I/A | | 1' | | | |
| Comments: M-moist; D-dry; Y-ye | es; N-no; SAA | -same as above | | | | | | | | |
| 2 - 0 | (ppm) Staining | ້ <u>ຍ</u> Sample du Depth ອິດ (ft bgs) | bgs) | USCS/Rock Symbol | | Litho | ology/Re | emarks | | |
| | 0 N 0 N | PH02 0.5 PH02A 1 | 0 0.5 1 | SP-SM SP-SM | COHESIV | ROWN, POORLY G ENESS, ABUNDAN | GRADED | D, WELL SORTED, NO , NO STAIN NO ODOR | | |
| | | | + | | | | | | | |
| | I I | | | | TOTAL | DEPTH @ 1 FT B | 3GS | | | |
| | | | | | | | | | | |

| 1 | WSP USA | | | | | | | | BH or PH Name: PH03 | | | | |
|---------------------|--|----------------|--------------|--------------|-----------------------------|------------|---------------------|--------|---------------------------------------|-----------|--------------------|--|--|
| | | | | | 508 West | Stevens St | treet | | Site Name: RDX FEDER | RAL COM 1 | 7 #026H | | |
| | | | | Ca | rlsbad, Ne | ew Mexico | 88220 | | RP or Incident Number: nAPP2134444397 | | | | |
| | | | | | | | | | WSP Job Number: 31403360.040 | | | | |
| | | | | GIC / SOI | | | | | Logged By: AB | | Method: | | |
| Lat/Lo | at/Long: 32.03579, -103.89955 Field Screening: CI- and PID | | | | | | | | Hole Diameter: N/A | | Total Depth: | | |
| Comments: | | | | | | | | | N/A | | 1' | | |
| | | Y-yes; N-r | no; SAA | A-same as ab | ove | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | bgs) | USCS/Rock Symbol | | Lith | nology/Re | emarks | | |
| D | | | Ν | | | 0 | | | | | | | |
| D | 200 | 0 | Ν | PH03 | 0.5 | 0.5 | SP-SM | SAND F | | GRADEC | , WELL SORTED, NO | | |
| | 200 | 0 | I N | 1100 | 0.0 | 0.0 | 01-01/1 | COHESI | VENESS, ABUNDA | NT SILT | , NO STAIN NO ODOR | | |
| D | 220 | 0 | Ν | PH03A | 1 | 1 | SP-SM | | | | - | | |
| | | | | | - | Ļ | | | | | | | |
| | l | | | | l | | l | TOT | AL DEPTH @ 1 FT I | BGS | | | |
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| | \mathbf{i} | | | | | | | | | | | | |
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| NS | | | SP USA | BH or PH Name: PH04 | | | | | | |
|--|----------------------|-----------------------------|------------------------|---------------------|------------------------|---|--|--|--|--|
| | | 508 West 3 | Stevens St w Mexico | treet | Site Name: RDX FEDEI | | | | | |
| | Ca | nsbau, Ne | | 00220 | | RP or Incident Number: nAPP2134444397 WSP Job Number: 31403360.040 | | | | |
| | IOLOGIC / SOI | | | 2 | | Logged By: AB Method: | | | | |
| Lat/Long: 32.03579, -103. | | | ening: CI- an | Hole Diameter: | Total Depth: | | | | | |
| Laveong. 52.03573, -103. | 03333 | | ennig. OF an | N/A | 1' | | | | | |
| Comments: | _ | 1 | | | l | I | | | | |
| M-moist; D-dry; Y-yes; N-r | no; SAA-same as at | ove | | | | | | | | |
| Moisture Content Chloride (ppm) Vapor (ppm) | Staining Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lith | nology/Remarks | | | | |
| D | Ν | | 0 | | | | | | | |
| D 252 0 | N PH04 | 0.5 | 0.5 | CCHE | CALICHE, OFF-WHITE, CC | DARSE GRAIN, NO STAIN NO ODOR | | | | |
| D 252 0 | N PH04A | 1 | 1 | CCHE | SAA | | | | | |
| | | | | | | 200 | | | | |
| | | | | | TOTAL DEPTH @ 1 FT | BGS | | | | |
| | | | | | | | | | | |

Received by OCD: 3/31/2022 11:00:09 AM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1743-1

Laboratory Sample Delivery Group: 1061112901 Client Project/Site: RDX 17-26

For:

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

Attn: Joseph Hernandez

RAMER

Authorized for release by: 12/28/2021 8:21:21 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.

Have a Question? Ask The Expert Visit us at: www.eurofinsus.com/Env

LINKS

Review your project results through

Total Access

Released to Imaging: 5/4/2022 11:52:07 AM

SDG: 1061112901

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| Client: WSP US | Job ID: 890-1743- Job ID: 890-1743- | 1 |
|------------------|--|---|
| Project/Site: RI | | |
| Qualifiers | | |
| GC VOA | | |
| Qualifier | Qualifier Description | |
| F1 | MS and/or MSD recovery exceeds control limits. | |
| F2 | MS/MSD RPD exceeds control limits | |
| S1+ | Surrogate recovery exceeds control limits, high biased. | |
| U | Indicates the analyte was analyzed for but not detected. | |
| GC Semi VOA | | |
| Qualifier | Qualifier Description | |
| U | Indicates the analyte was analyzed for but not detected. | - |
| HPLC/IC | | |
| Qualifier | Qualifier Description | |
| U | Indicates the analyte was analyzed for but not detected. | - |
| - | ······································ | _ |
| Glossary | | - |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | _ |
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis | |
| %R | Percent Recovery | |
| CFL | Contains Free Liquid | |
| CFU | Colony Forming Unit | |
| CNF | Contains No Free Liquid | |
| DER | Duplicate Error Ratio (normalized absolute difference) | |
| Dil Fac | Dilution Factor | |
| DL | Detection Limit (DoD/DOE) | |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample | |
| DLC | Decision Level Concentration (Radiochemistry) | |
| EDL | Estimated Detection Limit (Dioxin) | |
| LOD | Limit of Detection (DoD/DOE) | |
| LOQ | Limit of Quantitation (DoD/DOE) | |
| MCL | EPA recommended "Maximum Contaminant Level" | |
| MDA | Minimum Detectable Activity (Radiochemistry) | |
| MDC | Minimum Detectable Concentration (Radiochemistry) | |
| MDL | Method Detection Limit | |
| ML | Minimum Level (Dioxin) | |
| MPN | Most Probable Number | |
| MQL | Method Quantitation Limit | |
| NC | Not Calculated | |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) | |
| NEG | Negative / Absent | |
| POS | Positive / Present | |
| PQL | Practical Quantitation Limit | |
| PRES | Presumptive | |
| QC | Quality Control | |
| RER | Relative Error Ratio (Radiochemistry) | |
| RL | Reporting Limit or Requested Limit (Radiochemistry) | |
| RPD | Relative Percent Difference, a measure of the relative difference between two points Toxicity Equivalent Factor (Dioxin) | |
| | | |
| TEF TEQ | Toxicity Equivalent Quotient (Dioxin) | |

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4

5

Job ID: 890-1743-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1743-1

Receipt

The samples were received on 12/20/2021 4:59 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 3.6°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15326 and analytical batch 880-15375 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

HPLC/IC

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

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

RL

MDL Unit

D

Prepared

Dil Fac

Job ID: 890-1743-1 SDG: 1061112901

Client Sample ID: FS01

Date Collected: 12/16/21 11:45 Date Received: 12/20/21 16:59

Sample Depth: 0.5

Analyte

Client: WSP USA Inc.

Project/Site: RDX 17-26

Lab Sample ID: 890-1743-1

Analyzed

Matrix: Solid

5

| Analyte | Result | Quanner | | | Unit | | riepareu | Analyzeu | Dirrac |
|---|---------------|-----------|----------|-----|-------|---|----------------|----------------|----------|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 19:24 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 19:24 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 19:24 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 19:24 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 19:24 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 19:24 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 121 | | 70 - 130 | | | | 12/22/21 10:02 | 12/22/21 19:24 | 1 |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 | | | | 12/22/21 10:02 | 12/22/21 19:24 | 1 |
| Method: Total BTEX - Total BTEX | (Calculation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 12/28/21 08:41 | 1 |
| Method: 8015 NM - Diesel Range | Organics (DR | O) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | 126 | | 49.9 | | mg/Kg | | | 12/28/21 17:22 | 1 |
| Method: 8015B NM - Diesel Rang | e Organics (D | RO) (GC) | | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 12:17 | 1 |
| Diesel Range Organics (Over C10-C28) | 126 | | 49.9 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 12:17 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 12:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 99 | | 70 - 130 | | | | 12/22/21 09:41 | 12/22/21 12:17 | 1 |
| o-Terphenyl | 97 | | 70 - 130 | | | | 12/22/21 09:41 | 12/22/21 12:17 | 1 |
| Method: 300.0 - Anions, Ion Chro | omatography - | Soluble | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 14300 | | 99.0 | | mg/Kg | | | 12/22/21 12:20 | 20 |
| Client Sample ID: FS02 | | | | | | | Lab Sar | nple ID: 890- | 1743-2 |
| ate Collected: 12/16/21 11:48 | | | | | | | | Matri | x: Solid |
| ate Received: 12/20/21 16:59 | | | | | | | | | |
| ample Depth: 0.5 | | | | | | | | | |
| Method: 8021B - Volatile Organic | c Compounds (| (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00202 | 11 | 0.00202 | | ma/Ka | | 12/22/21 10:02 | 12/22/21 10:44 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 19:44 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 19:44 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 19:44 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 19:44 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 19:44 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 19:44 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 132 | S1+ | 70 - 130 | | | | 12/22/21 10:02 | 12/22/21 19:44 | 1 |

Eurofins Xenco, Carlsbad

Client Sample Results

Job ID: 890-1743-1 SDG: 1061112901

Lab Sample ID: 890-1743-2

Matrix: Solid

5

Date Collected: 12/16/21 11:48 Date Received: 12/20/21 16:59

Client Sample ID: FS02

| Samp | le Depth: | 0.5 |
|------|-----------|-----|
| | | |

Client: WSP USA Inc.

Project/Site: RDX 17-26

| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fa |
|---|----------------|-----------|----------|-----|-------|---|----------------|----------------|----------|
| 1,4-Difluorobenzene (Surr) | 90 | | 70 - 130 | | | | 12/22/21 10:02 | 12/22/21 19:44 | |
| Method: Total BTEX - Total BTEX | Calculation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| Total BTEX | <0.00404 | U | 0.00404 | | mg/Kg | | | 12/28/21 08:41 | |
| Method: 8015 NM - Diesel Range | Organics (DR | D) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/28/21 17:22 | |
| Method: 8015B NM - Diesel Rang | e Organics (DI | RO) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 13:19 | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 13:19 | |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 13:19 | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fa |
| 1-Chlorooctane | 101 | | 70 - 130 | | | | 12/22/21 09:41 | 12/22/21 13:19 | |
| o-Terphenyl | 101 | | 70 - 130 | | | | 12/22/21 09:41 | 12/22/21 13:19 | |
| Method: 300.0 - Anions, Ion Chro | matography - | Soluble | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| Chloride | 24800 | | 251 | | mg/Kg | | | 12/22/21 12:30 | 50 |
| Client Sample ID: FS03 | | | | | | | Lab San | nple ID: 890- | 1743-3 |
| ate Collected: 12/16/21 11:50 | | | | | | | | Matri | x: Solic |
| ate Received: 12/20/21 16:59 | | | | | | | | | |
| ample Depth: 0.5 | | | | | | | | | |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|------------------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 21:34 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 21:34 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 21:34 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 21:34 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 21:34 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 21:34 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 123 | | 70 - 130 | | | | 12/22/21 10:02 | 12/22/21 21:34 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | | | | 12/22/21 10:02 | 12/22/21 21:34 | 1 |
| Method: Total BTEX - Total B | FEX Calculation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 12/28/21 08:41 | 1 |
| - Method: 8015 NM - Diesel Rar | nge Organics (DR | O) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Analyte | | | | | | | | | |

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Released to Imaging: 5/4/2022 11:52:07 AM
Client Sample Results

| Job ID: 890-1743-1 |
|--------------------|
| SDG: 1061112901 |

Matrix: Solid

Lab Sample ID: 890-1743-3

Client Sample ID: FS03

Date Collected: 12/16/21 11:50 Date Received: 12/20/21 16:59

Sample Depth: 0.5

Client: WSP USA Inc. Project/Site: RDX 17-26

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 13:40 | 1 |
| Diesel Range Organics (Over | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 13:40 | 1 |
| C10-C28) | | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 13:40 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 99 | | 70 - 130 | | | | 12/22/21 09:41 | 12/22/21 13:40 | 1 |
| o-Terphenyl | 97 | | 70 _ 130 | | | | 12/22/21 09:41 | 12/22/21 13:40 | 1 |

| Method: 300.0 - Anions, ion Chron | latography - Soluble | | | | | | |
|-----------------------------------|----------------------|------|----------|---|----------|----------------|---------|
| Analyte | Result Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 14500 | 99.6 | mg/Kg | | | 12/22/21 12:40 | 20 |

Client Sample ID: FS04

Date Collected: 12/16/21 11:54 Date Received: 12/20/21 16:59

Sample Depth: 0.5

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 21:54 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 21:54 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 21:54 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 21:54 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 21:54 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 21:54 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 129 | | 70 - 130 | | | | 12/22/21 10:02 | 12/22/21 21:54 | 1 |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | | | | 12/22/21 10:02 | 12/22/21 21:54 | 1 |
| Method: Total BTEX - Total BTEX | Calculation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/28/21 08:41 | 1 |
| Method: 8015 NM - Diesel Range | Organics (DR | O) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | , | 12/28/21 17:22 | 1 |
| Method: 8015B NM - Diesel Rang | je Organics (D | RO) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 16:45 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 16:45 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 16:45 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| | | | | | | | | | |
| 1-Chlorooctane | 103 | | 70 - 130 | | | | 12/22/21 09:41 | 12/22/21 16:45 | 1 |

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| | | Clien | t Sample R | lesults | ; | | | | |
|---|-------------------------|----------------------|----------------------|---------|-------|---|----------------------------|----------------------------|----------|
| Client: WSP USA Inc. | | | | | | | | Job ID: 890 | -1743-1 |
| Project/Site: RDX 17-26 | | | | | | | | SDG: 106 | 1112901 |
| Client Sample ID: FS04 | | | | | | | Lab San | nple ID: 890- | 1743-4 |
| Date Collected: 12/16/21 11:54 | | | | | | | | | x: Solid |
| Date Received: 12/20/21 16:59 | | | | | | | | | |
| Sample Depth: 0.5 | | | | | | | | | |
| | | | | | | | | | |
| Method: 300.0 - Anions, Ion Chr Analyte | | Soluble Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | | Quaimer | 49.9 | MDL | mg/Kg | | Frepareu | 12/22/21 12:50 | 10 |
| _ | | | | | | | | | 4740 5 |
| Client Sample ID: FS05 | | | | | | | Lab San | nple ID: 890- | |
| Date Collected: 12/16/21 11:57 | | | | | | | | Matri | x: Solid |
| Date Received: 12/20/21 16:59 | | | | | | | | | |
| Sample Depth: 0.5 | | | | | | | | | |
| Method: 8021B - Volatile Organi | ic Compounds (| GC) | | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 22:15 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 22:15 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 22:15 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 22:15 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 22:15 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 22:15 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | <u>%Recovery</u> 80 | Quaimer | 70 - 130 | | | | 12/22/21 10:02 | 12/22/21 22:15 | 1 |
| 1,4-Difluorobenzene (Surr) | 83 | | 70 - 130 70 - 130 | | | | 12/22/21 10:02 | 12/22/21 22:15 | 1 |
| | 00 | | 10-100 | | | | 12/22/21 10:02 | 12/22/21 22:10 | , |
| Method: Total BTEX - Total BTE | X Calculation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/28/21 08:41 | 1 |
| - Method: 2015 NM Dissel Bang | o Organico (DB | | | | | | | | |
| Method: 8015 NM - Diesel Rang Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.9 | | 49.9 | | mg/Kg | | | 12/28/21 17:22 | 1 |
| — · · · · | | | | | 5 5 | | | | |
| Method: 8015B NM - Diesel Ran | ge Organics (D | RO) (GC) | | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 17:05 | 1 |
| (GRO)-C6-C10 Discol Banga Organias (Over | -10.0 | | 40.0 | | malka | | 12/22/24 00:44 | 10/00/04 47.05 | 4 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 17:05 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 17:05 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Proparad | Analyzod | Dil Eco |
| Surrogate 1-Chlorooctane | <u>%Recovery</u> 102 | qualitier | | | | | Prepared 12/22/21 09:41 | Analyzed 12/22/21 17:05 | Dil Fac |
| | 99 | | 70 - 130 70 - 130 | | | | 12/22/21 09:41 | 12/22/21 17:05 | |
| o-Terphenyl | 99 | | 10 - 130 | | | | 12122121 09.41 | 1212212111.00 | 1 |
| Method: 300.0 - Anions, Ion Chi | romatography - | Soluble | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 12300 | | 100 | | mg/Kg | _ | | 12/22/21 13:19 | 20 |

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Job ID: 890-1743-1 SDG: 1061112901

Client Sample ID: FS06

Date Collected: 12/16/21 12:00 Date Received: 12/20/21 16:59

Client: WSP USA Inc.

Project/Site: RDX 17-26

Matrix: Solid

| Sample Depth: 0.5 | | | | | | | | | |
|---------------------------------------|--------------------|-----------|----------|-----|-------|---|----------------|----------------|----------|
| – Method: 8021B - Volatile Organio | c Compounds (| (GC) | | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 22:35 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 22:35 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 22:35 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 22:35 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 22:35 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 22:35 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 122 | | 70 - 130 | | | | 12/22/21 10:02 | 12/22/21 22:35 | 1 |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 | | | | 12/22/21 10:02 | 12/22/21 22:35 | 1 |
| Method: Total BTEX - Total BTEX | Calculation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 12/28/21 08:41 | 1 |
| - Method: 8015 NM - Diesel Range | organics (DR | O) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/28/21 17:22 | 1 |
| - Method: 8015B NM - Diesel Rang | ae Organics (D | RO) (GC) | | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 17:26 | 1 |
| (GRO)-C6-C10 | | | | | | | | | |
| Diesel Range Organics (Over | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 17:26 | 1 |
| C10-C28) | | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 17:26 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 102 | | 70 - 130 | | | | 12/22/21 09:41 | 12/22/21 17:26 | 1 |
| o-Terphenyl | 101 | | 70 - 130 | | | | 12/22/21 09:41 | 12/22/21 17:26 | 1 |
| Method: 300.0 - Anions, Ion Chro | omatography - | Soluble | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 6200 | | 49.8 | | mg/Kg | | | 12/22/21 13:29 | 10 |
| Client Sample ID: FS07 | | | | | | | Lab San | nple ID: 890- | 1743-7 |
| Date Collected: 12/16/21 12:03 | | | | | | | | Matri | x: Solid |
| Date Received: 12/20/21 16:59 | | | | | | | | | |
| Sample Depth: 0.5 | | | | | | | | | |
| - Method: 8021B - Volatile Organic | c Compounds (| (GC) | | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 22:56 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 22:56 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 22:56 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 22:56 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 22:56 | 1 |
| - | | | | | | | | | |

Xylenes, Total <0.00399 U 0.00399 12/22/21 10:02 12/22/21 22:56 mg/Kg 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 104 70 - 130 12/22/21 10:02 12/22/21 22:56 1

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Client Sample Results

Job ID: 890-1743-1 SDG: 1061112901

Lab Sample ID: 890-1743-7

Matrix: Solid

5

Date Collected: 12/16/21 12:03 Date Received: 12/20/21 16:59

Client Sample ID: FS07

Sample Depth: 0.5

Client: WSP USA Inc.

Project/Site: RDX 17-26

| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
|---|---------------|-----------|----------|-----|-------|---|----------------|----------------|----------|
| 1,4-Difluorobenzene (Surr) | 80 | | 70 - 130 | | | | 12/22/21 10:02 | 12/22/21 22:56 | 1 |
| Method: Total BTEX - Total BTEX | Calculation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 12/28/21 08:41 | 1 |
| Method: 8015 NM - Diesel Range | Organics (DR | 0) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | 76.6 | | 50.0 | | mg/Kg | | | 12/28/21 17:22 | 1 |
| Method: 8015B NM - Diesel Rang | e Organics (D | RO) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 18:07 | 1 |
| Diesel Range Organics (Over C10-C28) | 76.6 | | 50.0 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 18:07 | |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 18:07 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fa |
| 1-Chlorooctane | 104 | | 70 - 130 | | | | 12/22/21 09:41 | 12/22/21 18:07 | |
| o-Terphenyl | 100 | | 70 - 130 | | | | 12/22/21 09:41 | 12/22/21 18:07 | ŝ |
| Method: 300.0 - Anions, Ion Chro | matography - | Soluble | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 9420 | | 49.7 | | mg/Kg | | | 12/22/21 13:59 | 10 |
| lient Sample ID: FS08 | | | | | | | Lab San | nple ID: 890- | 1743-8 |
| ate Collected: 12/16/21 12:06 | | | | | | | | Matri | x: Solic |
| ate Received: 12/20/21 16:59 | | | | | | | | | |
| ample Depth: 0.5 | | | | | | | | | |
| Method: 8021B - Volatile Organic | Compounds (| GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | < 0.00200 | | 0.00200 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 23:16 | |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|------------------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 23:16 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 23:16 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 23:16 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 23:16 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 23:16 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 12/22/21 10:02 | 12/22/21 23:16 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 118 | | 70 - 130 | | | | 12/22/21 10:02 | 12/22/21 23:16 | 1 |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 | | | | 12/22/21 10:02 | 12/22/21 23:16 | 1 |
| - Method: Total BTEX - Total B | FEX Calculation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 12/28/21 08:41 | 1 |
| – Method: 8015 NM - Diesel Rar | nge Organics (DR | O) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/28/21 17:22 | 1 |
| - | | | | | | | | | |

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Client Sample Results

| | | Clien | t Sample R | esults | • | | | | |
|--|------------------------|----------------|------------|--------|---------------|----------|-------------------------|----------------------------|--------------------|
| lient: WSP USA Inc. roject/Site: RDX 17-26 | | | | | | | | Job ID: 890 SDG: 106 | |
| lient Sample ID: FS08 ate Collected: 12/16/21 12:06 | | | | | | | Lab Sar | nple ID: 890- Matri | 1743-8 x: Solid |
| ate Received: 12/20/21 16:59 ample Depth: 0.5 | | | | | | | | | |
| Method: 8015B NM - Diesel Ran | | | | MD | 11 | _ | Descende | Amelianad | |
| Analyte Gasoline Range Organics (GRO)-C6-C10 | Result <50.0 | Qualifier U | RL | | Unit mg/Kg | <u>D</u> | Prepared 12/22/21 09:41 | Analyzed 12/22/21 18:28 | Dil Fac 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 18:28 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 18:28 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 105 | | 70 - 130 | | | | 12/22/21 09:41 | 12/22/21 18:28 | 1 |
| p-Terphenyl | 103 | | 70 - 130 | | | | 12/22/21 09:41 | 12/22/21 18:28 | 1 |
| Method: 300.0 - Anions, Ion Chr | omatography - | Soluble | | | | | | | |
| weinou. 300.0 - Amons, ion chi | • • • | | | | | - | Durana | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |

Client: WSP USA Inc. Project/Site: RDX 17-26

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) | | |
| 880-9625-A-1-A MS | Matrix Spike | 142 S1+ | 114 | | |
| 880-9625-A-1-B MSD | Matrix Spike Duplicate | 113 | 88 | | |
| 890-1743-1 | FS01 | 121 | 97 | | - 5 |
| 890-1743-2 | FS02 | 132 S1+ | 90 | | |
| 390-1743-3 | FS03 | 123 | 95 | | |
| 390-1743-4 | FS04 | 129 | 94 | | |
| 390-1743-5 | FS05 | 80 | 83 | | |
| 390-1743-6 | FS06 | 122 | 93 | | |
| 390-1743-7 | FS07 | 104 | 80 | | |
| 390-1743-8 | FS08 | 118 | 93 | | |
| _CS 880-15326/1-A | Lab Control Sample | 110 | 96 | | |
| _CSD 880-15326/2-A | Lab Control Sample Dup | 122 | 100 | | |
| MB 880-15326/5-A | Method Blank | 120 | 96 | | |
| Surrogate Legend | | | | | |
| BFB = 4-Bromofluorobe | | | | | |
| DFBZ = 1,4-Difluoroben | zene (Surr) | | | | |

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

| Matrix: | Solid |
|---------|-------|
|---------|-------|

| | | | | Percent Surrogate Recovery (Acceptance Limits) |
|----------------|------------------|----------|----------|--|
| | | 1CO1 | OTPH1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 390-1743-1 | FS01 | 99 | 97 | |
| 890-1743-1 MS | FS01 | 92 | 87 | |
| 890-1743-1 MSD | FS01 | 103 | 101 | |
| 890-1743-2 | FS02 | 101 | 101 | |
| 890-1743-3 | FS03 | 99 | 97 | |
| 890-1743-4 | FS04 | 103 | 101 | |
| 890-1743-5 | FS05 | 102 | 99 | |
| 890-1743-6 | FS06 | 102 | 101 | |
| 890-1743-7 | FS07 | 104 | 100 | |
| 890-1743-8 | FS08 | 105 | 103 | |

Surrogate Legend 1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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

Matrix: Solid

| - | | | | Percent Surrogate Recovery (Acceptance Limits) |
|----------------------|------------------------|----------|----------|--|
| | | 1CO2 | OTPH2 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| LCS 880-15317/2-A | Lab Control Sample | 110 | 115 | |
| LCSD 880-15317/3-A | Lab Control Sample Dup | 119 | 114 | |
| MB 880-15317/1-A | Method Blank | 115 | 120 | |
| Surrogate Legend | | | | |
| 1CO = 1-Chlorooctane | | | | |
| OTPH = o-Terphenyl | | | | |

Prep Type: Total/NA

Prep Type: Total/NA

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

| Matrix: Solid | 6/5-A | | | | | | | | | | mple ID: Me Prep Typ | | |
|---|--|-----------|---|--|-------|----------------------------|---------------------------------|-------|-----------|---|--|---------------------------------------|--|
| Analysis Batch: 15375 | | | | | | | | | | | Prep Ba | | |
| Analysis Baton. Toore | ME | MB | | | | | | | | | | | |
| Analyte | Result | Qualifier | RL | | MDL | Unit | | D | Pre | pared | Analyzed | | Dil Fa |
| Benzene | <0.00200 | | 0.00200 | | | mg/Kg | | | | /21 10:02 | 12/22/21 16: | 1 | |
| Toluene | <0.00200 | | 0.00200 | | | mg/Kg | | 1 | 12/22/ | 21 10:02 | 12/22/21 16:" | 1 | |
| Ethylbenzene | <0.00200 | U | 0.00200 | | | mg/Kg | | 1 | 12/22/ | 21 10:02 | 12/22/21 16: | 1 | |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | | mg/Kg | | 1 | 12/22/ | 21 10:02 | 12/22/21 16: | 1 | |
| o-Xylene | <0.00200 | U | 0.00200 | | | mg/Kg | | 1 | 12/22/ | 21 10:02 | 12/22/21 16: | 1 | |
| Xylenes, Total | <0.00400 | U | 0.00400 | | | mg/Kg | | 1 | 12/22/ | 21 10:02 | 12/22/21 16: | 1 | |
| | ME | MB | | | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | Pre | epared | Analyzed | | Dil Fa |
| 4-Bromofluorobenzene (Surr) | 120 |) | 70 - 130 | | | | | 1 | 12/22/ | /21 10:02 | 12/22/21 16: | 11 | |
| 1,4-Difluorobenzene (Surr) | 96 | i | 70 - 130 | | | | | 1 | 12/22/ | /21 10:02 | 12/22/21 16: | 11 | |
| Lab Sample ID: LCS 880-1532 | 26/1-A | | | | | | | Clie | ent S | Sample | ID: Lab Cont | rol Sa | ampl |
| Matrix: Solid | | | | | | | | | | | Prep Typ | e: To | tal/N |
| Analysis Batch: 15375 | | | | | | | | | | | Prep Ba | tch: | 1532 |
| | | | Spike | LCS | LCS | | | | | | %Rec. | | |
| Analyte | | | Added | Result | Quali | fier U | Init | | D | %Rec | Limits | | |
| Benzene | | | 0.100 | 0.09590 | | m | ng/Kg | | | 96 | 70 ₋ 130 | | |
| Toluene | | | 0.100 | 0.09926 | | m | ng/Kg | | | 99 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.1004 | | m | ng/Kg | | | 100 | 70 - 130 | | |
| m-Xylene & p-Xylene | | | 0.200 | 0.1935 | | m | ng/Kg | | | 97 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.09323 | | r | ng/Kg | | | 93 | 70 - 130 | | |
| | 100.10 | e | | | | | | | | | | | |
| | LCS LC | | | | | | | | | | | | |
| | %Recovery Qu | alifier | Limits | | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | %Recovery Qu 110 | | 70 - 130 | | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-15 | %Recovery Qu 110 96 | | | | | | Cli | ent S | amp | ole ID: La | ab Control S Prep Typ | | |
| 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-15 Matrix: Solid | %Recovery Qu 110 96 | | 70 - 130 | | | | Cli | ent S | amp | ole ID: La | | e: To | tal/N |
| 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-15 Matrix: Solid | %Recovery Qu 110 96 | | 70 - 130 | LCSD | LCSD |) | Cli | ent S | amp | ble ID: La | Ргер Тур | e: To | tal/N. 1532 |
| 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-153 Matrix: Solid Analysis Batch: 15375 | %Recovery Qu 110 96 | | 70 - 130 70 - 130 | LCSD Result | | | Cli | ent S | Samp D | ble ID: La %Rec | Prep Typ Prep Ba %Rec. | e: To | tal/N 1532 RP |
| 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-153 Matrix: Solid Analysis Batch: 15375 Analyte | %Recovery Qu 110 96 | | 70 - 130 70 - 130 Spike | | | fier U | | ent S | - | | Prep Typ Prep Ba %Rec. | e: To itch: | tal/N/ 1532 RP Lim |
| 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-153 Matrix: Solid Analysis Batch: 15375 Analyte Benzene | %Recovery Qu 110 96 | | 70 - 130 70 - 130 Spike Added | Result | | fier U | Init | ent S | - | %Rec | Prep Typ Prep Ba %Rec. Limits | e: To itch: RPD | tal/N 1532 RP Lim |
| 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-153 Matrix: Solid Analysis Batch: 15375 Analyte Benzene Toluene | %Recovery Qu 110 96 | | 70 - 130 70 - 130 Spike Added 0.100 | Result 0.1034 | | fier U m | Init ng/Kg | ent S | - | %Rec | Prep Typ Prep Ba %Rec. Limits 70 - 130 | e: To atch: RPD 8 | tal/N 1532 RP Lim 3 |
| 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-153 Matrix: Solid Analysis Batch: 15375 Analyte Benzene Toluene Ethylbenzene | %Recovery Qu 110 96 | | 70 - 130 70 - 130 Spike Added 0.100 0.100 | Result 0.1034 0.1048 | | fier U m m m | Init ng/Kg ng/Kg | ent S | - | %Rec 103 105 | Prep Typ Prep Ba %Rec. Limits 70 - 130 70 - 130 | e: To atch: RPD 8 5 | tal/N 1532 RP Lim 3 3 |
| 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-153 Matrix: Solid Analysis Batch: 15375 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene | %Recovery Qu 110 96 | | 70 - 130 70 - 130 Spike Added 0.100 0.100 0.100 | Result 0.1034 0.1048 0.1064 | | fier U m m m m | Init ng/Kg ng/Kg ng/Kg | ent S | - | %Rec 103 105 106 | Prep Typ Prep Ba %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 | e: Tor atch: RPD 8 5 6 | tal/N 1532 RP Lim 3 3 3 3 |
| 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-153 Matrix: Solid Analysis Batch: 15375 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene | - <u>%Recovery</u> Qui 110 96 326/2-A | alifier | 70 - 130 70 - 130 Spike Added 0.100 0.100 0.100 0.200 0.100 | Result 0.1034 0.1048 0.1064 0.2138 | | fier U m m m m | Init ng/Kg ng/Kg ng/Kg | ent S | - | <pre>%Rec 103 105 106 107</pre> | Prep Typ Prep Ba %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 | e: Tor atch: 8 5 6 10 | tal/N/ 1532 RP Lim 3 3 3 3 |
| Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-15: Matrix: Solid Analysis Batch: 15375 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene | <u>%Recovery</u> Qu. 110 96 326/2-A | alifier | 70 - 130 70 - 130 Spike Added 0.100 0.100 0.200 0.100 0.200 0.100 | Result 0.1034 0.1048 0.1064 0.2138 | | fier U m m m m | Init ng/Kg ng/Kg ng/Kg | ent S | - | <pre>%Rec 103 105 106 107</pre> | Prep Typ Prep Ba %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 | e: Tor atch: 8 5 6 10 | tal/N |
| 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-153 Matrix: Solid Analysis Batch: 15375 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene | - <u>%Recovery</u> Qui 110 96 326/2-A | alifier | 70 - 130 70 - 130 Spike Added 0.100 0.100 0.100 0.200 0.100 | Result 0.1034 0.1048 0.1064 0.2138 | | fier U m m m m | Init ng/Kg ng/Kg ng/Kg | ent S | - | <pre>%Rec 103 105 106 107</pre> | Prep Typ Prep Ba %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 | e: Tor atch: 8 5 6 10 | tal/N/ 1532 RPI Lim 3 3 3 3 |

Matrix: Solid

| Matrix: Solid Analysis Batch: 15375 | | | | | | | | | | Type: Total/NA Batch: 15326 |
|--|----------|-----------|--------|---------|-----------|-------|---|------|----------|--------------------------------|
| | Sample | Sample | Spike | MS | MS | | | | %Rec. | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00200 | U F1 F2 | 0.0998 | 0.06972 | | mg/Kg | | 70 | 70 - 130 | |
| Toluene | <0.00200 | U F1 | 0.0998 | 0.07261 | | mg/Kg | | 72 | 70 - 130 | |

Job ID: 890-1743-1 SDG: 1061112901 Lab Sample ID: 880-9625-A-1-A MS

QC Sample Results

MS MS

0.06766 F1

0.1374 F1

0.06888 F1

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Spike

Added

0.0998

0.200

0.0998

Limits 70 - 130

70 - 130

70 - 130

Client: WSP USA Inc. Project/Site: RDX 17-26

Analysis Batch: 15375

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

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

Sample Sample

<0.00200 UF1

<0.00401 UF1

<0.00200 UF1

MS MS

142 S1+

%Recovery Qualifier

114

88

Result Qualifier

D

| | 303. 1001112901 | |
|---------|---|---|
| | | |
| Client | Sample ID: Matrix Spike Prep Type: Total/NA Prep Batch: 15326 | |
| | %Rec. | 5 |
| %Rec | Limits | |
| 68 | 70 - 130 | |
| 69 | 70 - 130 | |
| 69 | 70 - 130 | 7 |
| | | 8 |
| | | 9 |
| mple ID | : Matrix Spike Duplicate Prep Type: Total/NA | |
| | Prep Batch: 15326 | |

Client Sample ID: Matrix Spike D Prep Type:

Matrix: Solid Analysis Batch: 15375

1,4-Difluorobenzene (Surr)

Lab Sample ID: 880-9625-A-1-B MSD

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

| Analysis Batch: 15375 | | | | | | | | | Prep | Batch: | 15326 |
|-----------------------------|-----------|-----------|----------|---------|-----------|-------|---|------|----------|--------|-------|
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | < 0.00200 | U F1 F2 | 0.0994 | 0.02127 | F1 F2 | mg/Kg | | 21 | 70 - 130 | 106 | 35 |
| Toluene | <0.00200 | U F1 | 0.0994 | 0.06729 | F1 | mg/Kg | | 67 | 70 - 130 | 8 | 35 |
| Ethylbenzene | <0.00200 | U F1 | 0.0994 | 0.06544 | F1 | mg/Kg | | 66 | 70 - 130 | 3 | 35 |
| m-Xylene & p-Xylene | <0.00401 | U F1 | 0.199 | 0.1259 | F1 | mg/Kg | | 63 | 70 - 130 | 9 | 35 |
| o-Xylene | <0.00200 | U F1 | 0.0994 | 0.05627 | F1 | mg/Kg | | 56 | 70 - 130 | 20 | 35 |
| | MSD | MSD | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | | | 70 - 130 | | | | | | | | |

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

| Lab Sample ID: MB 880-15317/1- Matrix: Solid Analysis Batch: 15328 | Α | | | | | | Client Sa | mple ID: Metho Prep Type: 1 Prep Batch | Total/NA |
|--|-----------|-----------|----------|-----|-------|---|----------------|--|----------|
| | MB | МВ | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 11:15 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 11:15 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 09:41 | 12/22/21 11:15 | 1 |
| | MB | МВ | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 115 | | 70 - 130 | | | | 12/22/21 09:41 | 12/22/21 11:15 | 1 |
| o-Terphenyl | 120 | | 70 - 130 | | | | 12/22/21 09:41 | 12/22/21 11:15 | 1 |

Lab Sample ID: LCS 880-15317/2-A Matrix: Solid Analysis Batch: 15328

| Analysis Batch: 15328 | | | | | | | Prep | Batch: 15317 |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|--------------|
| | Spike | LCS | LCS | | | | %Rec. | |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics | 1000 | 791.8 | | mg/Kg | | 79 | 70 - 130 | |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | 1000 | 1008 | | mg/Kg | | 101 | 70 - 130 | |
| C10-C28) | | | | | | | | |

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Prep Type: Total/NA

Client Sample ID: Lab Control Sample

QC Sample Results

Client: WSP USA Inc. Project/Site: RDX 17-26

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

| Lab Sample ID: LCS 880-153 | 17/2-A | | | | | | Client | t Sample | e ID: Lab Co | | |
|---|--------------------------------|-----------|----------|--------|------------------|-------|----------|----------|--------------|-----------------|--------|
| Matrix: Solid | | | | | | | | | Prep 1 | ype: To | tal/NA |
| Analysis Batch: 15328 | | | | | | | | | Prep | Batch: | 15317 |
| | LCS | LCS | | | | | | | | | |
| Surrogate | %Recovery | | Limits | | | | | | | | |
| 1-Chlorooctane | 110 | | 70 - 130 | | | | | | | | |
| o-Terphenyl | 115 | | 70 - 130 | | | | | | | | |
| Lab Sample ID: LCSD 880-15 | 317/3-A | | | | | Clie | nt San | nple ID: | Lab Contro | l Sampl | le Dup |
| Matrix: Solid | | | | | | | | | | ype: To | |
| Analysis Batch: 15328 | | | | | | | | | | Batch: | |
| | | | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Gasoline Range Organics | | | 1000 | 869.0 | | mg/Kg | | 87 | 70 - 130 | 9 | 20 |
| (GRO)-C6-C10 | | | | | | 5 5 | | | | | |
| Diesel Range Organics (Over | | | 1000 | 1036 | | mg/Kg | | 104 | 70 - 130 | 3 | 20 |
| C10-C28) | | | | | | | | | | | |
| | LCSD | LCSD | | | | | | | | | |
| Surrogate | %Recovery | | Limits | | | | | | | | |
| 1-Chlorooctane | | Quanner | 70 - 130 | | | | | | | | |
| o-Terphenyl | 113 | | 70 - 130 | | | | | | | | |
| - | 114 | | 70 - 700 | | | | | | | | |
| Lab Sample ID: 890-1743-1 N | IS | | | | | | | | Client Sa | mple ID: | : FS01 |
| Matrix: Solid | | | | | | | | | | ype: To | |
| Analysis Batch: 15328 | | | | | | | | | | Batch: | |
| | Sample | Sample | Spike | MS | MS | | | | %Rec. | | |
| Analyte | - | Qualifier | Added | | Qualifier | Unit | D | %Rec | Limits | | |
| Gasoline Range Organics | <49.9 | | 996 | 1031 | | mg/Kg | | 101 | 70 - 130 | | |
| (GRO)-C6-C10 | 1010 | • | | | | | | | 10 100 | | |
| Diesel Range Organics (Over | 126 | | 996 | 1014 | | mg/Kg | | 89 | 70 - 130 | | |
| C10-C28) | | | | | | | | | | | |
| | МС | MC | | | | | | | | | |
| 0 | MS | | 1 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | | | | | | | | | |
| 1-Chlorooctane | 92 | | | | | | | | | | |
| o-Terphenyl | 87 | | 70 - 130 | | | | | | | | |
| - Lab Sample ID: 890-1743-1 N | | | | | | | | | Client Se | | |
| • | 130 | | | | | | | | Client Sa | | |
| Matrix: Solid | | | | | | | | | | ype: To | |
| Analysis Batch: 15328 | 0 | 0 | 0 | MOD | MOD | | | | | Batch: | |
| Anglista | | Sample | Spike | | MSD Ovelifier | 11 | | | %Rec. | 000 | RPD |
| Analyte | - Result <49.9 | Qualifier | Added | 1002 | Qualifier | | <u>D</u> | %Rec | Limits | RPD 3 | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | ~49.9 | 0 | 990 | 1002 | | mg/Kg | | 98 | 70 - 130 | 3 | 20 |
| Diesel Range Organics (Over | 126 | | 995 | 1192 | | mg/Kg | | 107 | 70 - 130 | 16 | 20 |
| C10-C28) | .20 | | 000 | 1102 | | | | | | 10 | 20 |
| · | | | | | | | | | | | |
| | | | | | | | | | | | |
| | MSD | | | | | | | | | | |
| Surrogate 1-Chlorooctane | MSD <u>%Recovery</u> 103 | | Limits | | | | | | | | |

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o-Terphenyl

101

70 - 130

Client: WSP USA Inc.

Project/Site: RDX 17-26

QC Sample Results

Job ID: 890-1743-1 SDG: 1061112901

Method: 300.0 - Anions, Ion Chromatography

| _ Lab Sample ID: MB 880-15278/1-A | | | | | | | | | | (| Client S | ample ID: | Method | Blank |
|--------------------------------------|--------|-----------------|-------|------|-------|------|-------|-------|---------|-----|----------|------------|----------|---------|
| Matrix: Solid | | | | | | | | | | | | Prep | Type: S | oluble |
| Analysis Batch: 15401 | | | | | | | | | | | | | | |
| | | MB MB | | | | | | | | | | | | |
| Analyte | R | esult Qualifier | | RL | | MDL | Unit | | D | Pre | epared | Analy | zed | Dil Fac |
| _Chloride | < | 5.00 U | | 5.00 | | | mg/Kg | 9 | | | | 12/22/21 | 10:00 | 1 |
| | A | | | | | | | | Clie | nt | Sample | D: Lab C | ontrol S | ample |
| Matrix: Solid | | | | | | | | | | | | Prep | Type: S | oluble |
| Analysis Batch: 15401 | | | | | | | | | | | | | | |
| | | | Spike | | LCS | LCS | | | | | | %Rec. | | |
| Analyte | | | Added | R | esult | Qua | ifier | Unit | [| D _ | %Rec | Limits | | |
| Chloride | | | 250 | 2 | 253.5 | | | mg/Kg | | | 101 | 90 - 110 | | |
| | B-A | | | | | | | Cli | ient Sa | amj | ple ID: | Lab Contro | ol Sampl | le Dup |
| Matrix: Solid | | | | | | | | | | | | Prep | Type: S | oluble |
| Analysis Batch: 15401 | | | | | | | | | | | | | | |
| | | | Spike | L | CSD | LCS | D | | | | | %Rec. | | RPD |
| Analyte | | | Added | R | esult | Qual | ifier | Unit | I | D | %Rec | Limits | RPD | Limit |
| Chloride | | | 250 | 2 | 247.8 | | | mg/Kg | | | 99 | 90 - 110 | 2 | 20 |
| Lab Sample ID: 890-1743-4 MS | | | | | | | | | | | | Client Sa | mple ID: | : FS04 |
| Matrix: Solid | | | | | | | | | | | | Prep | Type: S | oluble |
| Analysis Batch: 15401 | | | | | | | | | | | | | | |
| | Sample | Sample | Spike | | MS | MS | | | | | | %Rec. | | |
| Analyte | Result | Qualifier | Added | R | esult | Qual | ifier | Unit | I | D | %Rec | Limits | | |
| Chloride | 6560 | | 2500 | 9 | 9222 | | | mg/Kg | | | 107 | 90 - 110 | | |
| Lab Sample ID: 890-1743-4 MSD | | | | | | | | | | | | Client Sa | mple ID: | : FS04 |
| Matrix: Solid | | | | | | | | | | | | | Type: S | |
| Analysis Batch: 15401 | | | | | | | | | | | | | | |
| - | Sample | Sample | Spike | | MSD | MSD | 1 | | | | | %Rec. | | RPD |
| Analyte | Result | Qualifier | Added | R | esult | Qual | ifier | Unit | I | D | %Rec | Limits | RPD | Limit |
| | 6560 | | | | | | | | | | | | | |

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QC Association Summary

Client: WSP USA Inc. Project/Site: RDX 17-26

5 6

Job ID: 890-1743-1 SDG: 1061112901

GC VOA

Prep Batch: 15326

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1743-1 | FS01 | Total/NA | Solid | 5035 | |
| 890-1743-2 | FS02 | Total/NA | Solid | 5035 | |
| 890-1743-3 | FS03 | Total/NA | Solid | 5035 | |
| 890-1743-4 | FS04 | Total/NA | Solid | 5035 | |
| 890-1743-5 | FS05 | Total/NA | Solid | 5035 | |
| 890-1743-6 | FS06 | Total/NA | Solid | 5035 | |
| 890-1743-7 | FS07 | Total/NA | Solid | 5035 | |
| 890-1743-8 | FS08 | Total/NA | Solid | 5035 | |
| MB 880-15326/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-15326/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-15326/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-9625-A-1-A MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-9625-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 15375

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1743-1 | FS01 | Total/NA | Solid | 8021B | 15326 |
| 890-1743-2 | FS02 | Total/NA | Solid | 8021B | 15326 |
| 890-1743-3 | FS03 | Total/NA | Solid | 8021B | 15326 |
| 890-1743-4 | FS04 | Total/NA | Solid | 8021B | 15326 |
| 890-1743-5 | FS05 | Total/NA | Solid | 8021B | 15326 |
| 890-1743-6 | FS06 | Total/NA | Solid | 8021B | 15326 |
| 890-1743-7 | FS07 | Total/NA | Solid | 8021B | 15326 |
| 890-1743-8 | FS08 | Total/NA | Solid | 8021B | 15326 |
| MB 880-15326/5-A | Method Blank | Total/NA | Solid | 8021B | 15326 |
| LCS 880-15326/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 15326 |
| LCSD 880-15326/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 15326 |
| 880-9625-A-1-A MS | Matrix Spike | Total/NA | Solid | 8021B | 15326 |
| 880-9625-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 15326 |

Analysis Batch: 15505

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1743-1 | FS01 | Total/NA | Solid | Total BTEX | |
| 890-1743-2 | FS02 | Total/NA | Solid | Total BTEX | |
| 890-1743-3 | FS03 | Total/NA | Solid | Total BTEX | |
| 890-1743-4 | FS04 | Total/NA | Solid | Total BTEX | |
| 890-1743-5 | FS05 | Total/NA | Solid | Total BTEX | |
| 890-1743-6 | FS06 | Total/NA | Solid | Total BTEX | |
| 890-1743-7 | FS07 | Total/NA | Solid | Total BTEX | |
| 890-1743-8 | FS08 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 15317

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 890-1743-1 | FS01 | Total/NA | Solid | 8015NM Prep | |
| 890-1743-2 | FS02 | Total/NA | Solid | 8015NM Prep | |
| 890-1743-3 | FS03 | Total/NA | Solid | 8015NM Prep | |
| 890-1743-4 | FS04 | Total/NA | Solid | 8015NM Prep | |
| 890-1743-5 | FS05 | Total/NA | Solid | 8015NM Prep | |
| 890-1743-6 | FS06 | Total/NA | Solid | 8015NM Prep | |

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QC Association Summary

Client: WSP USA Inc. Project/Site: RDX 17-26

GC Semi VOA (Continued)

Prep Batch: 15317 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-1743-7 | FS07 | Total/NA | Solid | 8015NM Prep | |
| 890-1743-8 | FS08 | Total/NA | Solid | 8015NM Prep | |
| MB 880-15317/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-15317/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-15317/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-1743-1 MS | FS01 | Total/NA | Solid | 8015NM Prep | |
| 890-1743-1 MSD | FS01 | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 15328

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch | 9 |
|--------------------|------------------------|-----------|--------|----------|------------|---|
| 890-1743-1 | FS01 | Total/NA | Solid | 8015B NM | 15317 | |
| 890-1743-2 | FS02 | Total/NA | Solid | 8015B NM | 15317 | |
| 890-1743-3 | FS03 | Total/NA | Solid | 8015B NM | 15317 | |
| 890-1743-4 | FS04 | Total/NA | Solid | 8015B NM | 15317 | |
| 890-1743-5 | FS05 | Total/NA | Solid | 8015B NM | 15317 | |
| 890-1743-6 | FS06 | Total/NA | Solid | 8015B NM | 15317 | |
| 890-1743-7 | FS07 | Total/NA | Solid | 8015B NM | 15317 | |
| 890-1743-8 | FS08 | Total/NA | Solid | 8015B NM | 15317 | |
| MB 880-15317/1-A | Method Blank | Total/NA | Solid | 8015B NM | 15317 | |
| LCS 880-15317/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 15317 | |
| LCSD 880-15317/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 15317 | |
| 890-1743-1 MS | FS01 | Total/NA | Solid | 8015B NM | 15317 | |
| 890-1743-1 MSD | FS01 | Total/NA | Solid | 8015B NM | 15317 | |

Analysis Batch: 15674

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1743-1 | FS01 | Total/NA | Solid | 8015 NM | |
| 890-1743-2 | FS02 | Total/NA | Solid | 8015 NM | |
| 890-1743-3 | FS03 | Total/NA | Solid | 8015 NM | |
| 890-1743-4 | FS04 | Total/NA | Solid | 8015 NM | |
| 890-1743-5 | FS05 | Total/NA | Solid | 8015 NM | |
| 890-1743-6 | FS06 | Total/NA | Solid | 8015 NM | |
| 890-1743-7 | FS07 | Total/NA | Solid | 8015 NM | |
| 890-1743-8 | FS08 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 15278

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1743-1 | FS01 | Soluble | Solid | DI Leach | |
| 890-1743-2 | FS02 | Soluble | Solid | DI Leach | |
| 890-1743-3 | FS03 | Soluble | Solid | DI Leach | |
| 890-1743-4 | FS04 | Soluble | Solid | DI Leach | |
| 890-1743-5 | FS05 | Soluble | Solid | DI Leach | |
| 890-1743-6 | FS06 | Soluble | Solid | DI Leach | |
| 890-1743-7 | FS07 | Soluble | Solid | DI Leach | |
| 890-1743-8 | FS08 | Soluble | Solid | DI Leach | |
| MB 880-15278/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-15278/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-15278/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-1743-4 MS | FS04 | Soluble | Solid | DI Leach | |

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Job ID: 890-1743-1 SDG: 1061112901 890-1743-4 MS

890-1743-4 MSD

FS04

FS04

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15278

15278

Job ID: 890-1743-1 SDG: 1061112901

HPLC/IC (Continued)

Least Details (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 390-1743-4 MSD | FS04 | Soluble | Solid | DI Leach | |
| nalysis Batch: 15401 | l | | | | |
| ab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 90-1743-1 | FS01 | Soluble | Solid | 300.0 | 15278 |
| 90-1743-2 | FS02 | Soluble | Solid | 300.0 | 15278 |
| 90-1743-3 | FS03 | Soluble | Solid | 300.0 | 15278 |
| 90-1743-4 | FS04 | Soluble | Solid | 300.0 | 15278 |
| 90-1743-5 | FS05 | Soluble | Solid | 300.0 | 15278 |
| 90-1743-6 | FS06 | Soluble | Solid | 300.0 | 15278 |
| 90-1743-7 | FS07 | Soluble | Solid | 300.0 | 15278 |
| 890-1743-8 | FS08 | Soluble | Solid | 300.0 | 15278 |
| /IB 880-15278/1-A | Method Blank | Soluble | Solid | 300.0 | 15278 |
| CS 880-15278/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 15278 |
| CSD 880-15278/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 15278 |

Soluble

Soluble

Eurofins Xenco, Carlsbad

300.0

300.0

Solid

Solid

Released to Imaging: 5/4/2022 11:52:07 AM

Job ID: 890-1743-1 SDG: 1061112901

Lab Sample ID: 890-1743-1 Matrix: Solid

Date Collected: 12/16/21 11:45 Date Received: 12/20/21 16:59

Client Sample ID: FS01

Client: WSP USA Inc.

Project/Site: RDX 17-26

| Batch | Batch | | Dil | Initial | Final Amount | Batch | Prepared | | | |
|-----------|----------|-------------|------------|---------|-----------------|--------|-------------|----------------|-----|---------|
| Prep Type | Туре | Method | Run Factor | Amount | | Number | or Analyzed | Analyst | Lab | |
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 15326 | 12/22/21 10:02 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15375 | 12/22/21 19:24 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15505 | 12/28/21 08:41 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15674 | 12/28/21 17:22 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 15317 | 12/22/21 09:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15328 | 12/22/21 12:17 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 15278 | 12/21/21 15:12 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 20 | | | 15401 | 12/22/21 12:20 | SC | XEN MID |

Client Sample ID: FS02

Date Collected: 12/16/21 11:48

Date Received: 12/20/21 16:59

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 15326 | 12/22/21 10:02 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15375 | 12/22/21 19:44 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15505 | 12/28/21 08:41 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15674 | 12/28/21 17:22 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15317 | 12/22/21 09:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15328 | 12/22/21 13:19 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 15278 | 12/21/21 15:12 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 50 | | | 15401 | 12/22/21 12:30 | SC | XEN MID |

Client Sample ID: FS03

Date Collected: 12/16/21 11:50

Date Received: 12/20/21 16:59

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 15326 | 12/22/21 10:02 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15375 | 12/22/21 21:34 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15505 | 12/28/21 08:41 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15674 | 12/28/21 17:22 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15317 | 12/22/21 09:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15328 | 12/22/21 13:40 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 15278 | 12/21/21 15:12 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 20 | | | 15401 | 12/22/21 12:40 | SC | XEN MID |

Client Sample ID: FS04 Date Collected: 12/16/21 11:54 Date Received: 12/20/21 16:59

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Ргер Туре | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 15326 | 12/22/21 10:02 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15375 | 12/22/21 21:54 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15505 | 12/28/21 08:41 | AJ | XEN MID |

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5 6

Lab Sample ID: 890-1743-2 Matrix: Solid

Lab Sample ID: 890-1743-3

Lab Sample ID: 890-1743-4

| 1 | 3 |
|---|---|
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| | |

Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: WSP USA Inc. Project/Site: RDX 17-26

Client Sample ID: FS04

Date Collected: 12/16/21 11:54 Date Received: 12/20/21 16:59

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15674 | 12/28/21 17:22 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 15317 | 12/22/21 09:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15328 | 12/22/21 16:45 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 15278 | 12/21/21 15:12 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 15401 | 12/22/21 12:50 | SC | XEN MID |

Client Sample ID: FS05 Date Collected: 12/16/21 11:57

Date Received: 12/20/21 16:59

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 15326 | 12/22/21 10:02 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15375 | 12/22/21 22:15 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15505 | 12/28/21 08:41 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15674 | 12/28/21 17:22 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 15317 | 12/22/21 09:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15328 | 12/22/21 17:05 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 15278 | 12/21/21 15:12 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 20 | | | 15401 | 12/22/21 13:19 | SC | XEN MID |

Client Sample ID: FS06

Date Collected: 12/16/21 12:00 Date Received: 12/20/21 16:59

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 15326 | 12/22/21 10:02 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15375 | 12/22/21 22:35 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15505 | 12/28/21 08:41 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15674 | 12/28/21 17:22 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 15317 | 12/22/21 09:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15328 | 12/22/21 17:26 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 15278 | 12/21/21 15:12 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 15401 | 12/22/21 13:29 | SC | XEN MID |

Client Sample ID: FS07

Date Collected: 12/16/21 12:03 Date Received: 12/20/21 16:59

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Ргер Туре | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 15326 | 12/22/21 10:02 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15375 | 12/22/21 22:56 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15505 | 12/28/21 08:41 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15674 | 12/28/21 17:22 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15317 | 12/22/21 09:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15328 | 12/22/21 18:07 | AJ | XEN MID |

Eurofins Xenco, Carlsbad

Job ID: 890-1743-1 SDG: 1061112901

Lab Sample ID: 890-1743-4 Matrix: Solid

Lab Sample ID: 890-1743-5

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Lab Sample ID: 890-1743-6

Matrix: Solid

9 Matrix: Solid

Lab Sample ID: 890-1743-7 Matrix: Solid

Lab Chronicle

Client: WSP USA Inc. Project/Site: RDX 17-26

Client Sample ID: FS07

Date Collected: 12/16/21 12:03 Date Received: 12/20/21 16:59

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|----------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Ргер Туре | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 15278 | 12/21/21 15:12 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 15401 | 12/22/21 13:59 | SC | XEN MID |

Client Sample ID: FS08 Date Collected: 12/16/21 12:06 Date Received: 12/20/21 16:59

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Ргер Туре | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 15326 | 12/22/21 10:02 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15375 | 12/22/21 23:16 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15505 | 12/28/21 08:41 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15674 | 12/28/21 17:22 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 15317 | 12/22/21 09:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15328 | 12/22/21 18:28 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 15278 | 12/21/21 15:12 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 15401 | 12/22/21 14:09 | SC | XEN MID |

Laboratory References:

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

SDG: 1061112901 Lab Sample ID: 890-1743-7

Job ID: 890-1743-1

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-1743-8

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Eurofins Xenco, Carlsbad

Client: WSP USA Inc. Project/Site: RDX 17-26 Job ID: 890-1743-1

SDG: 1061112901

Laboratory: Eurofins Xenco, Midland

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

| thority kas | | rogram | Identification Number | Expiration Date |
|---|--------------------------------|---------------------------------|--|---------------------------|
| | | ELAP | T104704400-21-22 | 06-30-22 |
| The following analytes | are included in this report by | ut the laboratory is not certif | ied by the governing authority. This list ma | av include analytes for v |
| the agency does not of | fer certification. | | | |
| the agency does not of Analysis Method | | Matrix | Analyte | |
| the agency does not of | fer certification. | | | |

Eurofins Xenco, Carlsbad

10

Method Summary

Client: WSP USA Inc. Project/Site: RDX 17-26 Job ID: 890-1743-1 SDG: 1061112901

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Client: WSP USA Inc. Project/Site: RDX 17-26

Job ID: 890-1743-1 SDG: 1061112901

| ab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|--------------|------------------|--------|----------------|----------------|-------|
| 90-1743-1 | FS01 | Solid | 12/16/21 11:45 | 12/20/21 16:59 | 0.5 |
| 90-1743-2 | FS02 | Solid | 12/16/21 11:48 | 12/20/21 16:59 | 0.5 |
| 90-1743-3 | FS03 | Solid | 12/16/21 11:50 | 12/20/21 16:59 | 0.5 |
| 90-1743-4 | FS04 | Solid | 12/16/21 11:54 | 12/20/21 16:59 | 0.5 |
| 90-1743-5 | FS05 | Solid | 12/16/21 11:57 | 12/20/21 16:59 | 0.5 |
| 90-1743-6 | FS06 | Solid | 12/16/21 12:00 | 12/20/21 16:59 | 0.5 |
| 90-1743-7 | FS07 | Solid | 12/16/21 12:03 | 12/20/21 16:59 | 0.5 |
| 90-1743-8 | FS08 | Solid | 12/16/21 12:06 | 12/20/21 16:59 | 0.5 |
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| Page of | | 16544446 1. |
|--|--|-------------|
| Work Order No: | Work Order Collection Work Order Collection Level III Level III P Level III Level III P Level III ADaP ADaP ADaP II K Se Ag SiO ₂ Na Sr Hg: 1631/245.1/ | |
| stody s, TX (214) 902-0300 anio. TX (210) 509-3334 ck, TX (806) 794-1296 dd, NM (575) 988-3199 | ANALYSIS REQUES ANALYSIS REQUES ANALYSIS REQUES B90-1743 Chain o B90-1743 Chain o Cu Fe Pb Mg h b Mn Mo Ni Se tassigns tandard terms a te to circumstances beyon | |
| Chain of Custody Houston, TX (281) 240-4200, Dallss, TX (214) 902-0300 Midland, TX (432) 204-5440, San Antonio, TX (210) 509-3334 EL Peso, TX (915) 585-3441, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 | 0. (if different) JIM Raley Denny Name: WPX Denny Name: WPX Denny Name: WPX State ZIP: Galul bod State ZIP: Galul bod Inca · byeld Even Mush Pers. Inca · byeld Even Parameter State ZIP: Inca · byeld Even Rush Even Rush <t< td=""><td></td></t<> | |
| | LUNAR Bill to: (if different) SJ (RC Company Name: SJ (RC Address: Turn and the second | |
| Fins Environment Testing Xenco | Project Manager: Tokeph Hernundet Company Name: ULSP USA Criv, State ZIP: Mud land, TX 79730 Project Number: (DSI), 2930 N 4 Project Number: (DSI), 2930 N 6 Project Location: (DSI), 2932 No Sampler Shered Intact: (CS) No No Sampler Shered Intact: (CS) No No Coler Custody Seals: Yes: No No Sample Identification Matrix Date Sample Identification Matrix Date Sample Identification Natrix Date | |
| 🐝 eurofins | Project Manager: Tickenh Company Name: UUF Address: 33.800 Address: 33.800 City, State ZIP: Mud Ru Project Number: (281) Project Number: (281) Project Location: 281) Project Location: 281) Project Location: Project Location: Sampler's Name: NOK1 Project Location: 12.007 Sample Received Intact: Ves Sample Custody Seals: Ves Sample Custody Seals: Ves Sample Custody Seals: Ves Ford Containers: Ves Ford Conto cord Ves Ves F | |

12 13 14

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1743 List Number: 1 Creator: Clifton, Cloe

Question Answer Comment The cooler's custody seal, if present, is intact. True Sample custody seals, if present, are intact. True The cooler or samples do not appear to have been compromised or True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 True MS/MSDs

N/A

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

Job Number: 890-1743-1 SDG Number: 1061112901

List Source: Eurofins Xenco, Carlsbad

Job Number: 890-1743-1 SDG Number: 1061112901

List Source: Eurofins Xenco, Midland

List Creation: 12/21/21 02:08 PM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1743 List Number: 2 Creator: Rodriguez, Leticia

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

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

14

Received by OCD: 3/31/2022 11:00:09 AM

1 2 3

ANALYTICAL REPORT

America

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

Laboratory Job ID: 890-1844-1

Laboratory Sample Delivery Group: Rural Eddy County Client Project/Site: RDX 17-26

Environment Testing

For:

eurofins 🔅

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

Attn: Joseph Hernandez

RAMER

Authorized for release by: 1/24/2022 6:48:10 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?

www.eurofinsus.com/Env Released to Imaging: 5/4/2022 11:52:07 AM

Ask-

The

Visit us at:

Expert

Laboratory Job ID: 890-1844-1 SDG: Rural Eddy County

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| | Definitions/Glossary | |
|----------------------------------|---|-----|
| Client: WSP U Project/Site: R | USA Inc. Job ID: 890-1844- | |
| Qualifiers | | _ 3 |
| GC VOA | | |
| Qualifier | Qualifier Description | _ 4 |
| F1 | MS and/or MSD recovery exceeds control limits. | |
| F2 | MS/MSD RPD exceeds control limits | 5 |
| U | Indicates the analyte was analyzed for but not detected. | |
| GC Semi VOA | Α | |
| Qualifier | Qualifier Description | |
| F1 | MS and/or MSD recovery exceeds control limits. | - 7 |
| U | Indicates the analyte was analyzed for but not detected. | |
| HPLC/IC | | 8 |
| Qualifier | Qualifier Description | |
| U | Indicates the analyte was analyzed for but not detected. | 9 |
| Glossary | | 10 |
| 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 | 14 |
| %R | Percent Recovery | |
| CFL | Contains Free Liquid | |
| CFU | Colony Forming Unit | |
| CNF | Contains No Free Liquid | 19 |
| 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) | |
| | | |

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)

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Presumptive

Quality Control

Negative / Absent Positive / Present

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

MCL

MDA

MDC

MDL

MPN

MQL

NC

ND NEG

POS PQL

PRES

QC

RER

RPD

TEF

TEQ

TNTC

RL

ML

Job ID: 890-1844-1

SDG: Rural Eddy County

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4

5

Job ID: 890-1844-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1844-1

Receipt

The sample was received on 1/18/2022 1:55 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

GC VOA

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

GC Semi VOA

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17278 and analytical batch 880-17438 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-1838-A-1-E). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Job ID: 890-1844-1 SDG: Rural Eddy County

Client Sample ID: FS02A

Date Collected: 01/13/22 09:02 Date Received: 01/18/22 13:55

Sample Depth: 0.75

Client: WSP USA Inc.

Project/Site: RDX 17-26

Lab Sample ID: 890-1844-1

Matrix: Solid

| Method: 8021B - Volatile Organic | : Compounds (| (GC) | | | | | | | |
|--|---|---|--|------------|---------------------------------|-------|---|--|---|
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | _ | 01/19/22 13:45 | 01/21/22 02:19 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 02:19 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 02:19 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 02:19 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 02:19 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 02:19 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 126 | | 70 - 130 | | | | 01/19/22 13:45 | 01/21/22 02:19 | 1 |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | | | | 01/19/22 13:45 | 01/21/22 02:19 | 1 |
| — Г | | | | | | | | | |
| Method: Total BTEX - Total BTEX | | | | | | | | - | |
| Analyte | | Qualifier | RL | MDL | | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/24/22 17:08 | 1 |
| Mathed 0045 MM Direct Dr | Ormanias (DD | | | | | | | | |
| Method: 8015 NM - Diesel Range | | | D 1 | MO | Unit | _ | Draman | A making -1 | |
| | _ Result <50.0 | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | 250.0 | | | | me/1/ | | | 01/04/00 40 00 | |
| <u> </u> | ~30.0 | 0 | 50.0 | | mg/Kg | | | 01/24/22 16:33 | 1 |
| Method: 8015B NM - Diesel Rang | | | 50.0 | | mg/Kg | | | 01/24/22 16:33 | 1 |
| Method: 8015B NM - Diesel Rang Analyte | je Organics (D | | 50.0 RL | MDL | | D | Prepared | 01/24/22 16:33 Analyzed | 1 Dil Fac |
| Analyte Gasoline Range Organics | je Organics (D | RO) (GC) Qualifier | | MDL | | D | Prepared 01/19/22 13:54 | | 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 | ge Organics (D) Result <50.0 | RO) (GC) Qualifier U | RL | MDL | Unit mg/Kg | D | 01/19/22 13:54 | Analyzed 01/21/22 20:34 | 1 1 |
| Analyte Gasoline Range Organics | ge Organics (D Result | RO) (GC) Qualifier U | RL | MDL | Unit | D | | Analyzed | 1 Dil Fac |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | ge Organics (D) Result <50.0 | RO) (GC) Qualifier U | RL | MDL | Unit mg/Kg | D | 01/19/22 13:54 | Analyzed 01/21/22 20:34 | 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | ge Organics (D) <u>Result</u> <50.0 <50.0 | RO) (GC) Qualifier U U | RL 50.0 | MDL | Unit mg/Kg mg/Kg | D | 01/19/22 13:54 01/19/22 13:54 | Analyzed 01/21/22 20:34 01/21/22 20:34 | 1 Dil Fac 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | ge Organics (D) <u>Result</u> <50.0 <50.0 <50.0 | RO) (GC) Qualifier U U | RL 50.0 50.0 50.0 | MDL | Unit mg/Kg mg/Kg | D | 01/19/22 13:54 01/19/22 13:54 01/19/22 13:54 | Analyzed 01/21/22 20:34 01/21/22 20:34 01/21/22 20:34 | 1 Dil Fac 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate | ge Organics (D) Result <50.0 <50.0 <50.0 %Recovery | RO) (GC) Qualifier U U | RL 50.0 50.0 50.0 <i>Limits</i> | MDL | Unit mg/Kg mg/Kg | D | 01/19/22 13:54 01/19/22 13:54 01/19/22 13:54 01/19/22 13:54 Prepared | Analyzed 01/21/22 20:34 01/21/22 20:34 01/21/22 20:34 Analyzed | 1 Dil Fac 1 1 Dil Fac |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl | ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 <i>%Recovery</i> 74 81 | RO) (GC) Qualifier U U Qualifier | RL 50.0 50.0 50.0 <u>Limits</u> 70 - 130 | <u>MDL</u> | Unit mg/Kg mg/Kg | D | 01/19/22 13:54 01/19/22 13:54 01/19/22 13:54 01/19/22 13:54 Prepared 01/19/22 13:54 | Analyzed 01/21/22 20:34 01/21/22 20:34 01/21/22 20:34 Analyzed 01/21/22 20:34 | 1 Dil Fac 1 1 1 Dil Fac 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro | ge Organics (D) <u>Result</u> <50.0 <50.0 <50.0 <70.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80 | RO) (GC) Qualifier U U Qualifier Soluble | RL 50.0 50.0 50.0 50.0 50.0 50.0 70.130 70.130 | | Unit mg/Kg mg/Kg mg/Kg | | 01/19/22 13:54 01/19/22 13:54 01/19/22 13:54 01/19/22 13:54 01/19/22 13:54 01/19/22 13:54 | Analyzed 01/21/22 20:34 01/21/22 20:34 01/21/22 20:34 Analyzed 01/21/22 20:34 01/21/22 20:34 | 1 Dil Fac 1 1 1 <i>Dil Fac</i> 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl | ge Organics (D) <u>Result</u> <50.0 <50.0 <50.0 <70.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80 | RO) (GC) Qualifier U U Qualifier | RL 50.0 50.0 50.0 <u>Limits</u> 70 - 130 | MDL | Unit mg/Kg mg/Kg mg/Kg | D | 01/19/22 13:54 01/19/22 13:54 01/19/22 13:54 01/19/22 13:54 Prepared 01/19/22 13:54 | Analyzed 01/21/22 20:34 01/21/22 20:34 01/21/22 20:34 Analyzed 01/21/22 20:34 | 1 Dil Fac 1 1 1 Dil Fac 1 |

Job ID: 890-1844-1 SDG: Rural Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Client: WSP USA Inc.

Project/Site: RDX 17-26

| | | | | Percent Surrogate Recovery (Acceptance Limits) | |
|-------------------------|------------------------|----------|----------|--|-----|
| | | BFB1 | DFBZ1 | | 5 |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | | . P |
| 880-10289-A-115-F MS | Matrix Spike | 110 | 97 | | |
| 880-10289-A-115-G MSD | Matrix Spike Duplicate | 88 | 82 | | 6 |
| 890-1844-1 | FS02A | 126 | 94 | | |
| LCS 880-17218/1-A | Lab Control Sample | 112 | 94 | | |
| LCSD 880-17218/2-A | Lab Control Sample Dup | 110 | 98 | | |
| MB 880-17131/5-A | Method Blank | 123 | 97 | | 8 |
| MB 880-17218/5-A | Method Blank | 114 | 97 | | |
| Surrogate Legend | | | | | 9 |
| BFB = 4-Bromofluorobenz | zene (Surr) | | | | |

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

| | | | | Percent Surrogate Recovery (Acceptance Limits) |
|---------------|------------------------|----------|----------|--|
| | | 1CO1 | OTPH1 | |
| o Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 838-A-1-F MS | Matrix Spike | 73 | 71 | |
| 838-A-1-G MSD | Matrix Spike Duplicate | 77 | 76 | |
| 344-1 | FS02A | 74 | 81 | |
| 0-17278/2-A | Lab Control Sample | 99 | 104 | |
| 880-17278/3-A | Lab Control Sample Dup | 99 | 105 | |
| 380-17278/1-A | Method Blank | 92 | 109 | |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Prep Type: Total/NA

Client: WSP USA Inc.

QC Sample Results

Job ID: 890-1844-1 SDG: Rural Eddy County

Project/Site: RDX 17-26 Method: 8021B - Volatile Organic Compounds (GC)

| Lab Sample ID: MB 880-17131 | / J-A | | | | | | | | | Chefit Sa | mple ID: Metho | |
|--|--|------------------|---------------------------------------|--------------|-----------------|-------|--------|----------|-------|--------------------|-------------------------|----------------------------|
| Matrix: Solid | | | | | | | | | | | Prep Type: | |
| Analysis Batch: 17325 | _ | | | | | | | | | | Prep Batc | h: 1713 |
| A maluán | | B MB Ilt Qual | i di a r | RL | MDI | 11 | | D | Β. | epared | Analyzed | Dil Fa |
| Analyte Benzene | <0.0020 | | 0.00 | | | Unit | | _ | | 9/22 07:30 | Analyzed 01/20/22 11:10 | |
| Toluene | <0.0020 | | | | | mg/Kg | | | | | | |
| | <0.0020 | | 0.00 |)200)200 | | mg/Kg | | | | 9/22 07:30 | 01/20/22 11:10 | |
| Ethylbenzene | | | | | | mg/Kg | | | | 9/22 07:30 | 01/20/22 11:10 | |
| m-Xylene & p-Xylene | < 0.004 | | | 400 | | mg/Kg | | | | 9/22 07:30 | 01/20/22 11:10 | |
| p-Xylene | <0.0020 | | | 200 | | mg/Kg | | | | 9/22 07:30 | 01/20/22 11:10 | |
| Xylenes, Total | <0.0040 | 0 0 | 0.00 | 400 | | mg/Kg | 1 | | 01/19 | 9/22 07:30 | 01/20/22 11:10 | |
| | N | B MB | | | | | | | | | | |
| Surrogate | %Recove | ry Qua | ifier Limit | s | | | | | Pi | repared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene (Surr) | 1 | 23 | 70 - 1 | 30 | | | | | 01/1 | 9/22 07:30 | 01/20/22 11:10 | |
| 1,4-Difluorobenzene (Surr) | : | 97 | 70 - 1 | 30 | | | | | 01/1 | 9/22 07:30 | 01/20/22 11:10 | |
| Lab Sample ID: MB 880-17218 | /5-4 | | | | | | | | | Client Sa | mple ID: Metho | od Blan |
| Matrix: Solid | | | | | | | | | | | Prep Type: | |
| Analysis Batch: 17325 | | | | | | | | | | | Prep Batc | |
| Analysis Datch. 17525 | N | в мв | | | | | | | | | Fiep Bate | |
| Analyte | | ilt Qual | ifier | RL | мы | Unit | | D | Pr | repared | Analyzed | Dil Fa |
| Benzene | <0.0020 | | 0.00 | | | mg/Kg | | <u> </u> | | 9/22 13:45 | 01/20/22 22:47 | |
| Toluene | <0.002 | | | 200 | | mg/Kg | | | | 9/22 13:45 | 01/20/22 22:47 | |
| | <0.0020 | | | | | | | | | | | |
| | | | | 200 | | mg/Kg | | | | 9/22 13:45 | 01/20/22 22:47 | |
| m-Xylene & p-Xylene | < 0.004 | | | 9400 | | mg/Kg | | | | 9/22 13:45 | 01/20/22 22:47 | |
| o-Xylene | < 0.002 | | 0.00 | | | mg/Kg | | | | 9/22 13:45 | 01/20/22 22:47 | |
| Xylenes, Total | <0.0040 | 0 U | 0.00 | 1400 | | mg/Kg | | | 01/18 | 9/22 13:45 | 01/20/22 22:47 | |
| | N | B MB | | | | | | | | | | |
| Surrogate | %Recove | ry Qua | ifier Limit | s | | | | | Pi | repared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene (Surr) | 1 | 14 | 70 - 1 | 30 | | | | | 01/1 | 9/22 13:45 | 01/20/22 22:47 | |
| 1,4-Difluorobenzene (Surr) | : | 97 | 70 - 1 | 30 | | | | | 01/1 | 9/22 13:45 | 01/20/22 22:47 | |
| Lab Sample ID: LCS 880-17218 | 8/1 -A | | | | | | | С | lient | Sample I | D: Lab Contro | Sampl |
| Matrix: Solid | | | | | | | | | | | Prep Type: | |
| Analysis Batch: 17325 | | | | | | | | | | | Prep Batc | |
| | | | Spike | LC | S LCS | | | | | | %Rec. | |
| Analyte | | | Added | | lt Qua | | Unit | | D | %Rec | Limits | |
| Benzene | | | 0.100 | 0.0863 | | | mg/Kg | | | 86 | 70 - 130 | |
| Toluene | | | 0.100 | 0.0939 | | | mg/Kg | | | 94 | 70 - 130 | |
| Ethylbenzene | | | 0.100 | 0.100 | | | mg/Kg | | | 101 | 70 - 130 | |
| | | | 0.100 | 0.100 | | | mg/Kg | | | 97 | 70 - 130 70 - 130 | |
| m-Xvlene & n-Xvlene | | | 0.200 | 0.0957 | | | mg/Kg | | | 96 | 70 - 130 70 - 130 | |
| | | | 0.100 | 0.0937 | 0 | | mg/rxy | | | 90 | 70 - 100 | |
| | | | | | | | | | | | | |
| o-Xylene | LCS L | | | | | | | | | | | |
| o-Xylene | %Recovery Q | | Limits | | | | | | | | | |
| o-Xylene Surrogate 4-Bromofluorobenzene (Surr) | %Recovery 112 | | Limits 70 _ 130 | | | | | | | | | |
| o-Xylene Surrogate 4-Bromofluorobenzene (Surr) | %Recovery Q | | Limits | | | | | | | | | |
| D-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-172 | <u>%Recovery</u> <u>Q</u> 112 94 | | Limits 70 _ 130 | | | | Clie | ent | Sam | ple ID: La | ab Control San | - |
| o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-172 Matrix: Solid | <u>%Recovery</u> <u>Q</u> 112 94 | | Limits 70 _ 130 | | | | Clie | ent | Sam | ple ID: La | Prep Type: | Total/N |
| o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-172 Matrix: Solid | <u>%Recovery</u> <u>Q</u> 112 94 | | <u>Limits</u> 70 - 130 70 - 130 | | | | Clie | ent | Sam | ple ID: La | Prep Type: Prep Batc | Total/N/ h: 1721 |
| m-Xylene & p-Xylene o-Xylene 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17325 Analyte | <u>%Recovery</u> <u>Q</u> 112 94 | | Limits 70 _ 130 | | D LCS It Qua | | Clie | ənt | Sam | ple ID: La %Rec | Prep Type: | Total/N/ h: 1721 RPI |

QC Sample Results

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 17218

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

| Lab Sample ID: LCSD 880-17 | 218/2-A | | | | | Clie | nt Sam | ple ID: I | Lab Contro | I Sampl | e Dup |
|-----------------------------|-----------|-----------|----------|--------|-----------|-------|--------|-----------|------------|----------|--------|
| Matrix: Solid | | | | | | | | | Prep 1 | Type: To | tal/NA |
| Analysis Batch: 17325 | | | | | | | | | Prep | Batch: | 17218 |
| | | | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Toluene | | | 0.100 | 0.1007 | | mg/Kg | | 101 | 70 - 130 | 7 | 35 |
| Ethylbenzene | | | 0.100 | 0.1039 | | mg/Kg | | 104 | 70 - 130 | 3 | 35 |
| m-Xylene & p-Xylene | | | 0.200 | 0.2066 | | mg/Kg | | 103 | 70 - 130 | 6 | 35 |
| o-Xylene | | | 0.100 | 0.1011 | | mg/Kg | | 101 | 70 - 130 | 5 | 35 |
| | LCSD | LCSD | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 110 | | 70 - 130 | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 | | | | | | | | |

Lab Sample ID: 880-10289-A-115-F MS Matrix: Solid

Analysis Batch: 17325

| Analysis Batch: 17325 | | | | | | | | | Prep | Batch: 17218 |
|-----------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|--------------|
| | Sample | Sample | Spike | MS | MS | | | | %Rec. | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00200 | U F2 F1 | 0.101 | 0.03789 | F1 | mg/Kg | | 38 | 70 - 130 | |
| Toluene | <0.00200 | U F2 F1 | 0.101 | 0.04071 | F1 | mg/Kg | | 40 | 70 - 130 | |
| Ethylbenzene | <0.00200 | U F2 F1 | 0.101 | 0.03994 | F1 | mg/Kg | | 40 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00400 | U F2 F1 | 0.201 | 0.07742 | F1 | mg/Kg | | 38 | 70 - 130 | |
| o-Xylene | <0.00200 | U F2 F1 | 0.101 | 0.04275 | F1 | mg/Kg | | 42 | 70 - 130 | |

| | MS | MS | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 110 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 |

Lab Sample ID: 880-10289-A-115-G MSD Matrix: Solid

Analysis Batch: 17325

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD |
|---------------------|-----------|-----------|--------|---------|-----------|-------|---|------|---------------------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | <0.00200 | U F2 F1 | 0.100 | 0.02260 | F2 F1 | mg/Kg | | 23 | 70 - 130 | 51 | 35 |
| Toluene | <0.00200 | U F2 F1 | 0.100 | 0.01774 | F2 F1 | mg/Kg | | 18 | 70 - 130 | 79 | 35 |
| Ethylbenzene | <0.00200 | U F2 F1 | 0.100 | 0.02099 | F2 F1 | mg/Kg | | 21 | 70 - 130 | 62 | 35 |
| m-Xylene & p-Xylene | <0.00400 | U F2 F1 | 0.200 | 0.04615 | F2 F1 | mg/Kg | | 23 | 70 - 130 | 51 | 35 |
| o-Xylene | <0.00200 | U F2 F1 | 0.100 | 0.02730 | F2 F1 | mg/Kg | | 27 | 70 ₋ 130 | 44 | 35 |
| | MSD | MSD | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |

70 - 130

70 - 130

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

88

82

| Lab Sample ID: MB 880-17278/1-A Matrix: Solid Analysis Batch: 17438 | МВ | мв | | | | | Client Sa | mple ID: Metho Prep Type: ٦ Prep Batcl | Total/NA |
|---|--------|-----------|------|-----|-------|---|----------------|--|----------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | <50.0 | U | 50.0 | | mg/Kg | | 01/19/22 13:54 | 01/21/22 11:45 | 1 |
| (GRO)-C6-C10 | | | | | | | | | |

Client: WSP USA Inc.

Project/Site: RDX 17-26

QC Sample Results

Job ID: 890-1844-1 SDG: Rural Eddy County

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

| Lab Sample ID: MB 880-17278 | /1-A | | | | | | | | | Client Sa | ample ID: | | |
|---|--|---------------------------------------|--|---|--------------------|--------|--|-------|------------|---|---|-------------------------------------|---|
| Matrix: Solid Analysis Batch: 17438 | | | | | | | | | | | | Type: To Batch: | |
| Analysis Batch: 17430 | MB | мв | | | | | | | | | Frep | Datch. | 1/2/0 |
| Analyte | | Qualifier | RL | | MDL | Unit | | D | Pre | epared | Analyz | zed | Dil Fac |
| Diesel Range Organics (Over | <50.0 | | 50.0 | | | mg/Kg | | | | 0/22 13:54 | | | 1 |
| C10-C28) | | | | | | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | | mg/Kg | | C | 01/19 | 9/22 13:54 | 01/21/22 | 11:45 | 1 |
| | MB | MB | | | | | | | | | | | |
| Surrogate | %Recovery | | Limits | | | | | | Pr | epared | Analyz | zed | Dil Fac |
| 1-Chlorooctane | 92 | | 70 - 130 | | | | | (| | 9/22 13:54 | | | 1 |
| o-Terphenyl | 109 | | 70 - 130 | | | | | (| 01/19 | 9/22 13:54 | 01/21/22 | 11:45 | 1 |
| | | | | | | | | | | | | | |
| Lab Sample ID: LCS 880-1727 | 8/2-A | | | | | | | Cli | ent | Sample | ID: Lab Co | | |
| Matrix: Solid | | | | | | | | | | | | Гуре: То | |
| Analysis Batch: 17438 | | | | | | | | | | | | Batch: | : 17278 |
| | | | Spike | | LCS | | | | _ | ~ = | %Rec. | | |
| Analyte | | | Added | Result | Qual | lifier | Unit | | D | %Rec | Limits | | |
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 980.3 | | | mg/Kg | | | 98 | 70 - 130 | | |
| Diesel Range Organics (Over | | | 1000 | 923.6 | | | mg/Kg | | | 92 | 70 - 130 | | |
| C10-C28) | | | | | | | | | | | | | |
| | LCS LCS | 5 | | | | | | | | | | | |
| • • • | %Recovery Qua | alifier | Limits | | | | | | | | | | |
| Surrogate | | | | | | | | | | | | | |
| Surrogate 1-Chlorooctane | <u>99</u> | | 70 - 130 | | | | | | | | | | |
| | 99 104 | | 70 - 130 70 - 130 | | | | Cli | ənt S | Samı | ple ID: L | _ab Contro | ol Samp | le Dup |
| 1-Chlorooctane o-Terphenyl | 99 104 | | 70 - 130 | | | | Cli | ent S | Samı | ple ID: L | Prep 1 Prep | ol Samp Type: To Batch: | otal/NA : 17278 |
| 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17438 | 99 104 | | 70 - 130 Spike | LCSD | | | | | | - | Prep 1 Prep %Rec. | Type: To Batch: | otal/NA 17278 RPD |
| 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17438 Analyte | 99 104 | | 70 - 130 Spike Added | Result | | | Unit | | Samı D | %Rec | Prep 1 Prep %Rec. Limits | RPD | tal/NA 17278 RPD Limit |
| 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics | 99 104 | | 70 - 130 Spike | | | | | | | - | Prep 1 Prep %Rec. | Type: To Batch: | tal/NA 17278 RPD Limit |
| 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17438 Analyte | 99 104 | | 70 - 130 Spike Added | Result | | | Unit | | | %Rec | Prep 1 Prep %Rec. Limits | RPD | tal/NA 17278 RPD Limit |
| 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics (GRO)-C6-C10 | 99 104 | | 70 - 130 Spike Added 1000 | Result 995.1 | | | Unit mg/Kg | | | %Rec | Prep 1 Prep %Rec. Limits 70 - 130 | Type: To Batch: RPD 1 | tal/NA 17278 RPD Limit |
| 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | 99 104 | | 70 - 130 Spike Added 1000 | Result 995.1 | | | Unit mg/Kg | | | %Rec | Prep 1 Prep %Rec. Limits 70 - 130 | Type: To Batch: RPD 1 | tal/NA 17278 RPD Limit |
| 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | 99 104 78/3-A | | 70 - 130 Spike Added 1000 | Result 995.1 | | | Unit mg/Kg | | | %Rec | Prep 1 Prep %Rec. Limits 70 - 130 | Type: To Batch: RPD 1 | tal/NA 17278 RPD Limit |
| 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | 99 104 78/3-A | | 70 - 130 Spike Added 1000 | Result 995.1 | | | Unit mg/Kg | | | %Rec | Prep 1 Prep %Rec. Limits 70 - 130 | Type: To Batch: RPD 1 | tal/NA 17278 RPD Limit |
| 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate | 99 104 78/3-A | | 70 - 130 Spike Added 1000 1000 Limits | Result 995.1 | | | Unit mg/Kg | | | %Rec | Prep 1 Prep %Rec. Limits 70 - 130 | Type: To Batch: RPD 1 | tal/NA 17278 RPD Limit |
| 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl | 99 104 78/3-A | | 70 - 130 Spike Added 1000 1000 Limits 70 - 130 | Result 995.1 | | | Unit mg/Kg | | | %Rec 100 94 | Prep 1 Prep %Rec. Limits 70 - 130 70 - 130 | Type: To Batch: | tal/NA 17278 RPD Limit 20 |
| 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1838-A-1-I | 99 104 78/3-A | | 70 - 130 Spike Added 1000 1000 Limits 70 - 130 | Result 995.1 | | | Unit mg/Kg | | | %Rec 100 94 | Prep 1 %Rec. Limits 70 - 130 70 - 130 | Type: To Batch: RPD 1 2 | tal/NA 17278 RPD Limit 20 20 |
| 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1838-A-1-I Matrix: Solid | 99 104 78/3-A | | 70 - 130 Spike Added 1000 1000 Limits 70 - 130 | Result 995.1 | | | Unit mg/Kg | | | %Rec 100 94 | Prep 1 Prep %Rec. Limits 70 - 130 70 - 130 Sample ID Prep 1 | Type: To Batch: | tal/NA 17278 RPD Limit 20 20 20 |
| 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1838-A-1-I | 99 104 78/3-A | SD alifier | 70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130 | Result 995.1 938.2 | | | Unit mg/Kg | | | %Rec 100 94 | Prep 1 Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 Prep 1 Prep 1 | Type: To Batch: RPD 1 2 | tal/NA 17278 RPD Limit 20 20 20 |
| 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1838-A-1-I Matrix: Solid | 99 104 78/3-A | SD alifier | 70 - 130 Spike Added 1000 1000 Limits 70 - 130 | Result 995.1 938.2 | Qual | lifier | Unit mg/Kg | | | %Rec 100 94 | Prep 1 Prep %Rec. Limits 70 - 130 70 - 130 Sample ID Prep 1 | Type: To Batch: | tal/NA 17278 RPD Limit 20 20 20 |
| 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1838-A-1-I Matrix: Solid Analysis Batch: 17438 | 99 104 78/3-A <i>LCSD LCS</i> %Recovery Qua 99 105 F MS Sample San | SD alifier | 70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130 Spike | Result 995.1 938.2 MS | Qual MS Qual | lifier | Unit mg/Kg mg/Kg | | <u>D</u> - | %Rec 100 94 | Prep 1 Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep 1 Prep 1 Prep 2 %Rec. | Type: To Batch: | tal/NA 17278 RPD Limit 20 20 20 |
| 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1838-A-1-I Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics (GRO)-C6-C10 | 99 104 78/3-A | SD alifier | 70 - 130 Spike Added 1000 1000 1000 1000 1000 5pike Added 997 | Result 995.1 938.2 MS Result 1391 | Qual MS Qual | lifier | Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg | | <u>D</u> - | %Rec 100 94 Client 3 %Rec 136 | Prep 1 Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 %Rec. Prep 1 Prep 2 %Rec. Limits 70 - 130 | Type: To Batch: | tal/NA 17278 RPD Limit 20 20 20 |
| 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1838-A-1-I Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | 99 104 78/3-A <i>LCSD LCS</i> %Recovery Qua 99 105 F MS Sample San Result Qua | SD alifier | 70 - 130 Spike Added 1000 1000 1000 1000 1000 5pike Added Spike Added | Result 995.1 938.2 MS Result | Qual MS Qual | lifier | Unit mg/Kg mg/Kg | | <u>D</u> - | %Rec 100 94 Client \$ | Prep 1 Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 8 8 8 9 9 9 9 8 9 9 9 9 8 9 9 9 9 9 9 | Type: To Batch: | tal/NA 17278 RPD Limit 20 20 20 c Spike otal/NA |
| 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1838-A-1-I Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics (GRO)-C6-C10 | 99 104 78/3-A | SD alifier | 70 - 130 Spike Added 1000 1000 1000 1000 1000 5pike Added 997 | Result 995.1 938.2 MS Result 1391 | Qual MS Qual | lifier | Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg | | <u>D</u> - | %Rec 100 94 Client 3 %Rec 136 | Prep 1 Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 %Rec. Prep 1 Prep 2 %Rec. Limits 70 - 130 | Type: To Batch: | tal/NA 17278 RPD Limit 20 20 20 |
| 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1838-A-1-I Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | 99 104 78/3-A <i>LCSD LCS</i> %Recovery Qua 99 105 F MS Sample San <u>Result Qua</u> <49.9 U | SD alifier nple alifier 1 | 70 - 130 Spike Added 1000 1000 1000 1000 1000 1000 5pike Added 997 997 997 | Result 995.1 938.2 MS Result 1391 | Qual MS Qual | lifier | Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg | | <u>D</u> - | %Rec 100 94 Client 3 %Rec 136 | Prep 1 Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 %Rec. Prep 1 Prep 2 %Rec. Limits 70 - 130 | Type: To Batch: | tal/NA 17278 RPD Limit 20 20 20 |
| 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1838-A-1-I Matrix: Solid Analysis Batch: 17438 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | 99 104 78/3-A <i>LCSD LCS</i> %Recovery Qua 99 105 F MS Sample San <u>Result Qua</u> <49.9 U | SD alifier nple alifier 1 | 70 - 130 Spike Added 1000 1000 1000 1000 1000 5pike Added 997 | Result 995.1 938.2 MS Result 1391 | Qual MS Qual | lifier | Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg | | <u>D</u> - | %Rec 100 94 Client 3 %Rec 136 | Prep 1 Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 %Rec. Prep 1 Prep 2 %Rec. Limits 70 - 130 | Type: To Batch: | tal/NA 17278 RPD Limit 20 20 20 |

Client: WSP USA Inc.

Project/Site: RDX 17-26

Job ID: 890-1844-1 SDG: Rural Eddy County

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

| | SD | | | | | | | Cile | 111 36 | ampie IL | D: Matrix Sp | | |
|---|--|--------------------------|--|------|--|----------------------------|------------------------|----------|----------|------------------------------|---|---------------------------------|--|
| Matrix: Solid | | | | | | | | | | | | Гуре: То | |
| Analysis Batch: 17438 | | | | | | | | | | | - | Batch: | |
| | • | Sample | Spike | | | MSD | | | | | %Rec. | | RPD |
| Analyte | | Qualifier | Added | | | Qualifie | er Unit | | D | %Rec | Limits | RPD | Limi |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U F1 | 996 | | 1250 | | mg/K | g | | 122 | 70 - 130 | 11 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 996 | | 1250 | | mg/K | g | | 123 | 70 - 130 | 9 | 2 |
| | MSD | MSD | | | | | | | | | | | |
| Surrogate % | Recovery | Qualifier | Limits | | | | | | | | | | |
| 1-Chlorooctane | 77 | | 70 - 130 | | | | | | | | | | |
| o-Terphenyl | 76 | | 70 - 130 | | | | | | | | | | |
| lethod: 300.0 - Anions, Ion C | hromat | ography | | | | | | | | | | | |
| Lab Sample ID: MB 880-17337/1-A Matrix: Solid | | | | | | | | | | Client S | Sample ID: | Method Type: S | |
| Analysis Batch: 17523 | | MB MB | | | | | | | | | Trop | Type: O | orabi |
| Analysis | | MB MB esult Qualifier | | RL | | MDL U | | _ | _ | repared | Analua | | Dil Fa |
| Analyte Chloride | | <5.00 U | | 5.00 | | | g/Kg | <u>D</u> | P | repared | Analyz 01/22/22 | | рії га |
| Matrix: Solid Analysis Batch: 17523 | | | Spike | | 109 | LCS | | | | | %Rec. | Type: S | olubi |
| Analyte | | | Added | | | Qualifie | er Unit | | D | %Rec | Limits | | |
| Chloride | | | 250 | | 258.4 | quanna | mg/K | a | | 103 | 90 - 110 | | |
| | | | 200 | | 200 | | | 9 | | | 00-110 | | |
| Lab Sample ID: LCSD 880-17337/3 | -A | | | | | | | Client | Sam | ple ID: | Lab Contro | ol Sampl | e Du |
| | | | | | | | | | | | Prep | Type: S | |
| Matrix: Solid | | | 0 | | 1.000 | 1.000 | | | | | | Type: S | olubl |
| Matrix: Solid Analysis Batch: 17523 | | | Spike | | LCSD | | vr Unit | | n | % Poc | %Rec. | | olubi RP |
| Matrix: Solid Analysis Batch: 17523 Analyte | | | Added | I | Result | LCSD Qualifie | | 9 | | %Rec | %Rec. Limits | RPD | olubi RP Lim |
| Matrix: Solid Analysis Batch: 17523 Analyte | | | | | | | er <u>Unit</u> mg/K | g | <u>D</u> | %Rec | %Rec. | | olubi RP |
| Matrix: Solid Analysis Batch: 17523 Analyte Chloride | S | | Added | | Result | | | g | <u>D</u> | 109 | %Rec. Limits 90 - 110 | RPD 5 | olubl RP Lim 2 |
| Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: 890-1843-A-9-D Mi | | | Added | I | Result | | | g | <u>D</u> | 109 | %Rec. Limits 90 - 110 | RPD 5 | olubl RPI Lim 2 Spik |
| Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: 890-1843-A-9-D Matrix: Solid | S | | Added | | Result | | | g | <u>D</u> | 109 | %Rec. Limits 90 - 110 | RPD 5 | olubl RPI Lim 2 Spike |
| Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: 890-1843-A-9-D M Matrix: Solid Analysis Batch: 17523 | | Sample | Added | | Result | Qualifi | | g | <u>D</u> | 109 | %Rec. Limits 90 - 110 | RPD 5 | olubl RPI Lim 2 Spike |
| Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: 890-1843-A-9-D Ma Matrix: Solid Analysis Batch: 17523 | Sample | Sample Qualifier | Added 250 | | Result 271.4 | Qualifi | mg/K | g | D | 109 | %Rec. Limits 90 - 110 Sample ID Prep | RPD 5 | olubl RPI Lim 2 Spik |
| Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: 890-1843-A-9-D M Matrix: Solid Analysis Batch: 17523 Analyte | Sample | - | Added 250 Spike | | Result 271.4 | Qualifie | mg/K | - | | 109 Client | %Rec. Limits 90 - 110 Sample ID Prep %Rec. | RPD 5 | olubl RPI Lim 2 Spike |
| Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: 890-1843-A-9-D M: Matrix: Solid Analysis Batch: 17523 Analyte Chloride | Sample Result 1650 | - | Added 250 Spike Added | | Result 271.4 MS Result | Qualifie | mg/K | g | | 109 Client %Rec 110 | %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110 | 5 : Matrix Type: S | olubi RPI Lim 2 Spike olubi |
| Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: 890-1843-A-9-D M Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: 890-1843-A-9-E M Matrix: Solid | Sample Result 1650 | - | Added 250 Spike Added | | Result 271.4 MS Result | Qualifie | mg/K | g | | 109 Client %Rec 110 | %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110 D: Matrix Sp | 5 : Matrix Type: S | olubi RP Lim 2 Spik olubi |
| Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: 890-1843-A-9-D M Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: 890-1843-A-9-E M | Sample Result 1650 | Qualifier | Added 250 Spike Added 1260 | | Result 271.4 MS Result 3047 | Qualifie MS Qualifie | mg/K | g | | 109 Client %Rec 110 | %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110 D: Matrix Sp Prep | RPD 5 : Matrix Type: S | olubl RPI 2 Spike olubl |
| Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: 890-1843-A-9-D M Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: 890-1843-A-9-E M Matrix: Solid | Sample Result 1650 SD Sample | - | Added 250 Spike Added | | Result 271.4 MS Result 3047 MSD | Qualifie MS Qualifie | er <u>Unit</u> mg/K | g | | 109 Client %Rec 110 | %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110 D: Matrix Sp | RPD 5 : Matrix Type: S | oluble RPI Limi 20 Spike oluble |

QC Association Summary

Client: WSP USA Inc. Project/Site: RDX 17-26 Page 69 of 110

Job ID: 890-1844-1 SDG: Rural Eddy County

GC VOA

Prep Batch: 17131

| ep Batch: 17131 | | | | | |
|---|---|--|--|---|---|
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| MB 880-17131/5-A | Method Blank | Total/NA | Solid | 5035 | |
| rep Batch: 17218 | | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 890-1844-1 | FS02A | Total/NA | Solid | 5035 | |
| MB 880-17218/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-17218/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-17218/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-10289-A-115-F MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-10289-A-115-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |
| | | | | | |
| | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
| Lab Sample ID | Client Sample ID FS02A | Prep Type Total/NA | Matrix Solid | Method 8021B | Prep Batch 17218 |
| Lab Sample ID 890-1844-1 | | | | | |
| Lab Sample ID 890-1844-1 MB 880-17131/5-A | FS02A | Total/NA | Solid | 8021B | 17218 |
| - | FS02A Method Blank | Total/NA Total/NA | Solid Solid | 8021B 8021B | 17218 17131 |
| 890-1844-1 MB 880-17131/5-A MB 880-17218/5-A | FS02A Method Blank Method Blank | Total/NA Total/NA Total/NA | Solid Solid Solid | 8021B 8021B 8021B | 17218 17131 17218 |
| Lab Sample ID 890-1844-1 MB 880-17131/5-A MB 880-17218/5-A LCS 880-17218/1-A | FS02A Method Blank Method Blank Lab Control Sample | Total/NA Total/NA Total/NA Total/NA | Solid Solid Solid Solid | 8021B 8021B 8021B 8021B | 17218 17131 17218 17218 |
| Lab Sample ID 890-1844-1 MB 880-17131/5-A MB 880-17218/5-A LCS 880-17218/1-A LCSD 880-17218/2-A | FS02A Method Blank Method Blank Lab Control Sample Lab Control Sample Dup | Total/NA Total/NA Total/NA Total/NA Total/NA | Solid Solid Solid Solid Solid Solid | 8021B 8021B 8021B 8021B 8021B 8021B | 17218 17131 17218 17218 17218 17218 |
| Lab Sample ID 890-1844-1 MB 880-17131/5-A MB 880-17218/5-A LCS 880-17218/1-A LCSD 880-17218/2-A 880-10289-A-115-F MS | FS02A Method Blank Method Blank Lab Control Sample Lab Control Sample Dup Matrix Spike | Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA | Solid Solid Solid Solid Solid Solid | 8021B 8021B 8021B 8021B 8021B 8021B 8021B | 17218 17131 17218 17218 17218 17218 17218 |
| Lab Sample ID 890-1844-1 MB 880-17131/5-A MB 880-17218/5-A LCS 880-17218/1-A LCSD 880-17218/2-A 880-10289-A-115-F MS 880-10289-A-115-G MSD | FS02A Method Blank Method Blank Lab Control Sample Lab Control Sample Dup Matrix Spike | Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA | Solid Solid Solid Solid Solid Solid | 8021B 8021B 8021B 8021B 8021B 8021B 8021B | 17218 17131 17218 17218 17218 17218 17218 |

GC Semi VOA

Prep Batch: 17278

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-1844-1 | FS02A | Total/NA | Solid | 8015NM Prep | |
| MB 880-17278/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-17278/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-17278/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-1838-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-1838-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 17438

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-----------|--------|----------|------------|
| 890-1844-1 | FS02A | Total/NA | Solid | 8015B NM | 17278 |
| MB 880-17278/1-A | Method Blank | Total/NA | Solid | 8015B NM | 17278 |
| LCS 880-17278/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 17278 |
| LCSD 880-17278/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 17278 |
| 890-1838-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015B NM | 17278 |
| 890-1838-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 17278 |
| Analysis Batch: 17641 | | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 890-1844-1 | FS02A | Total/NA | Solid | 8015 NM | |

QC Association Summary

Client: WSP USA Inc. Project/Site: RDX 17-26

Job ID: 890-1844-1 SDG: Rural Eddy County

HPLC/IC

Leach Batch: 17337

| each Batch: 17337 | | | | | |
|---|---|-------------------------------|-------------------------|-------------------------|----------------------------------|
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 890-1844-1 | FS02A | Soluble | Solid | DI Leach | |
| MB 880-17337/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-17337/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-17337/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-1843-A-9-D MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-1843-A-9-E MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |
| Lah Sample ID | Client Sample ID | Prep Type | Matrix | wernoa | Prep Batch |
| | | | Mar Andres | Mar Alla and | |
| | Client Sample ID FS02A | Prep Type Soluble | Matrix Solid | Method 300.0 | Prep Batch 17337 |
| 890-1844-1 | | | | | |
| 390-1844-1 MB 880-17337/1-A | FS02A | Soluble | Solid | 300.0 | 17337 |
| 890-1844-1 MB 880-17337/1-A LCS 880-17337/2-A | FS02A Method Blank | Soluble | Solid Solid | 300.0 300.0 | 17337 17337 17337 |
| Lab Sample ID 890-1844-1 MB 880-17337/1-A LCS 880-17337/2-A LCSD 880-17337/3-A 890-1843-A-9-D MS | FS02A Method Blank Lab Control Sample | Soluble Soluble Soluble | Solid Solid Solid | 300.0 300.0 300.0 | 17337 17337 17337 17337 |

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1844-1 | FS02A | Soluble | Solid | 300.0 | 17337 |
| MB 880-17337/1-A | Method Blank | Soluble | Solid | 300.0 | 17337 |
| LCS 880-17337/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 17337 |
| LCSD 880-17337/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 17337 |
| 890-1843-A-9-D MS | Matrix Spike | Soluble | Solid | 300.0 | 17337 |
| 890-1843-A-9-E MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 17337 |

Eurofins Carlsbad

Released to Imaging: 5/4/2022 11:52:07 AM

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Initial

Amount

5.03 g

5 mL

10.01 g

5.05 g

Final

Amount

5 mL

5 mL

10 mL

50 mL

Batch

17218

17325

17647

17641

17278

17438

17337

17523

Number

Prepared

or Analyzed

01/19/22 13:45

01/21/22 02:19

01/24/22 17:08

01/24/22 16:33

01/19/22 13:54

01/21/22 20:34

01/20/22 09:19

01/22/22 21:40

Dil

1

1

1

1

5

Factor

Run

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Client Sample ID: FS02A Date Collected: 01/13/22 09:02 Date Received: 01/18/22 13:55

| Page | 71 | of | 11 | 0 |
|------|----|----|----|---|
|------|----|----|----|---|

Job ID: 890-1844-1 SDG: Rural Eddy County

Lab

XEN MID

1

Lab Sample ID: 890-1844-1 Matrix: Solid

Analyst

KL

KL

AJ

AJ

DM

AJ

СН

СН

Solid

Laboratory References:

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

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: RDX 17-26 Job ID: 890-1844-1 SDG: Rural Eddy County

Laboratory: Eurofins Midland

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

| uthority | Pr | ogram | Identification Number | Expiration Date |
|------------------------|---------------------------------|---------------------------------|--|----------------------------|
| exas | NE | ELAP | T104704400-21-22 | 06-30-22 |
| The following analytes | are included in this report, bu | ut the laboratory is not certif | ied by the governing authority. This list ma | ay include analytes for wh |
| the agency does not c | | | | |
| the agency does not o | ffer certification. Prep Method | Matrix | Analyte | |
| 0 , | | Matrix Solid | Analyte Total TPH | |

Eurofins Carlsbad

Released to Imaging: 5/4/2022 11:52:07 AM

10
Method Summary

Client: WSP USA Inc. Project/Site: RDX 17-26

Job ID: 890-1844-1 SDG: Rural Eddy County

| lethod | Method Description | Protocol | Laboratory |
|------------|------------------------------------|----------|------------|
| 8021B | Volatile Organic Compounds (GC) | SW846 | XEN MID |
| otal BTEX | Total BTEX Calculation | TAL SOP | XEN MID |
| 8015 NM | Diesel Range Organics (DRO) (GC) | SW846 | XEN MID |
| 8015B NM | Diesel Range Organics (DRO) (GC) | SW846 | XEN MID |
| 800.0 | Anions, Ion Chromatography | MCAWW | XEN MID |
| 6035 | Closed System Purge and Trap | SW846 | XEN MID |
| 015NM Prep | Microextraction | SW846 | XEN MID |
| I Leach | Deionized Water Leaching Procedure | ASTM | XEN MID |

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc. Project/Site: RDX 17-26 Job ID: 890-1844-1 SDG: Rural Eddy County

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth | |
|---------------|------------------|--------|----------------|----------------|-------|----|
| 890-1844-1 | FS02A | Solid | 01/13/22 09:02 | 01/18/22 13:55 | 0.75 | 4 |
| | | | | | | 5 |
| | | | | | | |
| | | | | | | |
| | | | | | | 8 |
| | | | | | | 9 |
| | | | | | | |
| | | | | | | |
| | | | | | | 12 |
| | | | | | | 13 |
| | | | | | | |

| ting Chain of Custody Houston, TX (28) 240-4200, Dallas, TX (219) 509-3334 Houston, TX (28) 240-4200, Dallas, TX (210) 509-3334 Reliand, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Houston, TX (32) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Houston, TX (32) 704-5440, San Antonio, TX (210) 509-3334 Ell Lo: (If different) Tim Company Name: Due Date: Moutine Due Due Date: Moutine Due Date: Due Moutine Due Moutine Due </th |
|--|
| |

4 5 6

Job Number: 890-1844-1 SDG Number: Rural Eddy County List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1844 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 | |

14

Job Number: 890-1844-1 SDG Number: Rural Eddy County List Source: Eurofins Midland

List Creation: 01/19/22 01:26 PM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1844 List Number: 2 Creator: Kramer, Jessica

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

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

Received by OCD: 3/31/2022 11:00:09 AM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1845-1

Laboratory Sample Delivery Group: Rural Eddy County Client Project/Site: RDX 17-26

For:

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

Attn: Joseph Hernandez

RAMER

Authorized for release by: 1/26/2022 5:48:35 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.

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Laboratory Job ID: 890-1845-1 SDG: Rural Eddy County

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Client: WSP USA Inc. Project/Site: RDX 17-26 Job ID: 890-1845-1 SDG: Rural Eddy County

| Quantoro | | 3 |
|--------------|--|-----|
| GC VOA | | |
| Qualifier | Qualifier Description | |
| F1 | MS and/or MSD recovery exceeds control limits. | |
| F2 | MS/MSD RPD exceeds control limits | 5 |
| S1+ | Surrogate recovery exceeds control limits, high biased. | |
| U | Indicates the analyte was analyzed for but not detected. | |
| GC Semi VOA | | |
| Qualifier | Qualifier Description | |
| *1 | LCS/LCSD RPD exceeds control limits. | |
| F1 | MS and/or MSD recovery exceeds control limits. | 8 |
| U | Indicates the analyte was analyzed for but not detected. | |
| HPLC/IC | | 9 |
| Qualifier | Qualifier Description | |
| F1 | MS and/or MSD recovery exceeds control limits. | |
| U | Indicates the analyte was analyzed for but not detected. | |
| Glossary | | |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | |
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis | |
| %R | Percent Recovery | 4.0 |
| CFL | Contains Free Liquid | 13 |
| CFU | Colony Forming Unit | |
| | | |

| 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 | |

Job ID: 890-1845-1 SDG: Rural Eddy County

Job ID: 890-1845-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1845-1

Receipt

The samples were received on 1/18/2022 1:54 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 1.2°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-17332 and analytical batch 880-17331 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28)

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17332 and analytical batch 880-17331 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-17555 and analytical batch 880-17726 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

RL

MDL Unit

D

Prepared

Job ID: 890-1845-1 SDG: Rural Eddy County

Client Sample ID: PH01

Client: WSP USA Inc.

Project/Site: RDX 17-26

Date Collected: 01/13/22 08:50 Date Received: 01/18/22 13:54

| Lab | Sample | ID: | 890-1 | 845-1 |
|-----|--------|-----|-------|-------|

Analyzed

Matrix: Solid

| 845-1 Solid | |
|----------------|----|
| | |
| | 5 |
| Dil Fac 1 | |
| 1 | |
| 1 1 | 8 |
| Dil Fac | 9 |
| 1 1 | |
| Dil Fac | |
| 1 | |
| Dil Fac | 13 |
| 1 | |

Sample Depth: 0.5 Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier

| Analyte | Result | Qualifier | RL | MDL | Unit | U | Prepared | Analyzed | Dii Fac |
|--|--------------------------------|-------------------------------|-------------------------------|-----|-------------------------|----------|--|--|-------------|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 04:10 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 04:10 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 04:10 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 04:10 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 04:10 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 04:10 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 122 | | 70 - 130 | | | | 01/19/22 13:45 | 01/21/22 04:10 | 1 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | | | | 01/19/22 13:45 | 01/21/22 04:10 | 1 |
| Method: Total BTEX - Total BTEX | Calculation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/24/22 17:08 | 1 |
| Method: 8015 NM - Diesel Range | Organics (DR | O) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 01/24/22 16:33 | 1 |
| Method: 8015B NM - Diesel Rang | e Organics (D | RO) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/20/22 08:47 | 01/21/22 01:32 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U *1 | 50.0 | | mg/Kg | | 01/20/22 08:47 | 01/21/22 01:32 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/20/22 08:47 | 01/21/22 01:32 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 94 | | 70 - 130 | | | | 01/20/22 08:47 | 01/21/22 01:32 | 1 |
| o-Terphenyl | 96 | | 70 - 130 | | | | 01/20/22 08:47 | 01/21/22 01:32 | 1 |
| Method: 300.0 - Anions, Ion Chro | | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | | D | Prepared | Analyzed | Dil Fac |
| Chloride | 95.7 | | 5.04 | | mg/Kg | | | 01/22/22 21:47 | 1 |
| lient Sample ID: PH01 | | | | | | | Lab Sar | nple ID: 890- | 1845-2 |
| ate Collected: 01/13/22 08:52 | | | | | | | | Matri | x: Solid |
| ate Received: 01/18/22 13:54 | | | | | | | | | |
| ample Depth: 1 | | | | | | | | | |
| • • | Compounde | (GC) | | | | | | | |
| Method: 8021B - Volatile Organic | | GC) Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Method: 8021B - Volatile Organic | | Qualifier | RL 0.00199 | MDL | Unit mg/Kg | <u>D</u> | Prepared 01/19/22 13:45 | Analyzed 01/21/22 04:30 | Dil Fac |
| Method: 8021B - Volatile Organic Analyte Benzene | Result | Qualifier U | | MDL | | <u>D</u> | | | |
| Method: 8021B - Volatile Organic Analyte Benzene Toluene | Result <0.00199 | Qualifier U U | 0.00199 | MDL | mg/Kg | <u>D</u> | 01/19/22 13:45 | 01/21/22 04:30 | |
| Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene | Result <0.00199 <0.00199 | Qualifier U U U | 0.00199 | MDL | mg/Kg mg/Kg | <u> </u> | 01/19/22 13:45 01/19/22 13:45 | 01/21/22 04:30 01/21/22 04:30 | 1 |
| Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene | Result <0.00199 | Qualifier U U U U | 0.00199 0.00199 0.00199 | MDL | mg/Kg mg/Kg mg/Kg | <u> </u> | 01/19/22 13:45 01/19/22 13:45 01/19/22 13:45 | 01/21/22 04:30 01/21/22 04:30 01/21/22 04:30 | 1 1 1 |

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Surrogate

4-Bromofluorobenzene (Surr)

Limits

70 - 130

%Recovery Qualifier

128

5

Client Sample Results

Job ID: 890-1845-1 SDG: Rural Eddy County

Client Sample ID: PH01

Date Collected: 01/13/22 08:52 Date Received: 01/18/22 13:54

Sample Depth: 1

Client: WSP USA Inc.

Project/Site: RDX 17-26

| Lab Sample ID: 890-1845-2 |
|---------------------------|
| Matrix: Solid |
| |
| |

| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fa |
|---|---------------|-----------|----------|-----|-------|---|----------------|----------------|--------|
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | | | | 01/19/22 13:45 | 01/21/22 04:30 | |
| Method: Total BTEX - Total BTEX | Calculation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/24/22 17:08 | |
| Method: 8015 NM - Diesel Range | Organics (DR | 0) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 01/24/22 16:33 | |
| Method: 8015B NM - Diesel Rang | e Organics (D | RO) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/20/22 08:47 | 01/21/22 01:53 | |
| Diesel Range Organics (Over | <49.9 | U *1 | 49.9 | | mg/Kg | | 01/20/22 08:47 | 01/21/22 01:53 | |
| C10-C28) Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/20/22 08:47 | 01/21/22 01:53 | |
| | 1010 | C C | 1010 | | | | 0 | 0.12.122.01.00 | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fa |
| 1-Chlorooctane | 91 | | 70 - 130 | | | | 01/20/22 08:47 | 01/21/22 01:53 | |
| o-Terphenyl | 93 | | 70 - 130 | | | | 01/20/22 08:47 | 01/21/22 01:53 | |
| Method: 300.0 - Anions, Ion Chro | matography - | Soluble | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| Chloride | 80.0 | | 24.9 | | mg/Kg | | | 01/26/22 15:58 | : |
| lient Sample ID: PH02 | | | | | | | l ah San | nple ID: 890- | 18/5 |

Date Received: 01/18/22 13:54 Sample Depth: 0.5

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 04:50 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 04:50 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 04:50 | 1 |
| m-Xylene & p-Xylene | <0.00397 | U | 0.00397 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 04:50 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 04:50 | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 04:50 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 125 | | 70 - 130 | | | | 01/19/22 13:45 | 01/21/22 04:50 | 1 |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 | | | | 01/19/22 13:45 | 01/21/22 04:50 | 1 |
| Method: Total BTEX - Total B | EX Calculation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00397 | U | 0.00397 | | mg/Kg | | | 01/24/22 17:08 | 1 |
| Method: 8015 NM - Diesel Rar | nge Organics (DR | O) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <50.0 | | 50.0 | | mg/Kg | | | 01/24/22 16:33 | |

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

<50.0 U

<50.0 U

%Recovery Qualifier

91

93

240

Result Qualifier

<50.0 U*1

Client Sample Results

RL

50.0

50.0

50.0

RL

4.99

Limits

70 - 130

70 - 130

MDL Unit

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

D

Prepared

01/20/22 08:47

01/20/22 08:47

01/20/22 08:47

Prepared

01/20/22 08:47

01/20/22 08:47

Prepared

| Job ID: 890-1845-1 |
|------------------------|
| SDG: Rural Eddy County |

Client Sample ID: PH02

Client: WSP USA Inc. Project/Site: RDX 17-26

Sample Depth: 0.5

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Analyte

C10-C28)

Surrogate 1-Chlorooctane

o-Terphenyl

Analyte

Chloride

(GRO)-C6-C10

Date Collected: 01/13/22 09:30 Date Received: 01/18/22 13:54

Lab Sample ID: 890-1845-3 Matrix: Solid

Analyzed

01/21/22 02:13

01/21/22 02:13

01/21/22 02:13

Analyzed

01/21/22 02:13

01/21/22 02:13

Analyzed

01/22/22 18:37

5

Dil Fac

1

1

1

1

1

Dil Fac

Dil Fac 1 Lab Sample ID: 890-1845-4

Matrix: Solid

| Date Received: | 01/18/22 | 13:54 |
|----------------|----------|-------|
| Sample Depth: | 1 | |

Client Sample ID: PH02

Date Collected: 01/13/22 09:32

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | < 0.00199 | U | 0.00199 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 05:11 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 05:11 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 05:11 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 05:11 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 05:11 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 05:11 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 129 | | 70 - 130 | | | | 01/19/22 13:45 | 01/21/22 05:11 | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | | | | 01/19/22 13:45 | 01/21/22 05:11 | 1 |
| Method: Total BTEX - Total BTEX | Calculation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/24/22 17:08 | 1 |
| Method: 8015 NM - Diesel Range | Organics (DR | O) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 01/24/22 16:33 | 1 |
| Method: 8015B NM - Diesel Rang | e Organics (D | RO) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/20/22 08:47 | 01/21/22 02:34 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U *1 | 50.0 | | mg/Kg | | 01/20/22 08:47 | 01/21/22 02:34 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/20/22 08:47 | 01/21/22 02:34 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 108 | | 70 - 130 | | | | 01/20/22 08:47 | 01/21/22 02:34 | 1 |
| o-Terphenyl | 113 | | 70 - 130 | | | | 01/20/22 08:47 | 01/21/22 02:34 | 1 |

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Released to Imaging: 5/4/2022 11:52:07 AM

| | | Clien | t Sample R | Results | ; | | | | |
|---|----------------|-----------|------------|---------|-------|---|----------------|----------------|-----------|
| Client: WSP USA Inc. | | | | | | | | Job ID: 890 |)-1845-1 |
| Project/Site: RDX 17-26 SDG: Rural Eddy Coun | | | | | | | | / County | |
| Client Sample ID: PH02 | | | | | | | Lab Sar | nple ID: 890- | 1845-4 |
| Date Collected: 01/13/22 09:32 | | | | | | | | Matri | ix: Solid |
| Date Received: 01/18/22 13:54 | | | | | | | | | |
| Sample Depth: 1 | | | | | | | | | |
| Method: 300.0 - Anions, Ion Chr | omatography - | Solublo | | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 158 | | 4.98 | | mg/Kg | | | 01/22/22 18:49 | 1 |
| Client Sample ID: PH03 | | | | | | | Lab Sar | nple ID: 890- | 1845-5 |
| Date Collected: 01/13/22 11:02 | | | | | | | | | ix: Solid |
| Date Received: 01/18/22 13:54 | | | | | | | | | |
| Sample Depth: 0.5 | | | | | | | | | |
| | | | | | | | | | |
| Method: 8021B - Volatile Organi | c Compounds (| (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 05:31 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 05:31 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 05:31 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 05:31 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 05:31 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 05:31 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 122 | | 70 - 130 | | | | 01/19/22 13:45 | 01/21/22 05:31 | 1 |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 | | | | 01/19/22 13:45 | 01/21/22 05:31 | 1 |
| Method: Total BTEX - Total BTE | X Calculation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 01/24/22 17:08 | 1 |
| Method: 8015 NM - Diesel Rang | e Organics (DR | O) (GC) | | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 01/24/22 16:33 | 1 |
| Method: 8015B NM - Diesel Ran | ge Organics (D | RO) (GC) | | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/20/22 08:47 | 01/21/22 02:54 | 1 |
| Diesel Range Organics (Over | <50.0 | U *1 | 50.0 | | mg/Kg | | 01/20/22 08:47 | 01/21/22 02:54 | 1 |
| C10-C28) Oll Range Organics (Over C28-C36) | <50.0 | | 50.0 | | ma/Ka | | 01/20/22 08:47 | 01/21/22 02:54 | 1 |
| On Mange Organics (Over 020-030) | ~50.0 | 5 | 50.0 | | mg/Kg | | 01120122 00.41 | 01121122 02.04 | I |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 93 | | 70 - 130 | | | | 01/20/22 08:47 | 01/21/22 02:54 | 1 |
| o-Terphenyl | 95 | | 70 - 130 | | | | 01/20/22 08:47 | 01/21/22 02:54 | 1 |
| Method: 300.0 - Anions, Ion Chr | omatography - | Soluble | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 119 | | 5.00 | | mg/Kg | | | 01/22/22 19:00 | 1 |

Method: 8021B - Volatile Organic Compounds (GC)

Job ID: 890-1845-1 SDG: Rural Eddy County

Client Sample ID: PH03

Date Collected: 01/13/22 11:05 Date Received: 01/18/22 13:54

Sample Depth: 1

Client: WSP USA Inc.

Project/Site: RDX 17-26

Matrix: Solid

| ty | |
|-----------------------|----|
| 6 d | |
| | |
| | 5 |
| ac 1 1 | |
| 1 | |
| 1 1 1 1 1 | 8 |
| ac | 9 |
| ac 1 1 | |
| ac | |
| 1 | |
| ac | 13 |
| 1 | |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------|-----------|----------|-----|-------|---|----------------|----------------|----------|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 05:52 | 1 |
| Foluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 05:52 | |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 05:52 | |
| n-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 05:52 | |
| -Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 05:52 | |
| (ylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 05:52 | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fa |
| I-Bromofluorobenzene (Surr) | 130 | | 70 - 130 | | | | 01/19/22 13:45 | 01/21/22 05:52 | |
| ,4-Difluorobenzene (Surr) | 104 | | 70 - 130 | | | | 01/19/22 13:45 | 01/21/22 05:52 | |
| Method: Total BTEX - Total BTEX | (Calculation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| otal BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/24/22 17:08 | |
| Method: 8015 NM - Diesel Range | Organics (DR | O) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| otal TPH | <50.0 | U | 50.0 | | mg/Kg | | | 01/24/22 16:33 | |
| Aethod: 8015B NM - Diesel Rang | ae Organics (D | RO) (GC) | | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| Basoline Range Organics GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/20/22 08:47 | 01/21/22 03:14 | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U *1 | 50.0 | | mg/Kg | | 01/20/22 08:47 | 01/21/22 03:14 | |
| DII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/20/22 08:47 | 01/21/22 03:14 | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fa |
| -Chlorooctane | 91 | | 70 - 130 | | | | 01/20/22 08:47 | 01/21/22 03:14 | |
| -Terphenyl | 94 | | 70 - 130 | | | | 01/20/22 08:47 | 01/21/22 03:14 | |
| Method: 300.0 - Anions, Ion Chro | omatography - | Soluble | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| Chloride | 146 | | 4.95 | | mg/Kg | | | 01/22/22 19:12 | |
| lient Sample ID: PH04 | | | | | | | Lab Sar | nple ID: 890- | 1845-7 |
| ate Collected: 01/13/22 09:50 | | | | | | | | | x: Solio |
| ate Received: 01/18/22 13:54 | | | | | | | | | |
| ample Depth: 0.5 | | | | | | | | | |
| Method: 8021B - Volatile Organio | c Compounds | GC) | | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| Benzene | <0.00200 | | 0.00200 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 06:12 | 1 |
| | | | | | 5 5 | | | | |

| 4-Bromofluorobenzene (Surr) | 129 | | 70 - 130 | | 01/19/22 13:45 | 01/21/22 06:12 | 1 |
|-----------------------------|--------------|----------|----------|-------|----------------|----------------|---------|
| Surrogate | %Recovery Qu | ualifier | Limits | | Prepared | Analyzed | Dil Fac |
| Xylenes, Total | <0.00400 U | | 0.00400 | mg/Kg | 01/19/22 13:45 | 01/21/22 06:12 | 1 |
| o-Xylene | <0.00200 U | | 0.00200 | mg/Kg | 01/19/22 13:45 | 01/21/22 06:12 | 1 |
| m-Xylene & p-Xylene | <0.00400 U | | 0.00400 | mg/Kg | 01/19/22 13:45 | 01/21/22 06:12 | 1 |
| Ethylbenzene | <0.00200 U | | 0.00200 | mg/Kg | 01/19/22 13:45 | 01/21/22 06:12 | 1 |
| Toluene | <0.00200 U | | 0.00200 | mg/Kg | 01/19/22 13:45 | 01/21/22 06:12 | 1 |
| Benzene | <0.00200 U | | 0.00200 | mg/Kg | 01/19/22 13:45 | 01/21/22 06:12 | 1 |

-Bromofluorobenzene (Surr)

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

Method: Total BTEX - Total BTEX Calculation

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

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

%Recovery Qualifier

Result Qualifier

Result Qualifier

Result Qualifier

<50.0 U

<50.0 U

<50.0 U*1

105

<0.00400 U

Dil Fac

Dil Fac

Dil Fac

Dil Fac

1

1

1

1

1

Dil Fac

Matrix: Solid

1

Client Sample Results

Limits

70 - 130

RL

RL

RL

50.0

50.0

50.0

0.00400

MDL Unit

MDL Unit

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Job ID: 890-1845-1 SDG: Rural Eddy County

Client Sample ID: PH04

Project/Site: RDX 17-26

Client: WSP USA Inc.

Date Collected: 01/13/22 09:50 Date Received: 01/18/22 13:54

Sample Depth: 0.5

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Diesel Range Organics (Over

Surrogate

Analyte

Analyte

Analyte

(GRO)-C6-C10

C10-C28)

Total TPH

Total BTEX

| Sample I | D: | 890-1 | 845-7 |
|----------|----|--------|---------|
| | | Matrix | : Solid |

Analyzed

01/21/22 06:12

Analyzed

01/24/22 17:08

Analyzed

01/24/22 16:33

Analyzed

01/21/22 03:35

01/21/22 03:35

Lab Sample ID: 890-1845-8

Lab

Prepared

01/19/22 13:45

Prepared

Prepared

Prepared

01/20/22 08:47

01/20/22 08:47

D

D

D

5

| 1 | 3 |
|---|---|

| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | 01/20/22 08:47 | 01/21/22 03:35 |
|-----------------------------------|-----------|-----------|----------|-------|----------------|----------------|
| Surrogate | %Recovery | Qualifier | Limits | | Prepared | Analyzed |
| 1-Chlorooctane | 95 | | 70 - 130 | | 01/20/22 08:47 | 01/21/22 03:35 |
| o-Terphenyl | 97 | | 70 - 130 | | 01/20/22 08:47 | 01/21/22 03:35 |
| o-Terphenyl | 97 | | 70 - 130 | | 01/20/22 08:47 | 01/21/22 0 |

| Method: 300.0 - Anions, Ion Chrom | latography - So | Diuble | | | | | |
|-----------------------------------|-----------------|-------------|----------|---|------------|-------------|---------|
| Analyte | Result Q | ualifier RL | MDL Unit | D | Prepared A | Analyzed | Dil Fac |
| Chloride | 166 | 5.04 | mg/Kg | | 01/2 | 22/22 19:48 | 1 |

Client Sample ID: PH04

Date Collected: 01/13/22 09:52 Date Received: 01/18/22 13:54 Sample Depth: 1

| Method: 8021B - Volatile Organic Com | oounds (| GC) | | | | | | | |
|--|----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 06:33 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 06:33 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 06:33 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 06:33 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 06:33 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/19/22 13:45 | 01/21/22 06:33 | 1 |
| Surrogate % | Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 134 | S1+ | 70 - 130 | | | | 01/19/22 13:45 | 01/21/22 06:33 | 1 |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 | | | | 01/19/22 13:45 | 01/21/22 06:33 | 1 |
| – Method: Total BTEX - Total BTEX Calcu | Ilation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/24/22 17:08 | 1 |
| – Method: 8015 NM - Diesel Range Orgai | nics (DR | 0) (GC) | | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 01/24/22 16:33 | 1 |

Eurofins Carlsbad

Released to Imaging: 5/4/2022 11:52:07 AM

Client Sample Results

| | | Clien | t Sample R | lesults | \$ | | | | | | |
|--|----------------|-----------|------------|---------|-----------|---|----------------|-------------------------------|---------|---|--|
| Client: WSP USA Inc. Project/Site: RDX 17-26 | | | | | | | S | Job ID: 890 DG: Rural Eddy | | Ī | |
| Client Sample ID: PH04 Lab Sample ID: 890-1845-8 | | | | | | | | | | | |
| Date Collected: 01/13/22 09:52 | | | | | ix: Solid | | | | | | |
| Date Received: 01/18/22 13:54 | | | | | | | | | | | |
| Sample Depth: 1 | | | | | | | | | | | |
| - Method: 8015B NM - Diesel Rang | ge Organics (D | RO) (GC) | | | | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | ľ | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/20/22 08:47 | 01/21/22 03:56 | 1 | | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U *1 | 50.0 | | mg/Kg | | 01/20/22 08:47 | 01/21/22 03:56 | 1 | | |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/20/22 08:47 | 01/21/22 03:56 | 1 | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac | ĥ | |
| 1-Chlorooctane | 90 | | 70 - 130 | | | | 01/20/22 08:47 | 01/21/22 03:56 | 1 | | |
| o-Terphenyl | 92 | | 70 - 130 | | | | 01/20/22 08:47 | 01/21/22 03:56 | 1 | | |
| _ Method: 300.0 - Anions, Ion Chro | omatography - | Soluble | | | | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | | |
| Chloride | 317 | | 5.01 | | mg/Kg | | | 01/22/22 20:00 | 1 | | |
| - | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Job ID: 890-1845-1 SDG: Rural Eddy County

Prep Type: Total/NA

Prep Type: Total/NA

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

Percent Surrogate Recovery (Acceptance Limits) BFB1 DFBZ1 Client Sample ID (70-130) (70-130) Lab Sample ID 880-10289-A-115-F MS Matrix Spike 110 97 6 Matrix Spike Duplicate 880-10289-A-115-G MSD 88 82 890-1845-1 PH01 122 99 PH01 890-1845-2 128 105 890-1845-3 PH02 125 97 PH02 890-1845-4 129 102 890-1845-5 PH03 122 106 PH03 130 104 890-1845-6 890-1845-7 PH04 129 105 890-1845-8 PH04 134 S1+ 98 LCS 880-17218/1-A Lab Control Sample 112 94 LCSD 880-17218/2-A Lab Control Sample Dup 110 98 MB 880-17131/5-A Method Blank 123 97 MB 880-17218/5-A Method Blank 114 97 Surrogate Legend BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

| | | | | Percent Surrogate Recovery (Acceptan |
|--------------------|------------------------|----------|----------|--------------------------------------|
| | | 1CO1 | OTPH1 | |
| ab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 80-10347-A-1-G MS | Matrix Spike | 103 | 88 | |
| 80-10347-A-1-H MSD | Matrix Spike Duplicate | 109 | 90 | |
| 90-1845-1 | PH01 | 94 | 96 | |
| 90-1845-2 | PH01 | 91 | 93 | |
| 90-1845-3 | PH02 | 91 | 93 | |
| 0-1845-4 | PH02 | 108 | 113 | |
| 0-1845-5 | PH03 | 93 | 95 | |
| 0-1845-6 | PH03 | 91 | 94 | |
| 0-1845-7 | PH04 | 95 | 97 | |
| 0-1845-8 | PH04 | 90 | 92 | |
| Surrogate Legend | | | | |

OTPH = o-Terphenyl

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

| Matrix: | Solid | |
|---------|-------|--|
| | | |

| | | | | Percent Surrogate Recovery (Acceptance Limits) |
|----------------------|------------------------|----------|----------|--|
| | | 1CO2 | OTPH2 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| LCS 880-17332/2-A | Lab Control Sample | 110 | 102 | |
| LCSD 880-17332/3-A | Lab Control Sample Dup | 124 | 120 | |
| MB 880-17332/1-A | Method Blank | 94 | 97 | |
| Surrogate Legend | | | | |
| 1CO = 1-Chlorooctane | | | | |

Prep Type: Total/NA

Surrogate Summary

Client: WSP USA Inc. Project/Site: RDX 17-26 OTPH = o-Terphenyl Job ID: 890-1845-1 SDG: Rural Eddy County

| 5 | |
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| 8 | |
| 9 | |
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| | |
| 13 | |

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

| Lab Sample ID: MB 880-17131/5- | Α | | | | | | | | | Client Sa | mple ID: Me | thod | Blank |
|--------------------------------|--------------|-------------|----------|---------|-----|-------|-------|-----|-------|------------|---------------|--------|---------|
| Matrix: Solid | | | | | | | | | | | Prep Typ | e: Tc | otal/NA |
| Analysis Batch: 17325 | | | | | | | | | | | Prep Ba | itch: | 17131 |
| | М | В МВ | | | | | | | | | - | | |
| Analyte | Resu | t Qualifier | RL | | MDL | Unit | | D | P | repared | Analyzed | | Dil Fac |
| Benzene | <0.0020 | D U | 0.00200 | | | mg/Kg | | _ | 01/1 | 9/22 07:30 | 01/20/22 11:1 | 0 | 1 |
| Toluene | <0.0020 | D U | 0.00200 | | | mg/Kg | | | 01/1 | 9/22 07:30 | 01/20/22 11:1 | 0 | 1 |
| Ethylbenzene | <0.0020 | D U | 0.00200 | | | mg/Kg | | | 01/1 | 9/22 07:30 | 01/20/22 11:1 | 0 | 1 |
| m-Xylene & p-Xylene | <0.0040 | D U | 0.00400 | | | mg/Kg | | | 01/1 | 9/22 07:30 | 01/20/22 11:1 | 0 | 1 |
| o-Xylene | <0.0020 | D U | 0.00200 | | | mg/Kg | | | 01/1 | 9/22 07:30 | 01/20/22 11:1 | 0 | 1 |
| Xylenes, Total | <0.0040 | D U | 0.00400 | | | mg/Kg | | | 01/1 | 9/22 07:30 | 01/20/22 11:1 | 0 | 1 |
| | М | B MB | | | | | | | | | | | |
| Surrogate | %Recover | y Qualifier | Limits | | | | | | P | repared | Analyzed | | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 12 | 3 | 70 - 130 | | | | | | 01/1 | 9/22 07:30 | 01/20/22 11:1 | 0 | 1 |
| 1,4-Difluorobenzene (Surr) | 9 | 7 | 70 - 130 | | | | | | 01/1 | 9/22 07:30 | 01/20/22 11:1 | 0 | 1 |
| | • | | | | | | | | | Client Cr | male ID: Me | د ما | Diank |
| Lab Sample ID: MB 880-17218/5- | A | | | | | | | | | Client Sa | mple ID: Me | | |
| Matrix: Solid | | | | | | | | | | | Prep Typ | | |
| Analysis Batch: 17325 | м | з мв | | | | | | | | | Prep Ba | itch: | 17218 |
| Analyte | | t Qualifier | RL | | MDL | Unit | | D | P | repared | Analyzed | | Dil Fac |
| Benzene | < 0.0020 | D U | 0.00200 | | | mg/Kg | | _ | - | 9/22 13:45 | 01/20/22 22:4 | 7 | 1 |
| Toluene | < 0.0020 | D U | 0.00200 | | | mg/Kg | | | 01/1 | 9/22 13:45 | 01/20/22 22:4 | 17 | 1 |
| Ethylbenzene | <0.0020 | D U | 0.00200 | | | mg/Kg | | | 01/1 | 9/22 13:45 | 01/20/22 22:4 | 17 | 1 |
| m-Xylene & p-Xylene | <0.0040 | | 0.00400 | | | mg/Kg | | | | 9/22 13:45 | 01/20/22 22:4 | | 1 |
| o-Xylene | < 0.0020 | | 0.00200 | | | mg/Kg | | | | 9/22 13:45 | 01/20/22 22:4 | | 1 |
| Xylenes, Total | < 0.0040 | | 0.00400 | | | mg/Kg | | | | 9/22 13:45 | 01/20/22 22:4 | | 1 |
| | М | 3 <i>MB</i> | | | | | | | | | | | |
| Surrogate | %Recover | | Limits | | | | | | P | repared | Analyzed | | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | · | 70 - 130 | | | | | | | 9/22 13:45 | 01/20/22 22:4 | 17 | 1 |
| 1,4-Difluorobenzene (Surr) | 9 | | 70 - 130 | | | | | | | 9/22 13:45 | 01/20/22 22:4 | | 1 |
| = | | | | | | | | | | | | | |
| Lab Sample ID: LCS 880-17218/1 | -A | | | | | | | С | lient | Sample | ID: Lab Cont | | |
| Matrix: Solid | | | | | | | | | | | Prep Typ | | |
| Analysis Batch: 17325 | | | | | | | | | | | Prep Ba | itch: | 17218 |
| | | | Spike | | LCS | | | | | | %Rec. | | |
| Analyte | | | Added | Result | Qua | | Unit | | | %Rec | Limits | | |
| Benzene | | | 0.100 | 0.08639 | | | mg/Kg | | | 86 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.09391 | | | mg/Kg | | | 94 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.1005 | | | mg/Kg | | | 101 | 70 - 130 | | |
| m-Xylene & p-Xylene | | | 0.200 | 0.1949 | | | mg/Kg | | | 97 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.09578 | | | mg/Kg | | | 96 | 70 - 130 | | |
| | LCS LC | s | | | | | | | | | | | |
| Surrogate | %Recovery Qu | alifier | Limits | | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 | | | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | | | | | | | | | | |
| Lab Sample ID: LCSD 880-17218 | / 2-A | | | | | | Clie | ent | Sam | nle ID· I | ab Control S | amn | le Dun |
| Matrix: Solid | | | | | | | U.I. | | | | Prep Typ | | |
| Analysis Batch: 17325 | | | | | | | | | | | Prep Ba | | |
| Analysis Daton. 17323 | | | Spike | LCSD | 105 | D | | | | | Явес. | non: | RPD |
| Analyte | | | Added | Result | | | Unit | | D | %Rec | | RPD | Limit |
| | | | Audeu | Result | aud | | J | | | | 70 400 | | |

5

90

70 - 130

Benzene

0.08994

mg/Kg

0.100

35

QC Sample Results

Job ID: 890-1845-1 SDG: Rural Eddy County

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

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

98

| Lab Sample ID: LCSD 880-172 Matrix: Solid Analysis Batch: 17325 | 218/2- A | | | | | Clie | nt Sam | iple ID: | | I Sample ype: Tot Batch: | tal/NA |
|---|-----------------|-----------|----------|--------|-----------|-------|--------|----------|----------|--------------------------------|--------|
| | | | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Toluene | | | 0.100 | 0.1007 | | mg/Kg | | 101 | 70 - 130 | 7 | 35 |
| Ethylbenzene | | | 0.100 | 0.1039 | | mg/Kg | | 104 | 70 - 130 | 3 | 35 |
| m-Xylene & p-Xylene | | | 0.200 | 0.2066 | | mg/Kg | | 103 | 70 _ 130 | 6 | 35 |
| o-Xylene | | | 0.100 | 0.1011 | | mg/Kg | | 101 | 70 - 130 | 5 | 35 |
| | LCSD | LCSD | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 110 | | 70 - 130 | | | | | | | | |

70 - 130

| - | |
|-------------------------------------|--|
| Lab Sample ID: 880-10289-A-115-F MS | |
| Matrix: Solid | |

Analysis Batch: 17325

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

| Analysis Batch: 17325 | | | | | | | | | | Batch: 1721 | 8 |
|-----------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|-------------|---|
| | Sample | Sample | Spike | MS | MS | | | | %Rec. | | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Benzene | <0.00200 | U F2 F1 | 0.101 | 0.03789 | F1 | mg/Kg | | 38 | 70 - 130 | | _ |
| Toluene | <0.00200 | U F2 F1 | 0.101 | 0.04071 | F1 | mg/Kg | | 40 | 70 - 130 | | |
| Ethylbenzene | <0.00200 | U F2 F1 | 0.101 | 0.03994 | F1 | mg/Kg | | 40 | 70 - 130 | | |
| m-Xylene & p-Xylene | <0.00400 | U F2 F1 | 0.201 | 0.07742 | F1 | mg/Kg | | 38 | 70 - 130 | | |
| o-Xylene | <0.00200 | U F2 F1 | 0.101 | 0.04275 | F1 | mg/Kg | | 42 | 70 - 130 | | |

| | MS | MS | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 110 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 |

Lab Sample ID: 880-10289-A-115-G MSD Matrix: Solid Analysis Batch: 17325

| Analysis Batch: 17325 | | | | | | | | | Prep | Batch: | 17218 |
|-----------------------|-----------|-----------|--------|---------|-----------|-------|---|------|----------|--------|-------|
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | <0.00200 | U F2 F1 | 0.100 | 0.02260 | F2 F1 | mg/Kg | | 23 | 70 - 130 | 51 | 35 |
| Toluene | <0.00200 | U F2 F1 | 0.100 | 0.01774 | F2 F1 | mg/Kg | | 18 | 70 - 130 | 79 | 35 |
| Ethylbenzene | <0.00200 | U F2 F1 | 0.100 | 0.02099 | F2 F1 | mg/Kg | | 21 | 70 - 130 | 62 | 35 |
| m-Xylene & p-Xylene | <0.00400 | U F2 F1 | 0.200 | 0.04615 | F2 F1 | mg/Kg | | 23 | 70 - 130 | 51 | 35 |
| o-Xylene | <0.00200 | U F2 F1 | 0.100 | 0.02730 | F2 F1 | mg/Kg | | 27 | 70 - 130 | 44 | 35 |
| | MSD | MSD | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |

70 - 130

70 - 130

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

88

82

| Lab Sample ID: MB 880-17332/1-A Matrix: Solid Analysis Batch: 17331 | МВ | МВ | | | | | Client Sa | mple ID: Metho Prep Type: ⁻ Prep Batcl | Total/NA |
|---|--------|-----------|------|-----|-------|---|----------------|---|----------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | <50.0 | U | 50.0 | | mg/Kg | | 01/20/22 08:47 | 01/20/22 19:44 | 1 |
| (GRO)-C6-C10 | | | | | | | | | |

Eurofins Carlsbad

Released to Imaging: 5/4/2022 11:52:07 AM

Client: WSP USA Inc.

Project/Site: RDX 17-26

QC Sample Results

Job ID: 890-1845-1 SDG: Rural Eddy County

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

| Lab Sample ID: MB 880-17332 Matrix: Solid | / 1-A | | | | | | | | | Client Sa | ample ID: M Prep Ty | | |
|---|--|--|--|---|--------------------------------|-------|--|----------|------------|--|---|--------------------------------------|---|
| | | | | | | | | | | | | | |
| Analysis Batch: 17331 | - | | | | | | | | | | Prep | Batch: | 17332 |
| A maluán | | MB MB | DI. | | | 11 | | _ | | | Analyza | | |
| Analyte | | ult Qualifier | | | MDL | | | D | | repared | Analyze | | Dil Fac |
| Diesel Range Organics (Over C10-C28) | <2 | 0.0 U | 50.0 | | | mg/Kg | 3 | | 01/20 | 0/22 08:47 | 01/20/22 1 | 9:44 | |
| OII Range Organics (Over C28-C36) | <5 |).0 U | 50.0 | | | mg/Kg | 1 | | 01/2 | 0/22 08:47 | 01/20/22 1 | 9:44 | |
| | | | | | | | , | | | | | | |
| | I | MB MB | | | | | | | | | | | |
| Surrogate | %Recov | | Limits | | | | | | | repared | Analyze | | Dil Fa |
| 1-Chlorooctane | | 94 | 70 - 130 | | | | | | | 0/22 08:47 | 01/20/22 1 | | |
| o-Terphenyl | | 97 | 70 - 130 | | | | | | 01/2 | 0/22 08:47 | 01/20/22 1 | 9:44 | |
| Lab Sample ID: LCS 880-1733 | 2/2-1 | | | | | | | C | liont | Samplo | ID: Lab Co | ntrol S | Sample |
| Matrix: Solid | | | | | | | | | nem | Sample | Prep T | | |
| Analysis Batch: 17331 | | | | | | | | | | | | Batch: | |
| Anarysis Daton. 17331 | | | Spike | 1.05 | LCS | | | | | | %Rec. | Daten | 11334 |
| Analyte | | | Added | Result | | ifier | Unit | | D | %Rec | Limits | | |
| Gasoline Range Organics | | | 1000 | 886.3 | audi | | mg/Kg | | _ | 89 | 70 - 130 | | |
| (GRO)-C6-C10 | | | 1000 | 000.3 | | | mg/ity | | | 09 | 10 - 130 | | |
| Diesel Range Organics (Over | | | 1000 | 934.1 | | | mg/Kg | | | 93 | 70 - 130 | | |
| C10-C28) | | | | | | | 0 0 | | | | | | |
| | LCS L | cs | | | | | | | | | | | |
| Surrogate | %Recovery | | Limits | | | | | | | | | | |
| 1-Chlorooctane | 110 | | 70 - 130 | | | | | | | | | | |
| o-Terphenyl | 102 | | 70 - 130 | | | | | | | | | | |
| Matrix: Solid Analysis Batch: 17331 | | | | | | | | | | | Prep T | | |
| | | | Spike | LCSD | LCS | D | | | | | | Batch | |
| Analvte | | | Spike Added | LCSD Result | | | Unit | | D | %Rec | %Rec. | | RPD |
| - | | | Spike Added 1000 | LCSD Result 1065 | | | Unit mg/Kg | | <u>D</u> | %Rec | | RPD 18 | RPI Limi |
| Gasoline Range Organics | | | Added | Result | | | | | <u>D</u> | | %Rec. Limits | RPD | RPI Limi |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | | | Added | Result | Qual | | | | <u>D</u> | | %Rec. Limits | RPD | RPI Limi 20 |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | | | Added | Result 1065 | Qual | | mg/Kg | | <u>D</u> | 106 | %Rec. Limits 70 - 130 | RPD 18 | RPE Limi 20 |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | LCSD 1 | | Added | Result 1065 | Qual | | mg/Kg | | D | 106 | %Rec. Limits 70 - 130 | RPD 18 | RPE Limi 20 |
| (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | %Recovery | | Added 1000 1000 <i>Limits</i> | Result 1065 | Qual | | mg/Kg | | <u>D</u> | 106 | %Rec. Limits 70 - 130 | RPD 18 | 2 17332 RPE Limi 20 20 |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane | <u>%Recovery</u> <u>(</u> 124 | | Added 1000 1000 <i>Limits</i> 70 - 130 | Result 1065 | Qual | | mg/Kg | | <u>D</u> | 106 | %Rec. Limits 70 - 130 | RPD 18 | RPE Limi 20 |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate | %Recovery | | Added 1000 1000 <i>Limits</i> | Result 1065 | Qual | | mg/Kg | | <u>D</u> | 106 | %Rec. Limits 70 - 130 | RPD 18 | RPE Limi 20 |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl | %Recovery 0 124 120 | | Added 1000 1000 <i>Limits</i> 70 - 130 | Result 1065 | Qual | | mg/Kg | | <u>D</u> | 106 | %Rec. Limits 70 - 130 70 - 130 | RPD 18 22 | RPD Limi 20 |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-10347-A-1 | %Recovery 0 124 120 | | Added 1000 1000 <i>Limits</i> 70 - 130 | Result 1065 | Qual | | mg/Kg | | <u>D</u> | 106 | %Rec. Limits 70 - 130 70 - 130 | RPD 18 22 Matrix | RPE Limi 20 20 |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-10347-A-1 Matrix: Solid | %Recovery 0 124 120 | | Added 1000 1000 <i>Limits</i> 70 - 130 | Result 1065 | Qual | | mg/Kg | | . <u>D</u> | 106 | %Rec. Limits 70 - 130 70 - 130 Sample ID: Prep T | RPD 18 22 Matrix ype: To | RPE Limi 20 20 20 Spike otal/NA |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-10347-A-1 | <u>%Recovery</u> 124 124 120 -G MS | Qualifier | Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130 | Result 1065 1170 | Qual | | mg/Kg | | <u>D</u> | 106 | %Rec. Limits 70 - 130 70 - 130 70 - 130 Sample ID: Prep Ty Prep | RPD 18 22 Matrix | RPE Limi 20 20 20 Spike otal/NA |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-10347-A-1 Matrix: Solid Analysis Batch: 17331 | %Recovery 0 124 120 -G MS Sample S | Qualifier | Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 Spike | Result 1065 1170 MS | Qual *1 MS | ifier | mg/Kg mg/Kg | |) | 106 117 Client \$ | %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 70 - 190 | RPD 18 22 Matrix ype: To | RPE Limi 20 20 20 Spike otal/NA |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-10347-A-1 Matrix: Solid Analysis Batch: 17331 Analyte | %Recovery 0 124 120 -G MS Sample S Result 0 | Qualifier | Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 Spike Added | Result 1065 1170 MS Result | Qual *1 MS Qual | ifier | mg/Kg mg/Kg Unit | | D | 106 117 Client \$ | %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 70 - 190 | RPD 18 22 Matrix ype: To | RPE Limi 20 20 20 Spike otal/NA |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-10347-A-1 Matrix: Solid Analysis Batch: 17331 Analyte Gasoline Range Organics | %Recovery 0 124 120 -G MS Sample S | Qualifier | Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 Spike | Result 1065 1170 MS | Qual *1 MS Qual | ifier | mg/Kg mg/Kg | |) | 106 117 Client \$ | %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 70 - 190 | RPD 18 22 Matrix ype: To | RPI Limi 20 20 Spike otal/NA |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-10347-A-1 Matrix: Solid Analysis Batch: 17331 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | %Recovery 0 124 120 -G MS Sample S Result 0 | Qualifier Gample Qualifier J F1 | Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 Spike Added | Result 1065 1170 MS Result | Qual *1 MS Qual F1 | ifier | mg/Kg mg/Kg Unit | |) | 106 117 Client \$ | %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 70 - 190 | RPD 18 22 Matrix ype: To | RPE Limi 20 20 20 Spike otal/NA |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-10347-A-1 Matrix: Solid Analysis Batch: 17331 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | %Recovery 0 124 120 -G MS Sample Sample Sample <49.9 | Qualifier Gample Qualifier J F1 *1 | Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130 997 | Result 1065 1170 MS Result 1520 | Qual *1 MS Qual F1 | ifier | mg/Kg mg/Kg Unit mg/Kg | |) | 106 117 Client \$ %Rec 150 | %Rec. Limits 70 - 130 70 - 130 70 - 130 Sample ID: Prep Ty Prep %Rec. Limits 70 - 130 | RPD 18 22 Matrix ype: To | RPE Limi 20 20 20 Spike otal/NA |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-10347-A-1 Matrix: Solid Analysis Batch: 17331 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | %Recovery 0 124 120 -G MS Sample Kesult 0 <49.9 | Qualifier Gample Qualifier J F1 *1 | Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130 997 | Result 1065 1170 MS Result 1520 | Qual *1 MS Qual F1 | ifier | mg/Kg mg/Kg Unit mg/Kg | |) | 106 117 Client \$ %Rec 150 | %Rec. Limits 70 - 130 70 - 130 70 - 130 Sample ID: Prep Ty Prep %Rec. Limits 70 - 130 | RPD 18 22 Matrix ype: To | RPE Limi 20 20 20 Spike otal/NA |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-10347-A-1 Matrix: Solid | %Recovery 0 124 120 -G MS Sample Kesult 0 <49.9 | Qualifier Sample Qualifier UF1 *1 UF1 *1 | Added 1000 | Result 1065 1170 MS Result 1520 | Qual *1 MS Qual F1 | ifier | mg/Kg mg/Kg <u>Unit</u> mg/Kg | |) | 106 117 Client \$ %Rec 150 | %Rec. Limits 70 - 130 70 - 130 70 - 130 Sample ID: Prep Ty Prep %Rec. Limits 70 - 130 | RPD 18 22 Matrix ype: To | RPE Limi 20 20 20 Spike otal/NA |

890-1845-1

88

o-Terphenyl

70 - 130

QC Sample Results

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

| Matrix: Solid | | | | | | Ŭ | lient S | | | Type: To | |
|---|-------------------------|---------------------|-----------------------|--|-------------------|---------------|----------|------------------------------|--|-------------------------------|--------------------------|
| Analysia Potoby 17221 | | | | | | | | | | | |
| Analysis Batch: 17331 | Somala | Sampla | Spike | MED | MSD | | | | %Rec. | Batch: | RP |
| Analuto | | Sample Qualifier | Added | | Qualifier | Unit | D | %Rec | Limits | RPD | Lim |
| Analyte Gasoline Range Organics | | | 996 | 1598 | | mg/Kg | | 158 | 70 - 130 | 5 | 2 |
| (GRO)-C6-C10 | ~45.5 | 011 | 550 | 1590 | 11 | mg/rtg | | 150 | 70 - 150 | 5 | 2 |
| Diesel Range Organics (Over | <49.9 | U F1 *1 | 996 | 1621 | F1 | mg/Kg | | 163 | 70 - 130 | 6 | 2 |
| C10-C28) | | | | | | 5 5 | | | | | |
| | MSD | MSD | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 109 | | 70 - 130 | | | | | | | | |
| o-Terphenyl | 90 | | 70 - 130 | | | | | | | | |
| lethod: 300.0 - Anions, I Lab Sample ID: MB 880-1733 Matrix: Solid Analysis Batch: 17519 | | ography | | | | | | Client S | ample ID: Prep | Method Type: S | |
| | | MB MB | | | | | | | | | |
| Analyte | | esult Qualifier | | | MDL Unit | | D F | repared | Analyz | | Dil Fa |
| Chloride | < | <5.00 U | 5. | 00 | mg/K | g | | | 01/22/22 | 17:26 | |
| Lab Sample ID: LCS 880-173 Matrix: Solid Analysis Batch: 17519 | 338/2-A | | | | | | Clien | t Sample | ID: Lab Co Prep | ontrol Sa Type: S | |
| | | | Spike | LCS | LCS | | | | %Rec. | | |
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Chloride | | | 250 | 253.1 | | mg/Kg | | 101 | 90 - 110 | | |
| _ab Sample ID: LCSD 880-17 Matrix: Solid | 7338/3-A | | | | | Clie | ent San | nple ID: | Lab Contro Prep | ol Sampl Type: S | |
| Analysia Databy 17510 | | | | | | | | | | | |
| Analysis Batch: 17519 | | | Snike | LCSD | LCSD | | | | %Rec | | RF |
| | | | Spike Added | | LCSD Qualifier | Unit | п | %Pec | %Rec. | חפק | |
| Analyte | | | Spike Added 250 | | LCSD Qualifier | Unit mg/Kg | D | %Rec 107 | %Rec. Limits 90 - 110 | RPD 6 | Lin |
| Analyte Chloride Lab Sample ID: 880-10291-A Matrix: Solid | | | Added | Result | | | <u> </u> | 107 | Limits 90 - 110 Sample ID | 6 | Lim 2 Spik |
| Analysis Batch: 17519 Analyte Chloride Lab Sample ID: 880-10291-A Matrix: Solid Analysis Batch: 17519 | | Sample | Added | Result 268.1 | | | <u>D</u> | 107 | Limits 90 - 110 Sample ID | 6 : Matrix | |
| Analyte Chloride Lab Sample ID: 880-10291-A Matrix: Solid Analysis Batch: 17519 | Sample | Sample Qualifier | Added | Result 268.1 MS | Qualifier | | <u>D</u> | 107 | Limits 90 - 110 Sample ID Prep | 6 : Matrix | Lim 2 Spik |
| Analyte Chloride Lab Sample ID: 880-10291-A Matrix: Solid Analysis Batch: 17519 Analyte | Sample | - | Added | Result 268.1 MS | Qualifier | mg/Kg | | 107 Client | Limits 90 - 110 Sample ID Prep %Rec. | 6 : Matrix | Lim 2 Spik |
| Analyte Chloride Lab Sample ID: 880-10291-A Matrix: Solid | Sample Result 170 | - | Added | Result 268.1 MS Result | Qualifier | mg/Kg | D | 107 Client %Rec 100 | Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110 D: Matrix Sp | 6 : Matrix Type: S | Lim Spik olub |
| Analyte Chloride Lab Sample ID: 880-10291-A Matrix: Solid Analysis Batch: 17519 Analyte Chloride Lab Sample ID: 880-10291-A Matrix: Solid | Sample Result 170 | Qualifier | Added | Result 268.1 MS Result 418.5 | Qualifier | mg/Kg | D | 107 Client %Rec 100 | Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110 D: Matrix Sp | 6 : Matrix Type: So | Lim 2 Spik olub |

Client: WSP USA Inc.

Project/Site: RDX 17-26

Job ID: 890-1845-1 SDG: Rural Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

| Lab Sample ID: MB 880-17337/1-A | ۱ | | | | | | | | | Client S | ample ID: I | Nethod | Blank |
|--|---------------------------------------|---------------------------------------|--|------------|--|-------------------------------|---------------------------------|------------|--------------------|--|---|---|--|
| Matrix: Solid | | | | | | | | | | | Prep | Type: S | Soluble |
| Analysis Batch: 17523 | | | | | | | | | | | | | |
| | | MB MB | | | | | | | | | | | |
| Analyte | | esult Qualifier | | RL | | MDL Unit | | D | Pi | repared | Analyz | ed | Dil Fac |
| Chloride | < | <5.00 U | | 5.00 | | mg/K | g | | | | 01/22/22 | 18:36 | 1 |
| Lab Sample ID: LCS 880-17337/2- Matrix: Solid | A | | | | | | | CI | lient | Sample | ID: Lab Co Prep | ontrol S Type: S | |
| Analysis Batch: 17523 | | | | | | | | | | | | | |
| - | | | Spike | | LCS | LCS | | | | | %Rec. | | |
| Analyte | | | Added | | Result | Qualifier | Unit | | D | %Rec | Limits | | |
| Chloride | | | 250 | | 258.4 | | mg/Kg | | _ | 103 | 90 - 110 | | |
| Lab Sample ID: LCSD 880-17337/3 | 2. A | | | | | | CI | ont | Sam | nio ID: I | _ab Contro | l Samn | |
| Matrix: Solid | | | | | | | | ent | Jam | pie ib. i | | Type: S | |
| Analysis Batch: 17523 | | | | | | | | | | | Tieb | Type. c | olubic |
| Analysis Datch. 17525 | | | Spike | | | LCSD | | | | | %Rec. | | RPD |
| Analyte | | | Added | | | Qualifier | Unit | | D | %Rec | Limits | RPD | Limi |
| | | | 250 | | 271.4 | Quaimer | mg/Kg | | _ | 109 | 90 - 110 | 5 | 2(|
| | | | | | | | | | | | | - | |
| Lab Sample ID: 890-1843-A-19-D I | MS | | | | | | | | | Client | Sample ID: | | |
| Matrix: Solid | | | | | | | | | | | Prep | Type: S | Soluble |
| Analysis Batch: 17523 | | | | | | | | | | | | | |
| | Sample | Sample | Spike | | MS | MS | | | | | %Rec. | | |
| | Result | Qualifier | Added | | Result | Qualifier | Unit | | D | %Rec | Limits | | |
| - | | | | | | | | | _ | | | | |
| Analyte Chloride | 238 | | 248 | | 505.9 | | mg/Kg | | _ | 108 | 90 - 110 | | |
| | 238 | | 248 | | 505.9 | | | Clier | nt Sa | | : Matrix Sp | | - |
| Chloride Lab Sample ID: 890-1843-A-19-E I Matrix: Solid | 238 | | 248 | | 505.9 | | | Clier | nt Sa | | : Matrix Sp | ike Du Type: S | - |
| Chloride Lab Sample ID: 890-1843-A-19-E I | 238 MSD | Sample | 248 Spike | | | MSD | | Clier | nt Sa | | : Matrix Sp | | Soluble |
| Chloride Lab Sample ID: 890-1843-A-19-E I Matrix: Solid Analysis Batch: 17523 | 238 MSD Sample Result | Sample Qualifier | | | MSD | MSD Qualifier | | Clier | nt Sa | | : Matrix Sp Prep | | Soluble RPD |
| Chloride Lab Sample ID: 890-1843-A-19-E I Matrix: Solid Analysis Batch: 17523 Analyte | 238 MSD Sample | • | Spike | | MSD | | | Clier | | imple ID | : Matrix Sp Prep %Rec. | Type: S | RPD Limit |
| Chloride Lab Sample ID: 890-1843-A-19-E I Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: MB 880-17555/1-A | 238 MSD Sample Result 238 | • | Spike Added | | MSD Result | | Unit | Clier | <u>D</u> | %Rec 92 | Watrix Sp Prep %Rec. Limits 90 - 110 Gample ID: I | Type: S | RPD Limit 20 |
| Chloride Lab Sample ID: 890-1843-A-19-E I Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: MB 880-17555/1-A Matrix: Solid | 238 MSD Sample Result 238 | • | Spike Added | | MSD Result | | Unit | Clier | <u>D</u> | %Rec 92 | Watrix Sp Prep %Rec. Limits 90 - 110 Gample ID: I | Type: S | RPE Limit 20 |
| Chloride Lab Sample ID: 890-1843-A-19-E I Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: MB 880-17555/1-A Matrix: Solid | 238 MSD Sample Result 238 | • | Spike Added | | MSD Result | | Unit | Clier | <u>D</u> | %Rec 92 | Watrix Sp Prep %Rec. Limits 90 - 110 Gample ID: I | Type: S | RPD Limit 20 |
| Chloride Lab Sample ID: 890-1843-A-19-E I Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: MB 880-17555/1-A Matrix: Solid Analysis Batch: 17726 | 238 MSD Sample Result 238 | Qualifier | Spike Added | RL | MSD Result 465.2 | | Unit | Clier | <u>D</u> | %Rec 92 | Watrix Sp Prep %Rec. Limits 90 - 110 Gample ID: I | Type: S RPD 8 Method Type: S | RPD Limit 20 Blank Soluble |
| Chloride Lab Sample ID: 890-1843-A-19-E I Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: MB 880-17555/1-A Matrix: Solid Analysis Batch: 17726 Analyte | 238 MSD Sample Result 238 | Qualifier | Spike Added | RL 5.00 | MSD Result 465.2 | Qualifier | _ <mark>Unit</mark> mg/Kg | | <u>D</u> | %Rec 92 Client S | 9: Matrix Sp Prep %Rec. Limits 90 - 110 Gample ID: I Prep | Type: S RPD 8 Method Type: S | RPD Limit 20 Blank Soluble Dil Fac |
| Chloride Lab Sample ID: 890-1843-A-19-E I Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: MB 880-17555/1-A Matrix: Solid Analysis Batch: 17726 Analyte Chloride | 238 MSD Sample Result 238 | Qualifier MB MB esult Qualifier | Spike Added | | MSD Result 465.2 | Qualifier MDL Unit | _ <mark>Unit</mark> mg/Kg | <u>D</u> . | <u>D</u> Pi | %Rec 92 Client S | 2: Matrix Sp Prep 7 %Rec. Limits 90 - 110 Gample ID: I Prep 7 - Analyz 01/26/22 7 | Type: S RPD 8 Method Type: S ed 10:14 | RPE Limi 20 Blank Soluble Dil Fac |
| Chloride Lab Sample ID: 890-1843-A-19-E I Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: MB 880-17555/1-A Matrix: Solid Analysis Batch: 17726 Analyte Chloride Lab Sample ID: LCS 880-17555/2- | 238 MSD Sample Result 238 | Qualifier MB MB esult Qualifier | Spike Added | | MSD Result 465.2 | Qualifier MDL Unit | _ <mark>Unit</mark> mg/Kg | <u>D</u> . | <u>D</u> Pi | %Rec 92 Client S | 9: Matrix Sp Prep %Rec. Limits 90 - 110 ample ID: I Prep | RPD 8 Method Type: S ed 10:14 ontrol S | RPD Limit 20 Blank Soluble Dil Fac |
| Chloride Lab Sample ID: 890-1843-A-19-E I Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: MB 880-17555/1-A Matrix: Solid Analysis Batch: 17726 Analyte Chloride Lab Sample ID: LCS 880-17555/2-Matrix: Solid | 238 MSD Sample Result 238 | Qualifier MB MB esult Qualifier | Spike Added | | MSD Result 465.2 | Qualifier MDL Unit | _ <mark>Unit</mark> mg/Kg | <u>D</u> . | <u>D</u> Pi | %Rec 92 Client S | 9: Matrix Sp Prep %Rec. Limits 90 - 110 ample ID: I Prep | Type: S RPD 8 Method Type: S ed 10:14 | RPD Limit 20 Blank Soluble Dil Fac |
| Chloride Lab Sample ID: 890-1843-A-19-E I Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: MB 880-17555/1-A Matrix: Solid Analysis Batch: 17726 Analyte Chloride Lab Sample ID: LCS 880-17555/2-Matrix: Solid | 238 MSD Sample Result 238 | Qualifier MB MB esult Qualifier | Spike Added 248 | | MSD Result 465.2 | Qualifier MDL Unit mg/K | _ <mark>Unit</mark> mg/Kg | <u>D</u> . | <u>D</u> Pi | %Rec 92 Client S | 9: Matrix Sp Prep %Rec. Limits 90 - 110 ample ID: I Prep 01/26/22 1D: Lab Co Prep | RPD 8 Method Type: S ed 10:14 ontrol S | RPD Limit 20 Blank Soluble Dil Fac |
| Chloride Lab Sample ID: 890-1843-A-19-E I Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: MB 880-17555/1-A Matrix: Solid Analysis Batch: 17726 Analyte Chloride Lab Sample ID: LCS 880-17555/2- Matrix: Solid Analysis Batch: 17726 | 238 MSD Sample Result 238 | Qualifier MB MB esult Qualifier | Spike Added | | MSD Result 465.2 | Qualifier MDL Unit | _ <mark>Unit</mark> mg/Kg | <u>D</u> . | <u>D</u> Pi | %Rec 92 Client S | 9: Matrix Sp Prep %Rec. Limits 90 - 110 ample ID: I Prep | RPD 8 Method Type: S ed 10:14 ontrol S | RPD Limit 20 Blank Soluble Dil Fac 1 Sample |
| Chloride Lab Sample ID: 890-1843-A-19-E I Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: MB 880-17555/1-A Matrix: Solid Analysis Batch: 17726 Chloride Lab Sample ID: LCS 880-17555/2- Matrix: Solid Analysis Batch: 17726 Analysis Batch: 17726 Analysis Batch: 17726 Analysis Batch: 17726 | 238 MSD Sample Result 238 | Qualifier MB MB esult Qualifier | Spike Added 248 | | MSD Result 465.2 | Qualifier MDL Unit mg/K | g | <u>D</u> . | D Pr | %Rec 92 Client S repared Sample | 9: Matrix Sp Prep 7 %Rec. Limits 90 - 110 ample ID: I Prep 7 01/26/22 7 ID: Lab Co Prep 7 %Rec. | RPD 8 Method Type: S ed 10:14 ontrol S | RPD Limit 20 Blank Soluble Dil Fac 1 Sample |
| Chloride Lab Sample ID: 890-1843-A-19-E I Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: MB 880-17555/1-A Matrix: Solid Analysis Batch: 17726 Analyte Chloride Lab Sample ID: LCS 880-17555/2- Matrix: Solid Analysis Batch: 17726 Analyte Chloride Chloride Chloride | 238 MSD Sample Result 238 | Qualifier MB MB esult Qualifier | Spike Added 248 Spike Added | | MSD Result 465.2 LCS Result | Qualifier MDL Unit mg/K | g Unit g Unit mg/Kg | D CI | D Pi lient | %Rec 92 Client S repared Sample %Rec 100 | 2: Matrix Sp Prep 7 %Rec. Limits 90 - 110 Gample ID: I Prep 7 - Analyz 01/26/22 7 FID: Lab Cc Prep 7 %Rec. Limits 90 - 110 | Type: S RPD 8 Method Type: S ed 0:14 S Type: S | RPD Limit 20 Blank Soluble Dil Fac 1 Sample Soluble |
| Chloride Lab Sample ID: 890-1843-A-19-E I Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: MB 880-17555/1-A Matrix: Solid Analysis Batch: 17726 Analyte Chloride Lab Sample ID: LCS 880-17555/2-Matrix: Solid Analysis Batch: 17726 Analyte Chloride Lab Sample ID: LCS 880-17555/2- | 238 MSD Sample Result 238 | Qualifier MB MB esult Qualifier | Spike Added 248 Spike Added | | MSD Result 465.2 LCS Result | Qualifier MDL Unit mg/K | g Unit g Unit mg/Kg | D CI | D Pi lient | %Rec 92 Client S repared Sample %Rec 100 | 2: Matrix Sp Prep 7 %Rec. Limits 90 - 110 Gample ID: I Prep 7 Analyz 01/26/22 7 ID: Lab Co Prep 7 %Rec. Limits 90 - 110 | Type: S RPD 8 Method Type: S ed 0:14 - ontrol S Type: S - I Samp | RPD Limit 20 Blank Soluble Dil Fac 1 Sample Soluble |
| Chloride Lab Sample ID: 890-1843-A-19-E I Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: MB 880-17555/1-A Matrix: Solid Analysis Batch: 17726 Analyte Chloride Lab Sample ID: LCS 880-17555/2- Matrix: Solid Analysis Batch: 17726 Analyte Chloride Lab Sample ID: LCSD 880-17555/3 Matrix: Solid | 238 MSD Sample Result 238 | Qualifier MB MB esult Qualifier | Spike Added 248 Spike Added | | MSD Result 465.2 LCS Result | Qualifier MDL Unit mg/K | g Unit g Unit mg/Kg | D CI | D Pi lient | %Rec 92 Client S repared Sample %Rec 100 | 2: Matrix Sp Prep 7 %Rec. Limits 90 - 110 Gample ID: I Prep 7 Analyz 01/26/22 7 ID: Lab Co Prep 7 %Rec. Limits 90 - 110 | Type: S RPD 8 Method Type: S ed 0:14 S Type: S | RPD Limit 20 Blank Soluble Dil Fac 1 Sample Soluble |
| Chloride Lab Sample ID: 890-1843-A-19-E I Matrix: Solid Analysis Batch: 17523 Analyte Chloride Lab Sample ID: MB 880-17555/1-A Matrix: Solid Analysis Batch: 17726 Analyte Chloride Lab Sample ID: LCS 880-17555/2- Matrix: Solid Analysis Batch: 17726 Analyte Chloride Lab Sample ID: LCSD 880-17555/3 Matrix: Solid | 238 MSD Sample Result 238 | Qualifier MB MB esult Qualifier | Spike Added 248 Spike Added 250 | | MSD Result 465.2 LCS Result 250.3 | Qualifier MDL Unit mg/K | g Unit g Unit mg/Kg | D CI | D Pi lient | %Rec 92 Client S repared Sample %Rec 100 | 2: Matrix Sp Prep 7 %Rec. Limits 90 - 110 ample ID: I Prep 7 4 ID: Lab Co Prep 7 %Rec. Limits 90 - 110 - ab Contro Prep 7 | Type: S RPD 8 Method Type: S ed 0:14 - ontrol S Type: S - I Samp | Coluble RPD Limit 20 Blank Soluble Dil Fac 1 Sample Soluble |
| Chloride Lab Sample ID: 890-1843-A-19-E I Matrix: Solid | 238 MSD Sample Result 238 | Qualifier MB MB esult Qualifier | Spike Added 248 Spike Added | | MSD Result 465.2 LCS Result 250.3 | Qualifier MDL Unit mg/K | g Unit g Unit mg/Kg | D CI | D Pi lient | %Rec 92 Client S repared Sample %Rec 100 | 2: Matrix Sp Prep 7 %Rec. Limits 90 - 110 Gample ID: I Prep 7 Analyz 01/26/22 7 ID: Lab Co Prep 7 %Rec. Limits 90 - 110 | Type: S RPD 8 Method Type: S ed 0:14 - Type: S - I Samp | RPD Limit 20 Blank Soluble Dil Fac 1 Sample Soluble |

QC Sample Results

| Client: WSP USA Inc. |
|-------------------------|
| Project/Site: RDX 17-26 |

Job ID: 890-1845-1 SDG: Rural Eddy County

Method: 300.0 - Anions, Ion Chromatography

| | | | | | | | | 011-014 | 0 | a second second | 0 | |
|---------------------------|---------|-----------|-------|-------|-----------|-------|--------|----------|--------------|-----------------|--------|---|
| ab Sample ID: 880-10439-A | -8-C MS | | | | | | | Client | Sample ID | | | |
| atrix: Solid | | | | | | | | | Prep | Type: So | oluble | |
| nalysis Batch: 17726 | 0 | • | 0 | | | | | | 2/ D | | | |
| • . | - | Sample | Spike | MS | | | _ | ~~ 5 | %Rec. | | | |
| alyte | | Qualifier | Added | | Qualifier | Unit | D | %Rec | Limits | | | |
| loride | 18100 | F1 | 4950 | 23170 | | mg/Kg | | 102 | 90 - 110 | | | |
| b Sample ID: 880-10439-A | | | | | | Cli | ent Sa | emple IF |): Matrix Sp | nike Dun | licato | |
| atrix: Solid | | | | | | 01 | en o | | | Type: Sc | | |
| nalysis Batch: 17726 | | | | | | | | | 1.00 | Type. et | 0100.0 | 1 |
| narysis Daton. 17720 | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD | |
| a h ta | • | Qualifier | Added | | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | Ī |
| aivie | Result | | | | | | | | | | | |
| | | | 4950 | | F1 | mg/Kg | | 117 | 90 - 110 | 3 | 20 | |
| | 18100 | | | 23920 | F1 | mg/Kg | | 117 | 90 - 110 | 3 | 20 | |
| | | | | | F1 | mg/Kg | | 117 | 90 - 110 | 3 | 20 | |
| • | | | | | F1 | mg/Kg | | 117 | 90 - 110 | 3 | 20 | |
| | | | | | F1 | mg/Kg | | 117 | 90 - 110 | 3 | 20 | |
| | | | | | F1 | mg/Kg | | 117 | 90 - 110 | 3 | 20 | |
| | | | | | F1 | mg/Kg | | 117 | 90 - 110 | 3 | 20 | |
| | | | | | F1 | mg/Kg | | 117 | 90 - 110 | 3 | 20 | |
| loride | | | | | F1 | mg/Kg | | 117 | 90 - 110 | 3 | 20 | |

PH02

PH02

PH03

PH03

PH04

PH04

Method Blank

Matrix Spike

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

QC Association Summary

Client: WSP USA Inc. Project/Site: RDX 17-26 Job ID: 890-1845-1 SDG: Rural Eddy County

GC VOA

890-1845-3

890-1845-4

890-1845-5

890-1845-6

890-1845-7

890-1845-8

MB 880-17218/5-A

LCS 880-17218/1-A

LCSD 880-17218/2-A

880-10289-A-115-F MS

Prep Batch: 17131

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch | |
|-------------------|-----------------------|-----------------------|-----------------|-----------------------|------------|--|
| MB 880-17131/5-A | Method Blank | Total/NA | Solid | 5035 | | |
| | | | | | | |
| Prep Batch: 17218 | | | | | | |
| Prep Batch: 17218 | Client Sample ID | Prep Type | Matrix | Method | Prep Batch | |
| Г. | Client Sample ID PH01 | Prep Type Total/NA | Matrix Solid | <u>Method</u> 5035 | Prep Batch | |

Total/NA

Solid

5035

5035

5035

5035

5035

5035

5035

5035

5035

5035

5035

| L | 880-10289-A-115-G MSD |
|---|-----------------------|
| A | Analysis Batch: 17325 |

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-----------|--------|--------|------------|
| 890-1845-1 | PH01 | Total/NA | Solid | 8021B | 17218 |
| 890-1845-2 | PH01 | Total/NA | Solid | 8021B | 17218 |
| 890-1845-3 | PH02 | Total/NA | Solid | 8021B | 17218 |
| 890-1845-4 | PH02 | Total/NA | Solid | 8021B | 17218 |
| 890-1845-5 | PH03 | Total/NA | Solid | 8021B | 17218 |
| 890-1845-6 | PH03 | Total/NA | Solid | 8021B | 17218 |
| 890-1845-7 | PH04 | Total/NA | Solid | 8021B | 17218 |
| 890-1845-8 | PH04 | Total/NA | Solid | 8021B | 17218 |
| MB 880-17131/5-A | Method Blank | Total/NA | Solid | 8021B | 17131 |
| MB 880-17218/5-A | Method Blank | Total/NA | Solid | 8021B | 17218 |
| LCS 880-17218/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 17218 |
| LCSD 880-17218/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 17218 |
| 880-10289-A-115-F MS | Matrix Spike | Total/NA | Solid | 8021B | 17218 |
| 880-10289-A-115-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 17218 |

Analysis Batch: 17647

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1845-1 | PH01 | Total/NA | Solid | Total BTEX | |
| 890-1845-2 | PH01 | Total/NA | Solid | Total BTEX | |
| 890-1845-3 | PH02 | Total/NA | Solid | Total BTEX | |
| 890-1845-4 | PH02 | Total/NA | Solid | Total BTEX | |
| 890-1845-5 | PH03 | Total/NA | Solid | Total BTEX | |
| 890-1845-6 | PH03 | Total/NA | Solid | Total BTEX | |
| 890-1845-7 | PH04 | Total/NA | Solid | Total BTEX | |
| 890-1845-8 | PH04 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Analysis Batch: 17331

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-1845-1 | PH01 | Total/NA | Solid | 8015B NM | 17332 |

Eurofins Carlsbad

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QC Association Summary

Client: WSP USA Inc. Project/Site: RDX 17-26

GC Semi VOA (Continued)

Analysis Batch: 17331 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-1845-2 | PH01 | Total/NA | Solid | 8015B NM | 17332 |
| 890-1845-3 | PH02 | Total/NA | Solid | 8015B NM | 17332 |
| 890-1845-4 | PH02 | Total/NA | Solid | 8015B NM | 17332 |
| 890-1845-5 | PH03 | Total/NA | Solid | 8015B NM | 17332 |
| 890-1845-6 | PH03 | Total/NA | Solid | 8015B NM | 17332 |
| 890-1845-7 | PH04 | Total/NA | Solid | 8015B NM | 17332 |
| 890-1845-8 | PH04 | Total/NA | Solid | 8015B NM | 17332 |
| MB 880-17332/1-A | Method Blank | Total/NA | Solid | 8015B NM | 17332 |
| LCS 880-17332/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 17332 |
| LCSD 880-17332/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 17332 |
| 880-10347-A-1-G MS | Matrix Spike | Total/NA | Solid | 8015B NM | 17332 |
| 880-10347-A-1-H MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 17332 |

Prep Batch: 17332

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-1845-1 | PH01 | Total/NA | Solid | 8015NM Prep | |
| 890-1845-2 | PH01 | Total/NA | Solid | 8015NM Prep | |
| 890-1845-3 | PH02 | Total/NA | Solid | 8015NM Prep | |
| 890-1845-4 | PH02 | Total/NA | Solid | 8015NM Prep | |
| 890-1845-5 | PH03 | Total/NA | Solid | 8015NM Prep | |
| 890-1845-6 | PH03 | Total/NA | Solid | 8015NM Prep | |
| 890-1845-7 | PH04 | Total/NA | Solid | 8015NM Prep | |
| 890-1845-8 | PH04 | Total/NA | Solid | 8015NM Prep | |
| MB 880-17332/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-17332/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-17332/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-10347-A-1-G MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-10347-A-1-H MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 17641

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1845-1 | PH01 | Total/NA | Solid | 8015 NM | |
| 890-1845-2 | PH01 | Total/NA | Solid | 8015 NM | |
| 890-1845-3 | PH02 | Total/NA | Solid | 8015 NM | |
| 890-1845-4 | PH02 | Total/NA | Solid | 8015 NM | |
| 890-1845-5 | PH03 | Total/NA | Solid | 8015 NM | |
| 890-1845-6 | PH03 | Total/NA | Solid | 8015 NM | |
| 890-1845-7 | PH04 | Total/NA | Solid | 8015 NM | |
| 890-1845-8 | PH04 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 17337

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-1845-1 | PH01 | Soluble | Solid | DI Leach | |
| MB 880-17337/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-17337/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-17337/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-1843-A-19-D MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-1843-A-19-E MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Job ID: 890-1845-1 SDG: Rural Eddy County

Client Sample ID

PH02

PH02

PH03

PH03

PH04

PH04

Method Blank

Matrix Spike

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

QC Association Summary

Prep Type

Soluble

Client: WSP USA Inc. Project/Site: RDX 17-26

Leach Batch: 17338

Lab Sample ID

890-1845-3

890-1845-4

890-1845-5

890-1845-6

890-1845-7

890-1845-8

MB 880-17338/1-A

LCS 880-17338/2-A

LCSD 880-17338/3-A

880-10291-A-49-G MS

HPLC/IC

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Prep Batch

Job ID: 890-1845-1 SDG: Rural Eddy County

Method

DI Leach

Matrix

Solid

11 12 13

| 8 |
|---|
| 9 |
| |
| |

880-10291-A-49-H MSD Analysis Batch: 17519

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-1845-3 | PH02 | Soluble | Solid | 300.0 | 17338 |
| 890-1845-4 | PH02 | Soluble | Solid | 300.0 | 17338 |
| 890-1845-5 | PH03 | Soluble | Solid | 300.0 | 17338 |
| 890-1845-6 | PH03 | Soluble | Solid | 300.0 | 17338 |
| 890-1845-7 | PH04 | Soluble | Solid | 300.0 | 17338 |
| 890-1845-8 | PH04 | Soluble | Solid | 300.0 | 17338 |
| MB 880-17338/1-A | Method Blank | Soluble | Solid | 300.0 | 17338 |
| LCS 880-17338/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 17338 |
| LCSD 880-17338/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 17338 |
| 880-10291-A-49-G MS | Matrix Spike | Soluble | Solid | 300.0 | 17338 |
| 880-10291-A-49-H MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 17338 |

Analysis Batch: 17523

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-1845-1 | PH01 | Soluble | Solid | 300.0 | 17337 |
| MB 880-17337/1-A | Method Blank | Soluble | Solid | 300.0 | 17337 |
| LCS 880-17337/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 17337 |
| LCSD 880-17337/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 17337 |
| 890-1843-A-19-D MS | Matrix Spike | Soluble | Solid | 300.0 | 17337 |
| 890-1843-A-19-E MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 17337 |

Leach Batch: 17555

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-1845-2 | PH01 | Soluble | Solid | DI Leach | |
| MB 880-17555/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-17555/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-17555/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-10439-A-8-C MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-10439-A-8-D MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 17726

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1845-2 | PH01 | Soluble | Solid | 300.0 | 17555 |
| MB 880-17555/1-A | Method Blank | Soluble | Solid | 300.0 | 17555 |
| LCS 880-17555/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 17555 |
| LCSD 880-17555/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 17555 |
| 880-10439-A-8-C MS | Matrix Spike | Soluble | Solid | 300.0 | 17555 |

QC Association Summary

| | • |
|-------------------------|------------------------|
| Client: WSP USA Inc. | Job ID: 890-1845-1 |
| Project/Site: RDX 17-26 | SDG: Rural Eddy County |

HPLC/IC (Continued)

Analysis Batch: 17726 (Continued)

| HPLC/IC (Continue | d) | | | | |
|-----------------------|------------------------|-----------|--------|--------|------------|
| Analysis Batch: 17726 | (Continued) | | | | |
| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
| 880-10439-A-8-D MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 17555 |
| | | | | | |
| | | | | | |
| | | | | | |
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| | | | | | |

Client: WSP USA Inc. Project/Site: RDX 17-26

Client Sample ID: PH01 Date Collected: 01/13/22 08:50

Date Received: 01/18/22 13:54

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 17218 | 01/19/22 13:45 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 17325 | 01/21/22 04:10 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 17647 | 01/24/22 17:08 | AJ | XEN MID |
| Fotal/NA | Analysis | 8015 NM | | 1 | | | 17641 | 01/24/22 16:33 | AJ | XEN MID |
| lotal/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 17332 | 01/20/22 08:47 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 17331 | 01/21/22 01:32 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 17337 | 01/20/22 09:19 | СН | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 17523 | 01/22/22 21:47 | СН | XEN MID |

Client Sample ID: PH01

Date Collected: 01/13/22 08:52

Date Received: 01/18/22 13:54

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 17218 | 01/19/22 13:45 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 17325 | 01/21/22 04:30 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 17647 | 01/24/22 17:08 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 17641 | 01/24/22 16:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 17332 | 01/20/22 08:47 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 17331 | 01/21/22 01:53 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 17555 | 01/24/22 10:16 | СН | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 17726 | 01/26/22 15:58 | СН | XEN MID |

Client Sample ID: PH02

Date Collected: 01/13/22 09:30

Date Received: 01/18/22 13:54

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.04 g | 5 mL | 17218 | 01/19/22 13:45 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 17325 | 01/21/22 04:50 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 17647 | 01/24/22 17:08 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 17641 | 01/24/22 16:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 17332 | 01/20/22 08:47 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 17331 | 01/21/22 02:13 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 17338 | 01/20/22 09:22 | СН | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 17519 | 01/22/22 18:37 | CH | XEN MID |

Client Sample ID: PH02 Date Collected: 01/13/22 09:32 Date Received: 01/18/22 13:54

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 17218 | 01/19/22 13:45 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 17325 | 01/21/22 05:11 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 17647 | 01/24/22 17:08 | AJ | XEN MID |

Job ID: 890-1845-1 SDG: Rural Eddy County

Lab Sample ID: 890-1845-1 Matrix: Solid

5 9

Lab Sample ID: 890-1845-2 Matrix: Solid

| | 3 |
|--|---|
| | |
| | |

Lab Sample ID: 890-1845-3

Matrix: Solid

Lab Sample ID: 890-1845-4 Matrix: Solid

Job ID: 890-1845-1

SDG: Rural Eddy County

Lab Chronicle

Client: WSP USA Inc. Project/Site: RDX 17-26

Client Sample ID: PH02

Date Collected: 01/13/22 09:32 Date Received: 01/18/22 13:54

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Ргер Туре | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8015 NM | | 1 | | | 17641 | 01/24/22 16:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 17332 | 01/20/22 08:47 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 17331 | 01/21/22 02:34 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 17338 | 01/20/22 09:22 | СН | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 17519 | 01/22/22 18:49 | СН | XEN MID |

Client Sample ID: PH03

Date Collected: 01/13/22 11:02 Date Received: 01/18/22 13:54

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 17218 | 01/19/22 13:45 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 17325 | 01/21/22 05:31 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 17647 | 01/24/22 17:08 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 17641 | 01/24/22 16:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 17332 | 01/20/22 08:47 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 17331 | 01/21/22 02:54 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 17338 | 01/20/22 09:22 | СН | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 17519 | 01/22/22 19:00 | СН | XEN MID |

Client Sample ID: PH03

Date Collected: 01/13/22 11:05 Date Received: 01/18/22 13:54

Batch Batch Dil Initial Final Batch Prepared Ргер Туре Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.01 g 5 mL 17218 01/19/22 13:45 KL XEN MID Total/NA 8021B 5 mL 5 mL 17325 01/21/22 05:52 KL XEN MID Analysis 1 Total BTEX Total/NA Analysis 1 17647 01/24/22 17:08 AJ XEN MID Total/NA Analysis 8015 NM 17641 01/24/22 16:33 AJ XEN MID 1 Total/NA Prep 8015NM Prep 10.01 g 10 mL 17332 01/20/22 08:47 DM XEN MID Total/NA Analysis 8015B NM 17331 01/21/22 03:14 A.I XEN MID 1 Soluble Leach DI Leach 5.05 g 50 mL 17338 01/20/22 09:22 СН XEN MID Soluble Analysis 300.0 17519 01/22/22 19:12 CH XEN MID 1

Client Sample ID: PH04

Date Collected: 01/13/22 09:50 Date Received: 01/18/22 13:54

| _ | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|----------------------|------------------|-------------------------|-----|--------|---------|--------|----------------|----------------------------------|----------|--------------------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 17218 | 01/19/22 13:45 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 17325 | 01/21/22 06:12 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 17647 | 01/24/22 17:08 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 17641 | 01/24/22 16:33 | AJ | XEN MID |
| Total/NA Total/NA | Prep Analysis | 8015NM Prep 8015B NM | | 1 | 10.00 g | 10 mL | 17332 17331 | 01/20/22 08:47 01/21/22 03:35 | DM AJ | XEN MID XEN MID |

Eurofins Carlsbad

Matrix: Solid

Lab Sample ID: 890-1845-4 Matrix: Solid 5

Lab Sample ID: 890-1845-5 9 Matrix: Solid

Lab Sample ID: 890-1845-6

Lab Sample ID: 890-1845-7

Matrix: Solid

Lab Chronicle

Client: WSP USA Inc. Project/Site: RDX 17-26

Client Sample ID: PH04

Date Collected: 01/13/22 09:50 Date Received: 01/18/22 13:54

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|----------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 17338 | 01/20/22 09:22 | СН | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 17519 | 01/22/22 19:48 | СН | XEN MID |

Client Sample ID: PH04

Date Collected: 01/13/22 09:52 Date Received: 01/18/22 13:54

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Ргер Туре | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 17218 | 01/19/22 13:45 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 17325 | 01/21/22 06:33 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 17647 | 01/24/22 17:08 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 17641 | 01/24/22 16:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 17332 | 01/20/22 08:47 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 17331 | 01/21/22 03:56 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 17338 | 01/20/22 09:22 | СН | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 17519 | 01/22/22 20:00 | СН | XEN MID |

Laboratory References:

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

SDG: Rural Eddy County Lab Sample ID: 890-1845-7

Lab Sample ID: 890-1845-8

Job ID: 890-1845-1

Matrix: Solid

Matrix: Solid

10

| Job ID: 890-1845-1 |
|------------------------|
| SDG: Rural Eddy County |

Laboratory: Eurofins Midland

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

| Ithority | Pr | ogram | Identification Number | Expiration Date |
|--|---------------------------------|---------------------------------|--|---------------------------|
| xas | NE | ELAP | T104704400-21-22 | 06-30-22 |
| The following analytes | are included in this report, bu | it the laboratory is not certif | ied by the governing authority. This list ma | ay include analytes for v |
| the agency does not o | | Matrix | Arrelite | |
| the agency does not o Analysis Method | fer certification. Prep Method | Matrix | Analyte | |
| 0, | | Matrix Solid | Analyte Total TPH | |

Method Summary

Client: WSP USA Inc. Project/Site: RDX 17-26

Job ID: 890-1845-1 SDG: Rural Eddy County

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Eurofins Carlsbad

Page 105 of 110

Sample Summary

Client: WSP USA Inc. Project/Site: RDX 17-26 Job ID: 890-1845-1 SDG: Rural Eddy County

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth | |
|---------------|------------------|--------|----------------|----------------|-------|----------|
| 890-1845-1 | PH01 | Solid | 01/13/22 08:50 | 01/18/22 13:54 | 0.5 | A |
| 890-1845-2 | PH01 | Solid | 01/13/22 08:52 | 01/18/22 13:54 | 1 | |
| 890-1845-3 | PH02 | Solid | 01/13/22 09:30 | 01/18/22 13:54 | 0.5 | 5 |
| 890-1845-4 | PH02 | Solid | 01/13/22 09:32 | 01/18/22 13:54 | 1 | J |
| 890-1845-5 | PH03 | Solid | 01/13/22 11:02 | 01/18/22 13:54 | 0.5 | |
| 890-1845-6 | PH03 | Solid | 01/13/22 11:05 | 01/18/22 13:54 | 1 | |
| 890-1845-7 | PH04 | Solid | 01/13/22 09:50 | 01/18/22 13:54 | 0.5 | |
| 890-1845-8 | PH04 | Solid | 01/13/22 09:52 | 01/18/22 13:54 | 1 | |
| | | | | | | 8 |
| | | | | | | |
| | | | | | | 11 |
| | | | | | | 12 |
| | | | | | | 13 |
| | | | | | | |

| | | Environment Testing | sting | Midle | (CEA) XT bu | 704-5440. Sa | Midland TX (432) 704-5440. San Antonio. TX (210) 509-3334 | riland TX (432) 704-5440 San Antonio. TX (210) 509-3334 | Work | Work Order No: | |
|---|---|---|---|--|--|---|---|--|--|--|-------------------------------|
| | Xenco | | 5 | 11 | aso. TX (915 | 585-3443. Lu | El Paso. TX (915) 585-3443. Lubbock. TX (806) 794-1296 | 794-1296 | | | |
| | | | | Ĥ | bs, NM (575 | 392-7550, C | Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 |) 988-3199 | ~~~~ | www.xenco.com Pa | Page of |
| Project Manager: | Toceoh He | Hernand | dez | Bill to: (if different) | ent) | E H | Rateu | | > | mm | ts |
| Company Name: | 4 | | | Company Name: | e: | Xdm | Eneral | | Program: UST/PST | UST/PST PRP Brownfields RRC | |
| Address: | 3300 North | A | Street | Address: | | 5315 | Buena | Uista Dr. | State of Project: | | |
| City, State ZIP: | MA | 7 | 705 | City, State ZIP: | | Carls | Carlsbad, NM | M BBUNK | Reporting: Level II | Level III | 🗌 TRRP 🔲 Level IV |
| Phone: | 1 | 329 | Email: | anna | phere | 30 | sp. com | - | Deliverables: EDD | ADaPT | Other: |
| Project Name: | 80X 17-26 | | Turn | Turn Around | 0 | | | ANALYSIS REQUEST | UEST | ۵. | Preservative Codes |
| ber: | se clerke | 12/ +/21: | Adoutine | Rush | Pres. Code | | | | | None: NO | NO DI Water: H ₂ O |
| | Rural Eddy Co | Country | Due Date: | | | (* | (@ | | | Cool: Cool | ool MeOH: Me |
| Sampler's Name: | Byey | 2 10 | TAT starts the the lab, if rect | TAT starts the day received by the lab, if received by 4:30pm | | (8) ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | d de | | | HCL:HC H,S0 ₄ :H, | C HNO ₃ :HN |
| DI F RECEIPT | Temp Blank | NCAX | Wet Ice: | Neo No | ters | | - | | | H3PO 4: HP | |
| Samples Received Intact: | - | Thermometer ID: | er ID: | Jaw | - S | _ | _ | | | NaHSC | NaHSO 4: NABIS |
| Cooler Custody Seals: | Ye | Correction Factor: | actor: | 2.0- | | | _ | | | Na ₂ S ₂ | Na 25 203: NaSO 3 |
| Sample Custody Seals: | Yes No N/A | Temperature Reading: | e Reading: | 2 | Т | | - | 890-1845 Chain of Custody | f Custody | Zn Ace | Zn Acetate+NaOH: Zn |
| Total Containers: | > | Corrected T | Corrected Temperature: | 21 | Т | | _ | - | | NaOH | NaOH+Ascorbic Acid: SAPC |
| Sample Identification | cation Matrix | Date Sampled | Time Sampled | Depth Grab/ Comp | / #of p Cont | BIE | | | | S | Sample Comments |
| ESCOB PHON | 1 3 | 1/13/22 | Ø85Ø | d.S' Grab | - 9 | | / | | | (cost | Cost Curter #: |
| | 1 | | \$852 | 1 1 | - | | | | | 1000 | 1002111001 |
| 2.94Hd | 2 | _ | \$93\$ | 6.5' | - | | | | _ | | |
| 2 AHd | 2 | | \$932 | .1 | - | \geq | | - | | | |
| PHP83 | 3 | | 1192 | 0.5' | - | \leq | | _ | | | |
| PH03 | 2 | | 1105 | 1 | - | | | - | | _ | |
| PH441 | | | \$950 | \$.5' | - | | | - | | | |
| PAHA | → | ~ | 2.560 | > | - | | | | | | |
| - | | | | | | | K | | _ | | |
| | | | | | | 7 | 0. | | _ | | |
| Total 200.7 / 6010 rcle Method(s) ar | Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed | | 8RCRA 13PPM TCLP / SPLP | A 13PPM Texas 11 AI 5 TCLP / SPLP 6010 : 8RCRA | AI Sb / | vs Ba Be As Ba Be | B Cd Ca C cd Cr Co | Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni v Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U | K Se | Ag SiO ₂ Na Sr Tl Sn Hg: 1631 / 245.1 / 7470 | U V Zn /7471 |
| e: Signature of this docur Mce. Eurofins Xenco will rofins Xenco. A minimum | Active: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the coamples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to clicumstances beyond the control of service. A minimum charge of \$85.00 will be applied to each ample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. | ples constitutes a ples and shall not d to each project a | valid purchase ord assume any respo ind a charge of \$5 | er from client comp nsibility for any loss for each sample sut | any to Eurofin es or expense: mitted to Euro | Xenco, its affi Incurred by th fins Xenco, bu | ates and subcontr e client if such loss not analyzed. The | client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions for any losses or expenses incurred by the clientif auch losses are due to clicrumstances beyond the control n sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously nego | rms and conditions beyond the control ess previously negotiated. | | |
| Relinquished by: (Signature) | Signature) | Received | Received by: (Signature) | (2 | | Date/Time | Rel | Relinquished by: (Signature) | ture) Received I | Received by: (Signature) | Date/Time |
| (yman 6 | Juen 1 | A | R | | 3/11 | 1947 1 | 5U 2 | | | | |
| | · · · · | 2 | | | - | | 4 | | | | - |
| | | | | | - | | 4 | | | | |

Released to Imaging: 5/4/2022 11:52:07 AM

Job Number: 890-1845-1 SDG Number: Rural Eddy County

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1845 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: 890-1845-1 SDG Number: Rural Eddy County List Source: Eurofins Midland

List Creation: 01/19/22 01:26 PM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1845 List Number: 2 Creator: Kramer, Jessica

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

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: |
|---------------------------|---|
| WPX Energy Permian, LLC | 246289 |
| Devon Energy - Regulatory | Action Number: |
| Oklahoma City, OK 73102 | 94784 |
| | Action Type: |
| | [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Create By | | Condition Date |
|--------------|---|-------------------|
| jnob | i Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A. | 5/4/2022 |

CONDITIONS

Action 94784