Received by OCD: 7/25/2019 4:56:59 PM

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    |  |
|----------------|--|
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

## Release Notification 4

### 4KEK3-190725-C-1410

#### **Responsible Party**

| Responsible Party XTO Energy                              | OGRID 5380                     |
|---|--------------------------------|
| Contact Name Kyle Littrell                                | Contact Telephone 432-221-7331 |
| Contact email Kyle_Littrell@xtoenergy.com                 | Incident # (assigned by OCD)   |
| Contact mailing address 522 W. Mermod, Carlsbad, NM 88220 |                                |

#### **Location of Release Source**

(NAD 83 in decimal degrees to 5 decimal places)

Longitude

-103.31849

Latitude 32.56058

| Site Name EMSU B Tank Battery    | Site Type Bulk Storage and Separation Facility |
|----------------------------------|--|
| Date Release Discovered 4/4/2019 | API# (if applicable) N/A                       |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| A           | 23      | 208      | 36E   | Lea    |

Surface Owner: State Federal Tribal Private (Name: BLM

#### Nature and Volume of Release

| X Crude Oil      | Volume Released (bbls) 7.89  | Volume Recovered (bbls) 7.75            |
|------------------|--|---|
| Produced Water   | Volume Released (bbls)   | Volume Recovered (bbls)                 |
|                  | Is the concentration of total dissolved solids (TDS) 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

A 4 inch flange separated from a nipple on trunkline coming from freewater knockout and tester to the heater treater. A contract crew was onsite performing work when fluids were released to the well pad. The crew built a berm to contain the release. A vacuum truck recovered all free fluids. Additional third party resources have been retained to assist with remediation.

Form C-141

N/A

Page 2

#### State of New Mexico Oil Conservation Division

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

| Was this a major<br>release as defined by<br>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 n  | notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?                  |
| If YES, was immediate n<br>N/A                                   | notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?                  |
| Contraction and Automatics and Automatics and Automatics and     |   |
| Contraction and Automatics and Automatics and Automatics and     | notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Initial Response |

X 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: Amy C. Ruth     | Title:          |
|-------------------------------|-----------------|
| Signature. Nue Luco           | Date: 4/16/2019 |
| email: Amy Ruth@xtdenergy.com | Telephone:      |
|                               |                 |
| OCD Only                      |                 |
| Received by:                  | Date:           |
|                               | energenoor      |

| Location:      | EMSU B Tank                          | Battery |       |        |
|----------------|--------------------------------------|---------|-------|--------|
| Spill Date:    | 4/4/20                               | 19      |       |        |
|                | OR                                   |         |       |        |
| Approximate A  | Approximate Area= 32 ft <sup>2</sup> |         |       |        |
| Average Satura | ition (or depth) of Spill=           |         | 10.00 | inches |
|                |                                      |         |       |        |
| Approximate C  | oil %                                |         | 100   |        |

| Approximate Oil %             | 100  |      |
|-------------------------------|------|------|
| Average Porosity Factor=      | 0.03 |      |
| Approximate Volume Recovered= | 7.75 | bbls |

| VOLUME OF LEAK        |      |         |
|-----------------------|------|---------|
| Total Oil=            | 7.89 | barrels |
| Total Produced Water= | 0    | barrels |
| VOLUME RECOVI         | ERED |         |
| Total Oil=            | 7.75 | barrels |
| Total Produced Water= | 0    | barrels |

From:Rose-Coss, Dylan H, EMNRDTo:Ruth, AmySubject:RE: Initial C-141 - EMSU B Battery release 4-4-19Date:Wednesday, May 01, 2019 12:13:04 PMAttachments:image001.png

#### RE: XTO Energy \* EMSU B Battery\* DOR: 04/04/0219

All,

The OCD tracking number for this release event is **<u>1RP-5446</u>**.

Thank you,

#### **Dylan Rose-Coss**

*Environmental Scientist* Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

(505) 476-3488

From: Ruth, Amy <Amy\_Ruth@xtoenergy.com>
Sent: Tuesday, April 16, 2019 11:08 AM
To: EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>; Crystal Weaver
<caweaver@blm.gov>; Deborah McKinney <dmckinne@blm.gov>
Cc: Meadows, Derrick <Derrick\_Meadows@xtoenergy.com>; Goodman, Ronald
<Ronald\_Goodman@xtoenergy.com>; Littrell, Kyle <Kyle\_Littrell@xtoenergy.com>; Foust, Bryan
<Bryan\_Foust@xtoenergy.com>
Subject: [EXT] Initial C-141 - EMSU B Battery release 4-4-19

Good Morning,

Attached is an initial form C-141 with spill calculations detailing a fluid release event associated with the referenced facility. Please contact us with any questions or concerns. Thank you.

Respectfully,

Amy C. Ruth Permian Division Environmental Coordinator 3104 E. Greene Street | Carlsbad, NM 88220 | M: 432.661.0571 | O: 575.689.3380



This document may contain information that is privileged, confidential and exempt from disclosure under applicable law. If you are not the intended recipient, you are notified that any unauthorized disclosure, copying, distribution or action on/of the contents of this document is prohibited.

Form C-141 Page 3 State of New Mexico Oil Conservation Division

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

## Site Assessment/Characterization

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

| What is the shallowest depth to groundwater beneath the area affected by the release?   | <u>46 (ft bgs)</u> |
|---|--------------------|
| 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 <b>not</b> 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

Data table of soil contaminant concentration data

 $\boxtimes$  Depth to water determination

Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release

Boring or excavation logs *(Release was on well pad – caliche – non-native soil)* 

Photographs including date and GIS information

Topographic/Aerial maps

Laboratory data including chain of custody

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

| Form C-141  | State of New Mexico   |  |  | Incident ID   |   |                                  |
|---|---|--|--|---|---|----------------------------------|
| Page 4  | Oil Conservation Division   |  |  | District RP   |   |                                  |
|   |   |  |  | Facility ID   |   |                                  |
|   |   |  |  | Application ID  |   |                                  |
| regulations all opers<br>public health or the<br>failed to adequately<br>addition, OCD acce<br>and/or regulations.<br>Printed Name:<br>Signature:<br>email:Shelby | t the information given above is true and complete to the ators are required to report and/or file certain release notion environment. The acceptance of a C-141 report by the Conversigate and remediate contamination that pose a three ptance of a C-141 report does not relieve the operator of Shelby Pennington Shelby Pennington pennington@xtoenergy. com | ifications an<br>OCD does n<br>eat to groun.<br>responsibil<br>Title:<br>Date: | nd perform co<br>not relieve the<br>dwater, surfac<br>lity for compli<br>Environm<br>7/ 25/ 19 | rrective actions for rele<br>operator of liability sh<br>water, human health<br>ance with any other fe<br>ental Coordinator | eases which may<br>ould their operati<br>or the environme<br>deral, state, or loo | endanger<br>ions have<br>ent. In |
| OCD Only  |   |  |  |   |   |                                  |
| Received by:  |   | D  | Date:  |   |   |                                  |

Form C-141 Page 5 State of New Mexico Oil Conservation Division

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

Detailed description of proposed remediation technique

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

## **Remediation Plan**

| <ul> <li>Scaled sitemap with GPS coordinates showing delineation points</li> <li>Estimated volume of material to be remediated</li> <li>Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>  |
|--|
| <b>Deferral Requests Only:</b> Each of the following items must be confirmed as part of any request for deferral of remediation.   |
| Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.   |
| Extents of contamination must be fully delineated. Unable to achieve full vertical delineation at this facility due to safety concerns associated with subsurface lines and vessels in the immediate vicinity of the release location.   |
| Contamination does not cause an imminent risk to human health, the environment, or groundwater. Although, full vertical delineation was infeasible, soil sampling strongly indicated decreasing concentrations of constituents of concern with depth. BTEX was below regulatory limits at all sample points. Chloride was vertically delineated. And TPH decreased with depth to only 177-ppm at the 12'bgs location associated with the source of the release.  |
| 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.         Shelby Pennington       Title:         Environmental Coordinator         Signature:       Date:         7/ 25/ 19         email:       shelby_pennington@xtoenergy. com |
| OCD Only   |
| Received by:         Date:   |
| Approved Approved with Attached Conditions of Approval Denied Deferral Approved  |
| Signature: Date:   |

State of New Mexico Oil Conservation Division

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

## Closure

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

| Closure Report Attachment Checklist: Each of the following   | items must be included in the closure report.  |
|--|--|
| $\Box$ A scaled site and sampling diagram as described in 19.15.29.  | 11 NMAC  |
| Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)  | s of the liner integrity if applicable (Note: appropriate OCD District office  |
| Laboratory analyses of final sampling (Note: appropriate OD  | C District office must be notified 2 days prior to final sampling)   |
| Description of remediation activities  |  |
|  |  |
| and regulations all operators are required to report and/or file certain<br>may endanger public health or the environment. The acceptance of<br>should their operations have failed to adequately investigate and re-<br>human health or the environment. In addition, OCD acceptance of | ations. The responsible party acknowledges they must substantially<br>onditions that existed prior to the release or their final land use in                                 |
| Printed Name:  | Title:   |
| Signature:   | Date:  |
| email:   | Telephone:   |
|  |  |
| OCD Only   |  |
| Received by:   | Date:  |
|  | of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations. |
| Closure Approved by:   | Date:  |
| Printed Name:  | Title:   |
|  |  |

JULY 25, 2019

## 4KEK3-190725-C-1410



## SITE CHARACTERIZATION REPORT AND REMEDIATION DEFERRAL REQUEST XTO ENERGY, INC. - EMSU B TANK BATTERY 1RP-5446

SITE CHARACTERIZATION REPORT AND REMEDIATION DEFERRAL REQUEST XTO ENERGY, INC. - EMSU B TANK BATTERY Sport Environmental Services, LLC



July 25, 2019

Environmental Specialist Team New Mexico Oil Conservation Division District 1 (Hobbs) 1625 N. French Dr. Hobbs, NM 88240

Re: Site Characterization Report and Remediation Deferral Request XTO Energy, Inc.
EMSU B Tank Battery RP #: 1RP-5446
Approximate Geographic Coordinates: 32.56508°N, -103.31849°W Unit Letter P, Section 23, Township 20S, Range 36E
Lea County, New Mexico

Dear NMOCD Environmental Specialists:

Sport Environmental Services, LLC is submitting, on behalf of XTO Energy, Inc. (XTO or Client), a Site Characterization Report and Remediation Deferral Request for the EMSU B Tank Battery (EMSU B Tank Battery or subject site) where a release occurred when a 4-inch fiberglass flange separated from a 4-inch nipple on a trunkline coming from a freewater knockout and tester to a heater treater on the well pad. The total volume of this release was reported to be 7.89 barrels -- of which 7.75 barrels were recovered. A contract crew was present at the subject site and performing work when the release occurred on April 4, 2019. The crew built a berm to contain the release and notified production foreman. The release was isolated and a vacuum truck was sent to location to recover all free fluids. Impacts from the release were limited due to the client's rapid response.

A request for remediation deferral is being made due to contamination presence in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. No areas outside of the active well pad that would require immediate and complete remediation were impacted by this release. The C-141 Form associated with this deferral request is available in **Attachment A**.

#### Site Assessment & Characterization

As part of site assessment and characterization of the site, aerial imagery was evaluated for the presence of major watercourses within a 0.5-mile radius of the release site. Aerial imagery demonstrating the absence of surface water within a 0.5-mile radius of the release site can be found within **Attachment B**.

A groundwater depth evaluation was performed as well. The NMOSE and USGS sources were reviewed for groundwater depth information. The findings were dated and at a significant distance from the release site. The Client provided groundwater depth data associated with a nearby site that was in closer geographic proximity and more current than the available data on NMOSE and USGS databases. Please see **Figure 1** on the following page. This established groundwater depth at the site to be approximately 46 feet below ground surface (bgs). Therefore, the appropriate remediation standard as specified in the NMOCD Table 1 (NMAC 19.15.29.11) will be applied.

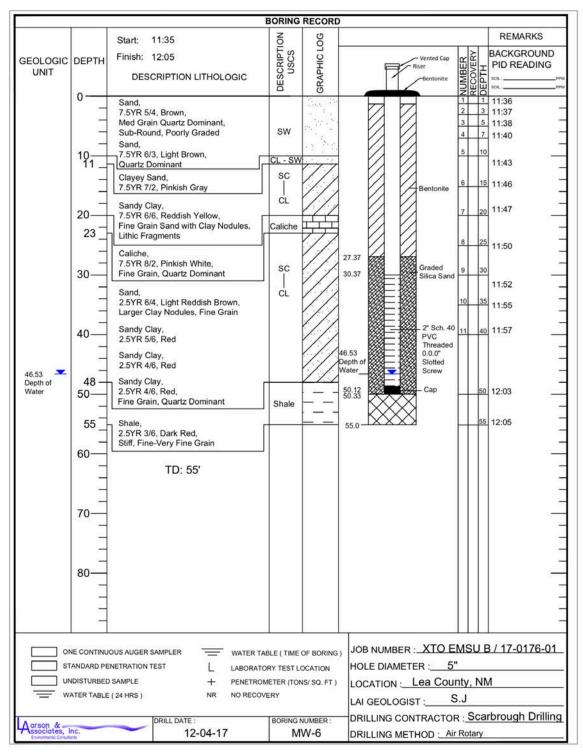


Figure 1.

Site characterization by means of horizontal and vertical delineation sampling was performed. The release footprint was mapped with a GPS device to generate a Release Site Plan denoting sample location placement as shown in **Attachment C.** 

On April 23, 2019, hand-augering was performed inside the active facility, as required due to safety concerns, to obtain discrete depth soil samples. When Sport Environmental was present at the subject site, the excavated area associated with the release location was open – this made it possible for soil samples to be collected to a maximum depth of approximately 12 feet below ground surface ('bgs). Sampling to this depth may not have otherwise been possible on account of the hard caliche layer present at the well pad. Soil samples were collected at the surface (0-1' bgs) and in two-foot (2') depth increments up to the maximum depth (12' bgs) for soils characterization and assessment. Sample locations were dictated by subsurface line locations. The depth of each sample point was ultimately determined by the point at which auger refusal was encountered. For this reason, soil lithology data *(i.e., boring logs)* were not generated since caliche overburden was not fully penetrated to enter native soils. Horizontal delineation points (i.e., HDP1 through HDP3) were limited in depth due to the strength of the caliche layer present at the subject site's surface.

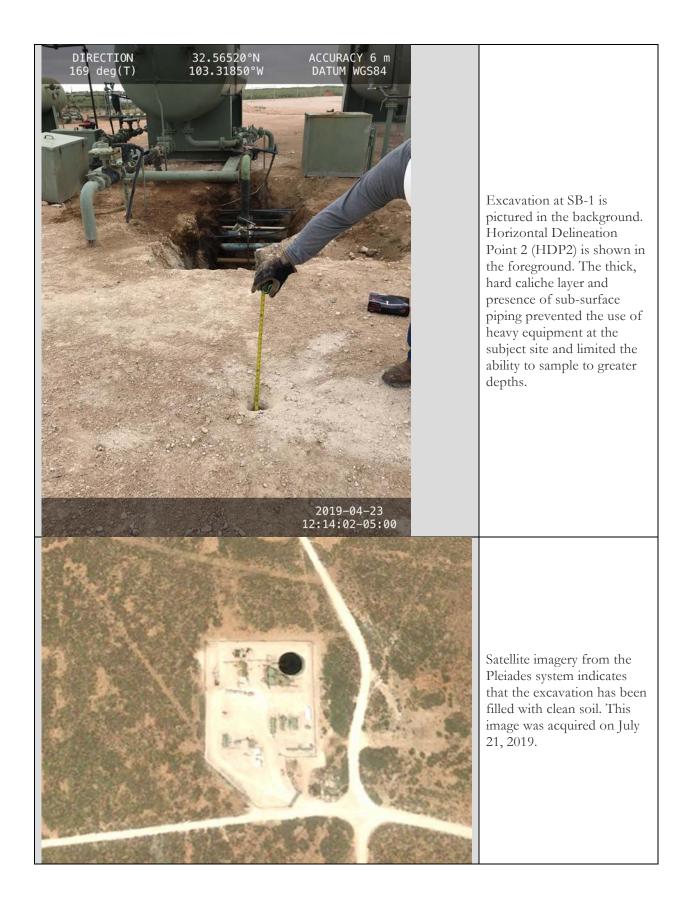
Samples were properly collected and preserved in accordance with proper sampling protocols to ensure representative characterization of soils submitted to Eurofins TestAmerica, a NELAP certified laboratory, under proper chain-of-custody for analysis. Each constituent was analyzed using appropriate analytical methods. Chlorides were analyzed using EPA Method 300, Total Petroleum Hydrocarbons (TPH) using Method 8015B, and BTEX constituents on the using Method 8260.

#### Geo-tagged Site Photographs

Final photographs demonstrating facility congestion and proper excavation are provided on the following page. All geotagged photographs contain the geographic coordinates, date, time, and other data associated with their capture.

| Photograph  | Description   |
|---|---|
|   | The client provided a<br>photograph of the affected<br>area. The workers who were<br>present at the time of the<br>release constructed an<br>effective berm to contain<br>the fluids and minimize<br>impacts to the site. This<br>photograph is believed to<br>have been captured on or<br>around April 4, 2019.  |
| DIRECTION<br>190 deg(T)<br>103.31849°W<br>ACCURACY 6 m<br>DATUM WGS84 | Delineation sampling with a<br>hand-auger within active<br>facility. Majority of lines are<br>subsurface so care was given<br>to sample collection. Hand-<br>augering was the only means<br>of sampling allowed within<br>the facility due to safety<br>concerns and the desire not<br>to risk further impacts to the<br>subject site.<br>Soil Boring 1 (SB1) is<br>photographed in this image<br>showing the area that had<br>previously been bermed as<br>immediate response to the<br>release. |

Photographic Log: April 23, 2019



#### Successful Remediation Performed on Area Outside of Active Facility

A review of the analytical results associated with characterization efforts was performed. The results indicate that a small volume of soil at Horizontal Delineation Point 2 (HDP2) exceeded the 100 parts-per-million (ppm) Total Petroleum Hydrocarbon (TPH) limit applicable to the subject site. This sample was collected at six-inches below ground surface at an active well pad and may reasonably be expected to be unrelated to the release. The caliche well pad would be addressed as part of the client's typical site abandonment protocol.

In addition, remedial work at the location of the release (i.e., Soil Boring 1) was largely successful in reducing the concentrations chlorides in the affected area with only a single depth interval at 2'bgs showing chlorides above the 600-ppm limit (SB1 at 2'bgs indicated a chloride concentration of 1,040 ppm with concentrations decreasing with depth). As for TPH, concentrations at SB1 peached at approximately 14,084 ppm at 6'bgs and decreased with depth to only 177 ppm at 12'bgs. The 100-ppm limit on TPH was exceeded at all of the SB1 depth intervals except the topmost interval. Soil samples were collected at SB-1's excavation floor (12' bgs) as part of efforts to ensure that the concentration of TPH was below the 100-ppm limit. However, that limit was exceeded at HDP2 and SB1 as shown in the summary table in **Attachment D**. The full analytical results, inclusive of the chain-of-custody, are provided in **Attachment E**. Safety concerns associated with the presence of subsurface lines, some of which Sport Environmental has been advised may be operated by third-parties), has made further delineation of TPH infeasible at this time.

BTEX and Benzene concentrations were well below their respective regulatory limits at all sample points.

All of the excavated material associated with this release was sent to Sundance Services, a NMOCD approved facility in Eunice, New Mexico, for proper disposal. The manifests documenting this disposal are available in **Attachment F**.

Based on a review of the release history, impacts to areas outside of the active well pad did not occur. As for the area within the well pad that has not yet met the Closure Criteria associated with a release where groundwater is less than fifty feet, the concentrations of TPH and Chloride require further work to be performed at the time of site closure. Benzene, Toluene, Ethylbenzene, and Xylenes were below their respective limits as confirmed by the analytical data associated with the soil sampling. The volume of affected soil associated with the deferred remediation request is estimated to be 54 cubic yards within the active facility as estimated by multiplying the footprint of the impacted area by an average of 15 feet in depth. Vertical delineation of TPH was nearly complete (177 ppm vs 100 ppm) at the 12'bgs depth interval at SB1. Sport Environmental respectfully requests an exception to the 100-ppm delineation limit associated with remediation deferral of this release and that the client be allowed to fully address the impacted area at the time of site closure.

If NMOCD should wish to discuss this request for closure further, please contact us at (432) 683-1100.

Sincerely,

THEN HUNS, MONCH

Deborah S. Moore, ME, REPA, CESCO, RSO President/Environmental Engineer Sport Environmental Services, LLC

cc: Mr. Shelby Pennington (XTO)

List of Attachments:

- A C-141
- B 0.5-Mile Radius Map denoting Absence of Major Watercourses
- C Release Site Plan denoting Sample Locations
- D Analytical Results Table
- E Laboratory Analytical Reports
- F Waste Manifests

## Attachment A

C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

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

)

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

## **Release Notification**

#### **Responsible Party**

| Responsible Party XTO Energy                              | OGRID 5380                     |
|---|--------------------------------|
| Contact Name Kyle Littrell                                | Contact Telephone 432-221-7331 |
| Contact email Kyle_Littrell@xtoenergy.com                 | Incident # (assigned by OCD)   |
| Contact mailing address 522 W. Mermod, Carlsbad, NM 88220 |                                |

#### **Location of Release Source**

(NAD 83 in decimal degrees to 5 decimal places)

Longitude

-103.31849

Latitude 32.56058

| Site Name EMSU B Tank Battery    | Site Type Bulk Storage and Separation Facility |
|----------------------------------|--|
| Date Release Discovered 4/4/2019 | API# (if applicable) $N/A$                     |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| А           | 23      | 208      | 36E   | Lea    |

#### Nature and Volume of Release

| X Crude Oil      | Volume Released (bbls) 7.89  | Volume Recovered (bbls) 7.75            |
|------------------|--|---|
| Produced Water   | Volume Released (bbls)   | Volume Recovered (bbls)                 |
|                  | Is the concentration of total dissolved solids (TDS) 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

A 4 inch flange separated from a nipple on trunkline coming from freewater knockout and tester to the heater treater. A contract crew was onsite performing work when fluids were released to the well pad. The crew built a berm to contain the release. A vacuum truck recovered all free fluids. Additional third party resources have been retained to assist with remediation.

Form C-141

N/A

Page 2

#### State of New Mexico Oil Conservation Division

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

| Was this a major       If YES, for what reason(s) does the responsible party consider this a major release?         release as defined by       If YES, for what reason(s) does the responsible party consider this a major release?         19.15.29.7(A) NMAC?       N/A |   |  |  |
|--|---|--|--|
| 🗌 Yes 🛛 No   |   |  |  |
|  |   |  |  |
|  |   |  |  |
| If YES, was immediate n  | notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?                  |  |  |
| If YES, was immediate n<br>N/A   | notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?                  |  |  |
| Contraction and Automatics and Automatics and Automatics and   |   |  |  |
| Contraction and Automatics and Automatics and Automatics and   | notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Initial Response |  |  |

X 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: Amy C. Ruth     | Title:          |
|-------------------------------|-----------------|
| Signature. Nue Luco           | Date: 4/16/2019 |
| email: Amy Ruth@xtdenergy.com | Telephone:      |
|                               |                 |
| OCD Only                      |                 |
| Received by:                  | Date:           |
|                               | energenoor      |

| Location:   | EMSU B Tank Battery |        |                 |  |
|---|---------------------|--------|-----------------|--|
| Spill Date:                                       | 4/4/2019            |        |                 |  |
| OR  |                     |        |                 |  |
| Approximate Area= 32 ft <sup>2</sup>              |                     |        | ft <sup>2</sup> |  |
| Average Saturation (or depth) of Spill= 10.00 inc |                     | inches |                 |  |
|   |                     |        |                 |  |
| Approximate Oil %                                 |                     |        |                 |  |

| Approximate Oil %             | 100  |      |
|-------------------------------|------|------|
| Average Porosity Factor=      | 0.03 |      |
| Approximate Volume Recovered= | 7.75 | bbls |

| VOLUME OF LEAK          |      |         |  |
|-------------------------|------|---------|--|
| Total Oil=              | 7.89 | barrels |  |
| Total Produced Water=   | 0    | barrels |  |
| VOLUME RECOVERED        |      |         |  |
| Total Oil= 7.75 barrels |      |         |  |
| Total Produced Water=   | 0    | barrels |  |

From:Rose-Coss, Dylan H, EMNRDTo:Ruth, AmySubject:RE: Initial C-141 - EMSU B Battery release 4-4-19Date:Wednesday, May 01, 2019 12:13:04 PMAttachments:image001.png

#### RE: XTO Energy \* EMSU B Battery\* DOR: 04/04/0219

All,

The OCD tracking number for this release event is **<u>1RP-5446</u>**.

Thank you,

#### **Dylan Rose-Coss**

*Environmental Scientist* Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

(505) 476-3488

From: Ruth, Amy <Amy\_Ruth@xtoenergy.com>
Sent: Tuesday, April 16, 2019 11:08 AM
To: EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>; Crystal Weaver
<caweaver@blm.gov>; Deborah McKinney <dmckinne@blm.gov>
Cc: Meadows, Derrick <Derrick\_Meadows@xtoenergy.com>; Goodman, Ronald
<Ronald\_Goodman@xtoenergy.com>; Littrell, Kyle <Kyle\_Littrell@xtoenergy.com>; Foust, Bryan
<Bryan\_Foust@xtoenergy.com>
Subject: [EXT] Initial C-141 - EMSU B Battery release 4-4-19

Good Morning,

Attached is an initial form C-141 with spill calculations detailing a fluid release event associated with the referenced facility. Please contact us with any questions or concerns. Thank you.

Respectfully,

Amy C· Ruth Permian Division Environmental Coordinator 3104 E. Greene Street | Carlsbad, NM 88220 | M: 432.661.0571 | O: 575.689.3380



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Form C-141 Page 3 State of New Mexico Oil Conservation Division

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

## Site Assessment/Characterization

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

| What is the shallowest depth to groundwater beneath the area affected by the release?   | <u>46 (ft bgs)</u> |
|---|--------------------|
| 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 <b>not</b> 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

Data table of soil contaminant concentration data

 $\boxtimes$  Depth to water determination

Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release

Boring or excavation logs *(Release was on well pad – caliche – non-native soil)* 

Photographs including date and GIS information

Topographic/Aerial maps

Laboratory data including chain of custody

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

| Form C-141  | State of New Mexico   |  |  | Incident ID   |   |                                  |
|---|---|--|--|---|---|----------------------------------|
| Page 4  | Oil Conservation Division   |  |  | District RP   |   |                                  |
|   |   |  |  | Facility ID   |   |                                  |
|   |   |  |  | Application ID  |   |                                  |
| regulations all opers<br>public health or the<br>failed to adequately<br>addition, OCD acce<br>and/or regulations.<br>Printed Name:<br>Signature:<br>email:Shelby | t the information given above is true and complete to the ators are required to report and/or file certain release notion environment. The acceptance of a C-141 report by the Conversigate and remediate contamination that pose a three ptance of a C-141 report does not relieve the operator of Shelby Pennington Shelby Pennington pennington@xtoenergy. com | ifications an<br>OCD does n<br>eat to groun.<br>responsibil<br>Title:<br>Date: | nd perform co<br>not relieve the<br>dwater, surfac<br>lity for compli<br>Environm<br>7/ 25/ 19 | rrective actions for rele<br>operator of liability sh<br>water, human health<br>ance with any other fe<br>ental Coordinator | eases which may<br>ould their operati<br>or the environme<br>deral, state, or loo | endanger<br>ions have<br>ent. In |
| OCD Only  |   |  |  |   |   |                                  |
| Received by:  |   | D  | Date:  |   |   |                                  |

Form C-141 Page 5 State of New Mexico Oil Conservation Division

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

Detailed description of proposed remediation technique

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

## **Remediation Plan**

| <ul> <li>Scaled sitemap with GPS coordinates showing delineation points</li> <li>Estimated volume of material to be remediated</li> <li>Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>  |  |  |
|--|--|--|
| <b>Deferral Requests Only:</b> Each of the following items must be confirmed as part of any request for deferral of remediation.   |  |  |
| Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.   |  |  |
| Extents of contamination must be fully delineated. Unable to achieve full vertical delineation at this facility due to safety concerns associated with subsurface lines and vessels in the immediate vicinity of the release location.   |  |  |
| Contamination does not cause an imminent risk to human health, the environment, or groundwater. <i>Although, full vertical delineation was infeasible, soil sampling strongly indicated decreasing concentrations of constituents of concern with depth. BTEX was below regulatory limits at all sample points. Chloride was vertically delineated. And TPH decreased with depth to only 177-ppm at the 12'bgs location associated with the source of the release.</i>   |  |  |
| 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.         Shelby Pennington       Title:         Environmental Coordinator         Signature:       Date:         7/ 25/ 19         email:       shelby_pennington@xtoenergy. com |  |  |
| OCD Only   |  |  |
| Received by:         Date:   |  |  |
| Approved Approved with Attached Conditions of Approval Denied Deferral Approved  |  |  |
| Signature: Date:   |  |  |

State of New Mexico Oil Conservation Division

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

## Closure

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

| Closure Report Attachment Checklist: Each of the following   | items must be included in the closure report.  |
|--|--|
| $\Box$ A scaled site and sampling diagram as described in 19.15.29.  | 11 NMAC  |
| Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)  | s of the liner integrity if applicable (Note: appropriate OCD District office  |
| Laboratory analyses of final sampling (Note: appropriate OD  | C District office must be notified 2 days prior to final sampling)   |
| Description of remediation activities  |  |
|  |  |
| and regulations all operators are required to report and/or file certain<br>may endanger public health or the environment. The acceptance of<br>should their operations have failed to adequately investigate and re-<br>human health or the environment. In addition, OCD acceptance of | ations. The responsible party acknowledges they must substantially<br>onditions that existed prior to the release or their final land use in                                 |
| Printed Name:  | Title:   |
| Signature:   | Date:  |
| email:   | Telephone:   |
|  |  |
| OCD Only   |  |
| Received by:   | Date:  |
|  | of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations. |
| Closure Approved by:   | Date:  |
| Printed Name:  | Title:   |
|  |  |

## Attachment B

0.5-Mile Radius Map Demonstrating Absence of Major Watercourses

## EMSU B Tank Battery (1RP-5453)

A 0.5-mile radius is displayed. No major watercourses are within the radius. Geographic Coordinates: 32.56508, -103.31849 Date of Discovery: April 4, 2019 Legend

- 0.5-mile Radius
- EMSU B Tank Battery (XTO)

2000

EMSU B Tank Battery (XTO)

Background SB1

Google Earth

Attachment C

Release Site Plan Depicting Sample Locations



## Attachment D

Analytical Results Summary Table

#### XTO Energy, Inc. - EMSU B Tank Battery (1RP-5446)

| Analyte  | Benzene | Toluene                             | Ethylbenzene | Xylenes, Total | Gasoline Range Organics [C6 - C10]  | Diesel Range Organics [C10-C28] | MRO (C28-C35) | Chloride |
|--|---------|-------------------------------------|--------------|----------------|---|---------------------------------|---------------|----------|
| Units  | mg/Kg   | mg/Kg                               | mg/Kg        | mg/Kg          | mg/Kg   | mg/Kg                           | mg/Kg         | mg/Kg    |
| Closure Criteria for Soils<br>Impacted by a Release (Depth to<br>Groundwater is Less than 50")       | 10      | Total BTEX must not exceed 50 mg/Kg |              |                | Total Petroleum Hydrocarbons are not to exceed 100 mg/Kg<br>(GRO + DRO + MRO) |                                 |               | 600      |
| 490-172773-1<br>EMSU B Tank Battery New April<br>Release - HDP1 - @ 6" bgs<br>4/23/2019<br>11:05 AM  | ND      | ND                                  | ND           | 0.0047         | ND  | 14.0                            | 9.17          | ND       |
| 490-172773-2<br>EMSU B Tank Battery New April<br>Release - HDP2 - @ 6" bgs<br>4/23/2019<br>11:10 AM  | ND      | ND                                  | ND           | 0.00303        | ND  | 7520                            | 2580          | 29.3     |
| 490-172773-3<br>EMSU B Tank Battery New April<br>Release - HDP3 - @ 3" bgs<br>4/23/2019<br>11:15 AM  | ND      | ND                                  | 0.000777     | 0.00477        | ND  | 50.1                            | 22.8          | 372      |
| 490-172773-4<br>EMSU B Tank Battery New April<br>Release - SB1 - @ 0-1' bgs<br>4/23/2019<br>11:17 AM | 0.00435 | 0.081                               | 0.190        | 0.933          | 69.7  | 3.16                            | 2.52          | 423      |
| 490-172773-5<br>EMSU B Tank Battery New April<br>Release - SB1 - @ 2' bgs<br>4/23/2019<br>11:19 AM   | 0.00247 | 0.0438                              | 0.0499       | 0.295          | 37.5  | 4780                            | 1690          | 1040     |
| 490-172773-6<br>EMSU B Tank Battery New April<br>Release - SB1 - @ 3' bgs<br>4/23/2019<br>11:20 AM   | ND      | 0.0266                              | 0.0754       | 0.286          | 22.7  | 7280                            | 2520          | 140      |
| 490-172773-7<br>EMSU B Tank Battery New April<br>Release - SB1 - @ 4' bgs<br>4/23/2019<br>11:21 AM   | 0.00113 | 0.0127                              | 0.0317       | 0.239          | 145   | 2230                            | 467           | 107      |
| 490-172773-8<br>EMSU B Tank Battery New April<br>Release - SB1 - @ 6' bgs<br>4/23/2019<br>11:28 AM   | ND      | ND                                  | 0.212        | 2.16           | 674   | 10800                           | 2610          | 137      |
| 490-172773-9<br>EMSU B Tank Battery New April<br>Release - SB1 - @ 8' bgs<br>4/23/2019<br>11:35 AM   | 0.00400 | 0.0106                              | 0.291        | 0.971          | 49.7  | 989                             | 229           | 143      |
| 490-172773-10<br>EMSU B Tank Battery New April<br>Release - SB1 - @ 10' bgs<br>4/23/2019<br>11:53 AM | ND      | ND                                  | 0.644        | 1.33           | 260   | 766                             | 221           | 14.1     |
| 490-172773-11<br>EMSU B Tank Battery New April<br>Release - SB1 - @ 12' bgs<br>4/23/2019<br>12:00 PM | ND      | ND                                  | 0.0168       | 0.0624         | 35.2  | 112                             | 30.1          | 20.9     |

Note: Groundwater was estimated to be present at approximately 46 feet below ground surface at the subject site.

## Attachment E

Laboratory Analytical Reports

# 🛟 eurofins

# Environment Testing TestAmerica

## **ANALYTICAL REPORT**

#### Eurofins TestAmerica, Nashville 2960 Foster Creighton Drive Nashville, TN 37204 Tel: (615)726-0177

#### Laboratory Job ID: 490-172773-1

Client Project/Site: EMSU B Tank Battery (New April Release)

#### For:

Sport Environmental Services LLC 502 N Big Spring St Midland, Texas 79701

Attn: Debi Sport Moore

Authorized for release by: 5/6/2019 1:38:04 PM Shali Brown, Project Manager II (615)301-5031 shali.brown@testamericainc.com

Designee for

Jennifer Gambill, Project Manager I (615)301-5044 jennifer.gambill@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.



# **Table of Contents**

| Cover Page            | 1  |
|-----------------------|----|
| Table of Contents     | 2  |
| Sample Summary        | 3  |
| Case Narrative        | 4  |
| Definitions           | 6  |
| Client Sample Results | 7  |
| QC Sample Results     | 18 |
| QC Association        | 27 |
| Chronicle             | 32 |
| Method Summary        | 36 |
| Certification Summary | 37 |
| Chain of Custody      | 38 |
|                       |    |

## **Sample Summary**

Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

Job ID: 490-172773-1

| Lab Sample ID | Client Sample ID   | Matrix | Collected      | Received       |   |
|---------------|--|--------|----------------|----------------|---|
| 490-172773-1  | EMSU B Tank Battery New April Release - HDP1 - @ 6" bgs  | Solid  | 04/23/19 11:05 | 04/26/19 09:25 |   |
| 490-172773-2  | EMSU B Tank Battery New April Release - HDP2 - @ 6" bgs  | Solid  | 04/23/19 11:10 | 04/26/19 09:25 |   |
| 490-172773-3  | EMSU B Tank Battery New April Release - HDP3 - @ 3" bgs  | Solid  | 04/23/19 11:15 | 04/26/19 09:25 |   |
| 490-172773-4  | EMSU B Tank Battery New April Release - SB1 - @ 0-1' bgs | Solid  | 04/23/19 11:17 | 04/26/19 09:25 |   |
| 490-172773-5  | EMSU B Tank Battery New April Release - SB1 - @ 2' bgs   | Solid  | 04/23/19 11:19 | 04/26/19 09:25 |   |
| 490-172773-6  | EMSU B Tank Battery New April Release - SB1 - @ 3' bgs   | Solid  | 04/23/19 11:20 | 04/26/19 09:25 |   |
| 490-172773-7  | EMSU B Tank Battery New April Release - SB1 - @ 4' bgs   | Solid  | 04/23/19 11:21 | 04/26/19 09:25 |   |
| 490-172773-8  | EMSU B Tank Battery New April Release - SB1 - @ 6' bgs   | Solid  | 04/23/19 11:28 | 04/26/19 09:25 |   |
| 490-172773-9  | EMSU B Tank Battery New April Release - SB1 - @ 8' bgs   | Solid  | 04/23/19 11:35 | 04/26/19 09:25 |   |
| 490-172773-10 | EMSU B Tank Battery New April Release - SB1 - @ 10' bgs  | Solid  | 04/23/19 11:53 | 04/26/19 09:25 | 8 |
| 490-172773-11 | EMSU B Tank Battery New April Release - SB1 - @ 12' bgs  | Solid  | 04/23/19 12:00 | 04/26/19 09:25 | 9 |
|               |  |        |                |                |   |
|               |  |        |                |                |   |
|               |  |        |                |                |   |

#### Job ID: 490-172773-1

#### Laboratory: Eurofins TestAmerica, Nashville

Narrative

Job Narrative 490-172773-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/26/2019 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

#### GC/MS VOA

Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following sample: EMSU B Tank Battery New April Release - SB1 - @ 0-1' bgs (490-172773-4). The sample shows evidence of matrix interference.

Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following sample: EMSU B Tank Battery New April Release - SB1 - @ 3' bgs (490-172773-6). The sample shows evidence of matrix interference. No requested analytes are associated with the low internal standard. Data is not impacted.

Method(s) 8260B: Surrogate recovery was outside control limits for the following sample: EMSU B Tank Battery New April Release - SB1 - @ 12' bgs (490-172773-11). 4-Bromofluorobenzene surrogate is not associated with reported analytes. Data has been reported.

Method(s) 8260B: Surrogate recovery for the following samples were outside control limits: EMSU B Tank Battery New April Release - SB1 - @ 0-1' bgs (490-172773-4), EMSU B Tank Battery New April Release - SB1 - @ 3' bgs (490-172773-6) and EMSU B Tank Battery New April Release - SB1 - @ 8' bgs (490-172773-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: The following samples were diluted due to the nature of the sample matrix: EMSU B Tank Battery New April Release - SB1 - @ 0-1' bgs (490-172773-4), EMSU B Tank Battery New April Release - SB1 - @ 4' bgs (490-172773-7), EMSU B Tank Battery New April Release - SB1 - @ 6' bgs (490-172773-8) and EMSU B Tank Battery New April Release - SB1 - @ 10' bgs (490-172773-10). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: Surrogate recovery was outside control limits for the following sample: EMSU B Tank Battery New April Release - SB1 - @ 6' bgs (490-172773-8). 4-Bromofluorobenzene surrogate is not associated with reported analytes. Data has been reported.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 490-592404.

Method(s) 8260B: Surrogate recovery for the following samples were outside control limits: EMSU B Tank Battery New April Release - SB1 - @ 4' bgs (490-172773-7) and EMSU B Tank Battery New April Release - SB1 - @ 10' bgs (490-172773-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Surrogate recovery for the following samples were outside control limits: EMSU B Tank Battery New April Release - SB1 - @ 2' bgs (490-172773-5) and EMSU B Tank Battery New April Release - SB1 - @ 6' bgs (490-172773-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following samples: EMSU B Tank Battery New April Release - SB1 - @ 2' bgs (490-172773-5) and EMSU B Tank Battery New April Release - SB1 - @ 6' bgs (490-172773-8). The sample(s) shows evidence of matrix interference.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 490-592400.

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

#### HPLC/IC

#### Job ID: 490-172773-1 (Continued)

#### Laboratory: Eurofins TestAmerica, Nashville (Continued)

Method(s) 300.0: The following samples were diluted due to the nature of the sample matrix: EMSU B Tank Battery New April Release - SB1 - @ 0-1' bgs (490-172773-4) and EMSU B Tank Battery New April Release - SB1 - @ 2' bgs (490-172773-5). Elevated reporting limits (RLs) are provided.

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

#### GC VOA

Method(s) 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 490-591459 and analytical batch 490-591477.

Method(s) 8015B: The method blank for preparation batch 490-591565 and analytical batch 490-591826 contained C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

#### GC Semi VOA

Method(s) 8015B: The matrix spike duplicate (MSD) recoveries for 490-592232 were outside control limits. Sample non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8015B: The following samples were diluted to bring the concentration of target analytes within the calibration range: (490-172890-A-3-A), (490-172890-A-3-B MS) and (490-172890-A-3-C MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8015B: The following samples were diluted due to the nature of the sample matrix : EMSU B Tank Battery New April Release -HDP2 - @ 6" bgs (490-172773-2), EMSU B Tank Battery New April Release - SB1 - @ 2' bgs (490-172773-5), EMSU B Tank Battery New April Release - SB1 - @ 3' bgs (490-172773-6), EMSU B Tank Battery New April Release - SB1 - @ 4' bgs (490-172773-7) and EMSU B Tank Battery New April Release - SB1 - @ 6' bgs (490-172773-8). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8015B: The following samples were diluted due to the nature of the sample matrix: EMSU B Tank Battery New April Release - SB1 - @ 8' bgs (490-172773-9) and EMSU B Tank Battery New April Release - SB1 - @ 10' bgs (490-172773-10). Elevated reporting limits (RLs) are provided.

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

#### Organic Prep

Method(s) 3550C: The following samples were diluted due to the nature of the sample matrix: EMSU B Tank Battery New April Release - HDP1 - @ 6" bgs (490-172773-1) and EMSU B Tank Battery New April Release - HDP2 - @ 6" bgs (490-172773-2).

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

## **Definitions/Glossary**

Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

Minimum Level (Dioxin)

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

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

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

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

Reporting Limit or Requested Limit (Radiochemistry)

Not Calculated

Quality Control

Job ID: 490-172773-1

## Qualifiers

ML

NC

ND PQL

QC

RER

RL RPD

TEF

TEQ

| GC/MS VOA    |  |       |
|--------------|--|-------|
| Qualifier    | Qualifier Description  |       |
| *            | ISTD response or retention time outside acceptable limits  | <br>_ |
| J            | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. | 5     |
| х            | Surrogate is outside control limits  |       |
| GC VOA       |  |       |
| Qualifier    | Qualifier Description  |       |
| В            | Compound was found in the blank and sample.  |       |
| J            | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |       |
| GC Semi VO   | Α  | 8     |
| Qualifier    | Qualifier Description  |       |
| F1           | MS and/or MSD Recovery is outside acceptance limits.   | <br>9 |
| J            | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |       |
| Х            | Surrogate is outside control limits  |       |
| Glossary     |  |       |
| Abbreviation | These commonly used abbreviations may or may not be present in this report.                                    |       |

| 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  |
| 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)   |
| MDA            | Minimum Detectable Activity (Radiochemistry)  |
| MDC            | Minimum Detectable Concentration (Radiochemistry)   |
| MDL            | Method Detection Limit  |
|                |   |

| Method: 8260B - Volatile Orga   |                  | •                      |                   |          |               | _ |                            |                            |         |
|---|------------------|------------------------|-------------------|----------|---------------|---|----------------------------|----------------------------|---------|
| Analyte   |                  | Qualifier              | RL                |          | Unit          | D | Prepared                   | Analyzed                   | Dil Fac |
| Benzene   | ND               |                        | 0.00189           | 0.000632 |               |   | 04/30/19 09:44             |                            | 1       |
| Ethylbenzene  | ND               |                        | 0.00189           | 0.000632 | •••           |   |                            | 05/02/19 19:06             | 1       |
| Toluene   | ND               |                        | 0.00189           | 0.000698 | 00            |   |                            | 05/02/19 19:06             | 1       |
| Xylenes, Total  | 0.00470          | J                      | 0.00566           | 0.00116  | mg/Kg         |   | 04/30/19 09:44             | 05/02/19 19:06             |         |
| Surrogate   | %Recovery        | Qualifier              | Limits            |          |               |   | Prepared                   | Analyzed                   | Dil Fa  |
| 1,2-Dichloroethane-d4 (Surr)  | 127              |                        | 70 - 130          |          |               |   | 04/30/19 09:44             | 05/02/19 19:06             | 1       |
| 4-Bromofluorobenzene (Surr)   | 98               |                        | 70 - 130          |          |               |   | 04/30/19 09:44             | 05/02/19 19:06             | 1       |
| Dibromofluoromethane (Surr)   | 124              |                        | 70 - 130          |          |               |   | 04/30/19 09:44             | 05/02/19 19:06             | 1       |
| Toluene-d8 (Surr)   | 96               |                        | 70 - 130          |          |               |   | 04/30/19 09:44             | 05/02/19 19:06             |         |
| Method: 8015B - Gasoline Ran<br>Analyte<br>Gasoline Range Organics [C6 - C10] | • •              | CS - (GC)<br>Qualifier | <b>RL</b><br>4.73 |          | Unit<br>mg/Kg | D | Prepared<br>04/30/19 09:44 | Analyzed<br>05/01/19 03:00 | Dil Fac |
| Surrogate   | %Recovery        | Qualifier              | Limits            |          | 0 0           |   | Prepared                   | Analyzed                   | Dil Fa  |
| a,a,a-Trifluorotoluene  | 95               |                        | 50 - 150          |          |               |   | 04/30/19 09:44             | -                          | 1       |
| Method: 8015B - Diesel Range  |                  | DRO) (GC<br>Qualifier  | )<br>RL           | мрі      | Unit          |   | Drevered                   | Analyzad                   | Dil Fac |
| Analyte   |                  | Quaimer                | 8.22              |          |               | D | Prepared<br>05/02/19 19:07 | Analyzed<br>05/05/19 11:30 |         |
| Diesel Range Organics [C10-C28]   | 14.0             |                        |                   |          | mg/Kg         |   |                            |                            |         |
| MRO (C28-C35)   | 9.17             |                        | 8.22              | 4.11     | mg/Kg         |   | 05/02/19 19:07             | 05/05/19 11:30             | 1       |
|   |                  | o ""                   | Limits            |          |               |   | Prepared                   | Analyzed                   | Dil Fa  |
| Surrogate   | %Recovery        | Qualifier              | Linnts            |          |               |   |                            |                            |         |
| 0   | %Recovery<br>90  | Qualifier              | 50 - 150          |          |               |   | 05/02/19 19:07             | 05/05/19 11:30             |         |
| Surrogate<br>o-Terphenyl (Surr)<br>Method: 300.0 - Anions. Ion Cl             | 90               |                        | 50 - 150          |          |               |   | 05/02/19 19:07             | 05/05/19 11:30             | 1       |
|   | 90<br>hromatogra |                        | 50 - 150          | MDL      | Unit          | D | 05/02/19 19:07<br>Prepared | 05/05/19 11:30             | Dil Fac |

Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

HDP1 - @ 6" bgs

Date Collected: 04/23/19 11:05

Client Sample ID: EMSU B Tank Battery New April Release -

Job ID: 490-172773-1

Matrix: Solid

Lab Sample ID: 490-172773-1

| Method: 8015B - Diesel Range<br>Analyte |           | DRO) (GC<br>Qualifier | )<br>RL           | MDL | Unit          | D | Prepared       | Analyzed                   | Dil Fac |
|---|-----------|-----------------------|-------------------|-----|---------------|---|----------------|----------------------------|---------|
| Diesel Range Organics [C10-C28]         | 7520      |                       | 403               | 202 | mg/Kg         |   | 05/02/19 19:07 | 05/05/19 11:48             | 50      |
| MRO (C28-C35)                           | 2580      |                       | 403               | 202 | mg/Kg         |   | 05/02/19 19:07 | 05/05/19 11:48             | 50      |
| Surrogate                               | %Recovery | Qualifier             | Limits            |     |               |   | Prepared       | Analyzed                   | Dil Fac |
| o-Terphenyl (Surr)                      | 0         | X                     | 50 - 150          |     |               |   | 05/02/19 19:07 | 05/05/19 11:48             | 50      |
| Analyte<br>Chloride                     | Result    | Qualifier             | <b>RL</b><br>9.99 |     | Unit<br>mg/Kg | D | Prepared       | Analyzed<br>04/30/19 20:28 | Dil Fac |
|   |           |                       |                   |     |               |   |                |                            |         |
|   |           |                       |                   |     |               |   |                |                            |         |
|   |           |                       |                   |     |               |   |                |                            |         |
|   |           |                       |                   |     |               |   |                |                            |         |
|   |           |                       |                   |     |               |   |                |                            |         |

| Analyte                            | Result      | Qualifier | RL       | MDL      | Unit  | D | Prepared       | Analyzed       |
|------------------------------------|-------------|-----------|----------|----------|-------|---|----------------|----------------|
| Benzene                            | ND          |           | 0.00189  | 0.000632 | mg/Kg |   | 04/30/19 09:44 | 05/02/19 19:34 |
| Ethylbenzene                       | ND          |           | 0.00189  | 0.000632 | mg/Kg |   | 04/30/19 09:44 | 05/02/19 19:34 |
| Toluene                            | ND          |           | 0.00189  | 0.000698 | mg/Kg |   | 04/30/19 09:44 | 05/02/19 19:34 |
| Xylenes, Total                     | 0.00303     | J         | 0.00566  | 0.00116  | mg/Kg |   | 04/30/19 09:44 | 05/02/19 19:34 |
| Surrogate                          | %Recovery   | Qualifier | Limits   |          |       |   | Prepared       | Analyzed       |
| 1,2-Dichloroethane-d4 (Surr)       | 122         |           | 70 - 130 |          |       |   | 04/30/19 09:44 | 05/02/19 19:34 |
| 4-Bromofluorobenzene (Surr)        | 96          |           | 70 - 130 |          |       |   | 04/30/19 09:44 | 05/02/19 19:34 |
| Dibromofluoromethane (Surr)        | 126         |           | 70 - 130 |          |       |   | 04/30/19 09:44 | 05/02/19 19:34 |
| Toluene-d8 (Surr)                  | 95          |           | 70 - 130 |          |       |   | 04/30/19 09:44 | 05/02/19 19:34 |
| Method: 8015B - Gasoline Ra        | nge Organio | :s - (GC) |          |          |       |   |                |                |
| Analyte                            | Result      | Qualifier | RL       | MDL      | Unit  | D | Prepared       | Analyzed       |
| Gasoline Range Organics [C6 - C10] | ND          |           | 4.66     | 2.33     | mg/Kg |   | 04/30/19 09:44 | 05/01/19 03:34 |

Limits

50 - 150

%Recovery Qualifier

94

**Client Sample Results** 

Client Sample ID: EMSU B Tank Battery New April Release -HDP2 - @ 6" bgs Date Collected: 04/23/19 11:10 Date Received: 04/26/19 09:25

Surrogate

a,a,a-Trifluorotoluene

#### 5/6/2019

Job ID: 490-172773-1

Matrix: Solid

Dil Fac

1

1

1

1

1

1

1

1

1

1

Dil Fac

Dil Fac

## Lab Sample ID: 490-172773-2

Analyzed

04/30/19 09:44 05/01/19 03:34

Prepared

# 6

Dil Fac

| Analyte                            |             | Qualifier   | <sup>′</sup> RL | MDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-------------|-------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Benzene                            | ND          |             | 0.00199         | 0.000666 | mg/Kg |   | 04/30/19 09:44 | 05/02/19 20:03 | 1       |
| Ethylbenzene                       | 0.000777    | J           | 0.00199         | 0.000666 | mg/Kg |   | 04/30/19 09:44 | 05/02/19 20:03 | 1       |
| Toluene                            | ND          |             | 0.00199         | 0.000736 | mg/Kg |   | 04/30/19 09:44 | 05/02/19 20:03 | 1       |
| Xylenes, Total                     | 0.00477     | J           | 0.00596         | 0.00122  | mg/Kg |   | 04/30/19 09:44 | 05/02/19 20:03 | 1       |
| Surrogate                          | %Recovery   | Qualifier   | Limits          |          |       |   | Prepared       | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr)       | 128         |             | 70 - 130        |          |       |   | 04/30/19 09:44 | 05/02/19 20:03 | 1       |
| 4-Bromofluorobenzene (Surr)        | 95          |             | 70 - 130        |          |       |   | 04/30/19 09:44 | 05/02/19 20:03 | 1       |
| Dibromofluoromethane (Surr)        | 124         |             | 70 - 130        |          |       |   | 04/30/19 09:44 | 05/02/19 20:03 | 1       |
| Toluene-d8 (Surr)                  | 95          |             | 70 - 130        |          |       |   | 04/30/19 09:44 | 05/02/19 20:03 | 1       |
| Method: 8015B - Gasoline Rar       | nge Organio | cs - (GC)   |                 |          |       |   |                |                |         |
| Analyte                            |             | Qualifier   | RL              | MDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics [C6 - C10] | ND          |             | 4.84            | 2.42     | mg/Kg |   | 04/30/19 09:44 | 05/01/19 04:08 | 1       |
| Surrogate                          | %Recovery   | Qualifier   | Limits          |          |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene             | 90          |             | 50 - 150        |          |       |   | 04/30/19 09:44 | 05/01/19 04:08 | 1       |
| Method: 8015B - Diesel Range       | Organics (  | DRO) (GC)   |                 |          |       |   |                |                |         |
| Analyte                            |             | Qualifier   | RL              | MDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Diesel Range Organics [C10-C28]    | 50.1        |             | 4.96            | 2.48     | mg/Kg |   | 05/02/19 19:07 | 05/05/19 12:05 | 1       |
| MRO (C28-C35)                      | 22.8        |             | 4.96            | 2.48     | mg/Kg |   | 05/02/19 19:07 | 05/05/19 12:05 | 1       |
| Surrogate                          | %Recovery   | Qualifier   | Limits          |          |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl (Surr)                 | 66          |             | 50 - 150        |          |       |   | 05/02/19 19:07 | 05/05/19 12:05 | 1       |
| Method: 300.0 - Anions, Ion C      | hromatogra  | phy - Solub | ole             |          |       |   |                |                |         |
| Analyte                            |             | Qualifier   | RL              | MDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Chloride                           | 372         |             | 9.98            | 6.99     | mg/Kg |   |                | 04/30/19 20:40 | 1       |

Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

Method: 8260B - Volatile Organic Compounds (GC/MS)

HDP3 - @ 3" bgs

Date Collected: 04/23/19 11:15

Date Received: 04/26/19 09:25

Client Sample ID: EMSU B Tank Battery New April Release -

5/6/2019

Job ID: 490-172773-1

Matrix: Solid

## Lab Sample ID: 490-172773-3

# 6



| Method: 8260B - Volatile Orga<br>Analyte  |  | unds (GC/N<br>Qualifier                       | <mark>IS)</mark><br>RL                               | MDL                 | Unit           | D | Prepared   | Analyzed   | Dil Fa           |
|---|--|---|--|---------------------|----------------|---|--|--|------------------|
| Benzene   | 0.00435  |   | 0.00193  | 0.000645            | mg/Kg          |   | 04/30/19 09:44   | 05/02/19 21:29   |                  |
| Ethylbenzene  | 0.190  |   | 0.0859   | 0.0292              | mg/Kg          |   | 04/30/19 09:44   | 05/02/19 16:15   |                  |
| Toluene   | 0.0810   | J   | 0.0859   | 0.0318              | mg/Kg          |   | 04/30/19 09:44   | 05/02/19 16:15   |                  |
| Xylenes, Total  | 0.933  |   | 0.258  | 0.0533              | mg/Kg          |   | 04/30/19 09:44   | 05/02/19 16:15   |                  |
| Surrogate   | %Recovery  | Qualifier                                     | Limits   |                     |                |   | Prepared   | Analyzed   | Dil Fa           |
| 1,2-Dichloroethane-d4 (Surr)  | 105  |   | 70 - 130   |                     |                |   | 04/30/19 09:44   | 05/02/19 16:15   |                  |
| 1,2-Dichloroethane-d4 (Surr)  | 156  | X   | 70 - 130   |                     |                |   | 04/30/19 09:44   | 05/02/19 21:29   |                  |
| 4-Bromofluorobenzene (Surr)   | 99   |   | 70 - 130   |                     |                |   | 04/30/19 09:44   | 05/02/19 16:15   |                  |
| 4-Bromofluorobenzene (Surr)   | 912  | Χ*  | 70 - 130   |                     |                |   | 04/30/19 09:44   | 05/02/19 21:29   |                  |
| Dibromofluoromethane (Surr)   | 101  |   | 70 - 130   |                     |                |   | 04/30/19 09:44   | 05/02/19 16:15   |                  |
| Dibromofluoromethane (Surr)   | 135  | X   | 70 - 130   |                     |                |   | 04/30/19 09:44   | 05/02/19 21:29   |                  |
| Toluene-d8 (Surr)   | 106  |   | 70 - 130   |                     |                |   | 04/30/19 09:44   | 05/02/19 16:15   |                  |
| Toluene-d8 (Surr)   | 118  | *   | 70 - 130   |                     |                |   | 04/30/19 09:44   | 05/02/19 21:29   |                  |
| Methods 2015B Coopline Dev  |  |   |  |                     |                |   |  |  |                  |
| Method: 8015B - Gasoline Rar<br>Analyte   | -  | Qualifier                                     | RL   | MDL                 | Unit           | D | Prepared   | Analyzed   | Dil Fa           |
| Gasoline Range Organics [C6 -<br>C10]   | 69.7   |   | 4.35   | 2.17                | mg/Kg          |   | 04/30/19 09:44   | 05/01/19 05:49   |                  |
|   |  |   |  |                     |                |   |  |  |                  |
| -   | %Recovery  | Qualifier                                     | Limits   |                     |                |   | Prepared   | Analyzed   | Dil Fa           |
| Surrogate<br>a,a,a-Trifluorotoluene   | %Recovery<br>91  | Qualifier                                     | Limits<br>50 - 150                                   |                     |                |   | <b>Prepared</b><br>04/30/19 09:44  | -  | Dil Fa           |
| Surrogate<br>a,a,a-Trifluorotoluene   | 91   |   |  |                     |                |   | · ·  | •  |                  |
| Surrogate<br>a,a,a-Trifluorotoluene<br>Method: 8015B - Diesel Range   | 91<br>91<br>91<br>91   |   |  | MDL                 | Unit           | D | · ·  | •  |                  |
| Surrogate<br>a,a,a-Trifluorotoluene<br>Method: 8015B - Diesel Range<br>Analyte  | 91<br>91<br>91<br>91   | DRO) (GC)<br>Qualifier                        | 50 - 150   |                     | Unit<br>mg/Kg  | D | 04/30/19 09:44   | 05/01/19 05:49<br>Analyzed   | Dil Fa           |
| Surrogate<br>a,a,a-Trifluorotoluene<br>Method: 8015B - Diesel Range<br>Analyte<br>Diesel Range Organics [C10-C28]   | 91<br>e Organics (<br>Result   | DRO) (GC)<br>Qualifier<br>J                   | 50 - 150<br>RL                                       | 2.48                |                | D | 04/30/19 09:44<br>Prepared<br>05/02/19 19:07                               | 05/01/19 05:49<br>Analyzed   | Dil Fa           |
| Surrogate<br>a,a,a-Trifluorotoluene<br>Method: 8015B - Diesel Range<br>Analyte<br>Diesel Range Organics [C10-C28]   | 91<br>e Organics (<br>Result<br>3.16   | DRO) (GC)<br>Qualifier<br>J<br>J              | 50 - 150<br>RL<br>4.97                               | 2.48                | mg/Kg          | D | 04/30/19 09:44<br>Prepared<br>05/02/19 19:07                               | 05/01/19 05:49<br>Analyzed<br>05/05/19 12:22                               | Dil Fa           |
| Surrogate<br>a,a,a-Trifluorotoluene<br>Method: 8015B - Diesel Range<br>Analyte<br>Diesel Range Organics [C10-C28]<br>MRO (C28-C35)<br>Surrogate                       | 91<br>e Organics (<br>Result<br>3.16<br>2.52                                   | DRO) (GC)<br>Qualifier<br>J<br>J              | 50 - 150<br>RL<br>4.97<br>4.97                       | 2.48                | mg/Kg          | D | 04/30/19 09:44<br>Prepared<br>05/02/19 19:07<br>05/02/19 19:07             | 05/01/19 05:49<br>Analyzed<br>05/05/19 12:22<br>05/05/19 12:22<br>Analyzed | Dil Fa<br>Dil Fa |
| Surrogate<br>a,a,a-Trifluorotoluene<br>Method: 8015B - Diesel Range<br>Analyte<br>Diesel Range Organics [C10-C28]<br>MRO (C28-C35)                                    | 91<br>91<br>91<br>91<br>91<br>91<br>91<br>91<br>91<br>91                       | DRO) (GC)<br>Qualifier<br>J<br>J<br>Qualifier | 50 - 150<br>RL<br>4.97<br>4.97<br>Limits<br>50 - 150 | 2.48                | mg/Kg          | D | 04/30/19 09:44<br>Prepared<br>05/02/19 19:07<br>05/02/19 19:07<br>Prepared | 05/01/19 05:49<br>Analyzed<br>05/05/19 12:22<br>05/05/19 12:22<br>Analyzed |                  |
| Surrogate<br>a,a,a-Trifluorotoluene<br>Method: 8015B - Diesel Range<br>Analyte<br>Diesel Range Organics [C10-C28]<br>MRO (C28-C35)<br>Surrogate<br>o-Terphenyl (Surr) | 91<br>e Organics (<br>Result<br>3.16<br>2.52<br>%Recovery<br>103<br>hromatogra | DRO) (GC)<br>Qualifier<br>J<br>J<br>Qualifier | 50 - 150<br>RL<br>4.97<br>4.97<br>Limits<br>50 - 150 | 2.48<br>2.48<br>MDL | mg/Kg<br>mg/Kg | D | 04/30/19 09:44<br>Prepared<br>05/02/19 19:07<br>05/02/19 19:07<br>Prepared | 05/01/19 05:49<br>Analyzed<br>05/05/19 12:22<br>05/05/19 12:22<br>Analyzed | Dil Fa<br>Dil Fa |

Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

SB1 - @ 0-1' bgs

Client Sample ID: EMSU B Tank Battery New April Release -

5/6/2019

Job ID: 490-172773-1

# Lab Sample ID: 490-172773-4

# 1 2

5

| Client Sample ID: EMSU   | 3 Tank Ba   | ttery Nev  | v April Re | lease -  |       | La | ab Sample      | ID: 490-172    | 2773-   |
|--|-------------|------------|------------|----------|-------|----|----------------|----------------|---------|
| B1 - @ 2' bgs<br>ate Collected: 04/23/19 11:19<br>ate Received: 04/26/19 09:25 |             |            |            |          |       |    |                | Matrix         | c: Soli |
| Method: 8260B - Volatile Orga  | anic Compo  | unds (GC/  | MS)        |          |       |    |                |                |         |
| Analyte  | Result      | Qualifier  | RL         | MDL      | Unit  | D  | Prepared       | Analyzed       | Dil Fa  |
| Benzene  | 0.00247     |            | 0.00167    | 0.000559 | mg/Kg |    | 04/30/19 09:44 | 05/03/19 14:04 |         |
| Ethylbenzene   | 0.0499      |            | 0.00167    | 0.000559 | mg/Kg |    | 04/30/19 09:44 | 05/03/19 14:04 |         |
| Toluene  | 0.0438      |            | 0.00167    | 0.000618 | mg/Kg |    | 04/30/19 09:44 | 05/03/19 14:04 |         |
| Xylenes, Total   | 0.295       |            | 0.00501    | 0.00103  | mg/Kg |    | 04/30/19 09:44 | 05/03/19 14:04 |         |
| Surrogate  | %Recovery   | Qualifier  | Limits     |          |       |    | Prepared       | Analyzed       | Dil Fa  |
| 1,2-Dichloroethane-d4 (Surr)   | 127         |            | 70 - 130   |          |       |    | 04/30/19 09:44 | 05/03/19 14:04 |         |
| 4-Bromofluorobenzene (Surr)  | 213         | X *        | 70 - 130   |          |       |    | 04/30/19 09:44 | 05/03/19 14:04 |         |
| Dibromofluoromethane (Surr)  | 116         |            | 70 - 130   |          |       |    | 04/30/19 09:44 | 05/03/19 14:04 |         |
| Toluene-d8 (Surr)  | 289         | X          | 70 - 130   |          |       |    | 04/30/19 09:44 | 05/03/19 14:04 |         |
| Method: 8015B - Gasoline Ra  | nge Organic | s - (GC)   |            |          |       |    |                |                |         |
| Analyte  |             | Qualifier  | RL         | MDL      | Unit  | D  | Prepared       | Analyzed       | Dil Fa  |
| Gasoline Range Organics [C6 -<br>C10]  | 37.5        |            | 4.86       | 2.43     | mg/Kg |    | 04/30/19 09:44 | 05/01/19 04:41 |         |
| Surrogate  | %Recovery   | Qualifier  | Limits     |          |       |    | Prepared       | Analyzed       | Dil F   |
| a,a,a-Trifluorotoluene   | 92          |            | 50 - 150   |          |       |    | 04/30/19 09:44 | 05/01/19 04:41 |         |
| Method: 8015B - Diesel Rang  | -           |            | •          |          |       |    |                |                |         |
| Analyte  |             | Qualifier  | RL         |          | Unit  | D  | Prepared       | Analyzed       | Dil Fa  |
| Diesel Range Organics [C10-C28]  | 4780        |            | 249        | 125      | mg/Kg |    | 05/02/19 19:07 | 05/05/19 12:40 |         |
| MRO (C28-C35)  | 1690        |            | 249        | 125      | mg/Kg |    | 05/02/19 19:07 | 05/05/19 12:40 |         |
| Surrogate  | %Recovery   |            | Limits     |          |       |    | Prepared       | Analyzed       | Dil F   |
| o-Terphenyl (Surr)   | 0           | X          | 50 - 150   |          |       |    | 05/02/19 19:07 | 05/05/19 12:40 |         |
| Method: 300.0 - Anions, Ion C  | hromatogra  | phy - Solu | ble        |          |       |    |                |                |         |
| Analyte  | Result      | Qualifier  | RL         |          | Unit  | D  | Prepared       | Analyzed       | Dil Fa  |
| Chloride   | 1040        |            | 101        | 70.7     | mg/Kg |    |                | 05/02/19 01:14 |         |

Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

Eurofins TestAmerica, Nashville

5 6

Job ID: 490-172773-1

| Client Sample ID: EMSU I   | B Tank Bat   | ttery Nev  | v April Re | lease -  |       | La | ab Sample      | ID: 490-172    | 2773-0  |
|--|--------------|------------|------------|----------|-------|----|----------------|----------------|---------|
| B1 - @ 3' bgs<br>ate Collected: 04/23/19 11:20<br>ate Received: 04/26/19 09:25 |              |            |            |          |       |    |                | Matrix         | c: Soli |
| Method: 8260B - Volatile Org   | anic Compo   | unds (GC/  | MS)        |          |       |    |                |                |         |
| Analyte  |              | Qualifier  | RL         | MDL      | Unit  | D  | Prepared       | Analyzed       | Dil Fa  |
| Benzene  | ND           |            | 0.00199    | 0.000667 | mg/Kg |    | 04/30/19 09:44 | 05/02/19 21:01 |         |
| Ethylbenzene   | 0.0754       |            | 0.00199    | 0.000667 | mg/Kg |    | 04/30/19 09:44 | 05/02/19 21:01 |         |
| Toluene  | 0.0266       |            | 0.00199    | 0.000737 | mg/Kg |    | 04/30/19 09:44 | 05/02/19 21:01 |         |
| Xylenes, Total   | 0.286        |            | 0.00598    | 0.00123  | mg/Kg |    | 04/30/19 09:44 | 05/02/19 21:01 |         |
| Surrogate  | %Recovery    | Qualifier  | Limits     |          |       |    | Prepared       | Analyzed       | Dil Fa  |
| 1,2-Dichloroethane-d4 (Surr)   | 132          | X          | 70 - 130   |          |       |    | 04/30/19 09:44 | 05/02/19 21:01 |         |
| 4-Bromofluorobenzene (Surr)  | 834          | Χ*         | 70 - 130   |          |       |    | 04/30/19 09:44 | 05/02/19 21:01 |         |
| Dibromofluoromethane (Surr)  | 113          |            | 70 - 130   |          |       |    | 04/30/19 09:44 | 05/02/19 21:01 |         |
| oluene-d8 (Surr)   | 108          |            | 70 - 130   |          |       |    | 04/30/19 09:44 | 05/02/19 21:01 |         |
|  |              | (00)       |            |          |       |    |                |                |         |
| Method: 8015B - Gasoline Ra<br>Analyte   |              | Qualifier  | RL         | MDL      | Unit  | D  | Prepared       | Analyzed       | Dil Fa  |
| Gasoline Range Organics [C6 -<br>C10]  | 22.7         |            | 4.45       | 2.22     | mg/Kg |    | 04/30/19 09:44 | 05/01/19 06:23 |         |
| Surrogate  | %Recovery    | Qualifier  | Limits     |          |       |    | Prepared       | Analyzed       | Dil F   |
| a,a,a-Trifluorotoluene   | 95           |            | 50 - 150   |          |       |    | 04/30/19 09:44 | 05/01/19 06:23 |         |
| Method: 8015B - Diesel Rang  | e Organics ( | DRO) (GC   | )          |          |       |    |                |                |         |
| nalyte   | Result       | Qualifier  | RL         | MDL      | Unit  | D  | Prepared       | Analyzed       | Dil F   |
| Diesel Range Organics [C10-C28]  | 7280         |            | 497        | 248      | mg/Kg |    | 05/02/19 19:07 | 05/05/19 12:57 | 1       |
| MRO (C28-C35)  | 2520         |            | 497        | 248      | mg/Kg |    | 05/02/19 19:07 | 05/05/19 12:57 | 1       |
| Surrogate  | %Recovery    | Qualifier  | Limits     |          |       |    | Prepared       | Analyzed       | Dil F   |
| p-Terphenyl (Surr)   | 0            | X          | 50 - 150   |          |       |    | 05/02/19 19:07 | 05/05/19 12:57 | 1       |
| Method: 300.0 - Anions, Ion C  | hromatogra   | phy - Solu | ble        |          |       |    |                |                |         |
| Analyte  | Result       | Qualifier  | RL         |          | Unit  | D  | Prepared       | Analyzed       | Dil F   |
| Chloride   | 140          |            | 9.97       | 6.98     | mg/Kg |    |                | 04/30/19 21:15 |         |

Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

5/6/2019

Eurofins TestAmerica, Nashville

Job ID: 490-172773-1 5 6

| Client Sample ID: EMSU I   | B Tank Ba    | ttery New             | / April Re | lease -  |       | La       | ab Sample                  | ID: 490-172                | 773-7   |
|--|--------------|-----------------------|------------|----------|-------|----------|----------------------------|----------------------------|---------|
| B1 - @ 4' bgs<br>ate Collected: 04/23/19 11:21<br>ate Received: 04/26/19 09:25 |              |                       |            |          |       |          |                            | Matrix                     | c: Soli |
| Method: 8260B - Volatile Org   | anic Compo   | unds (GC/I            | MS)        |          |       |          |                            |                            |         |
| Analyte  |              | Qualifier             | RL         | MDL      | Unit  | D        | Prepared                   | Analyzed                   | Dil Fa  |
| Benzene  | 0.00113      | J                     | 0.00193    | 0.000648 | mg/Kg |          | 04/30/19 09:44             | 05/03/19 13:59             |         |
| Ethylbenzene   | 0.0317       |                       | 0.00193    | 0.000648 | mg/Kg |          | 04/30/19 09:44             | 05/03/19 13:59             |         |
| Toluene  | 0.0127       |                       | 0.00193    | 0.000716 | mg/Kg |          | 04/30/19 09:44             | 05/03/19 13:59             |         |
| Xylenes, Total   | 0.239        |                       | 0.00580    | 0.00119  | mg/Kg |          | 04/30/19 09:44             | 05/03/19 13:59             |         |
| Surrogate  | %Recovery    | Qualifier             | Limits     |          |       |          | Prepared                   | Analyzed                   | Dil Fa  |
| 1,2-Dichloroethane-d4 (Surr)   | 143          | X                     | 70 - 130   |          |       |          | 04/30/19 09:44             | 05/03/19 13:59             |         |
| 4-Bromofluorobenzene (Surr)  | 665          | X                     | 70 - 130   |          |       |          | 04/30/19 09:44             | 05/03/19 13:59             |         |
| Dibromofluoromethane (Surr)  | 109          |                       | 70 - 130   |          |       |          | 04/30/19 09:44             | 05/03/19 13:59             |         |
| Toluene-d8 (Surr)  | 98           |                       | 70 - 130   |          |       |          | 04/30/19 09:44             | 05/03/19 13:59             |         |
|  |              |                       |            |          |       |          |                            |                            |         |
| Method: 8015B - Gasoline Ra  |              | S - (GC)<br>Qualifier | RL         | MDI      | 11    | <b>_</b> | Drenered                   | Anolymod                   | Dil Fa  |
| Analyte  |              | Quaimer               | 4.95       |          | Unit  | D        | Prepared<br>04/30/19 09:44 | Analyzed<br>05/01/19 06:56 |         |
| Gasoline Range Organics [C6 -<br>C10]  | 145          |                       | 4.95       | 2.40     | mg/Kg |          | 04/30/19 09.44             | 05/01/19 00.50             |         |
| Surrogate  | %Recovery    | Qualifier             | Limits     |          |       |          | Prepared                   | Analyzed                   | Dil Fa  |
| a,a,a-Trifluorotoluene   | 90           |                       | 50 - 150   |          |       |          | 04/30/19 09:44             | 05/01/19 06:56             |         |
| Method: 8015B - Diesel Rang  | e Organics ( | DRO) (GC)             | )          |          |       |          |                            |                            |         |
| Analyte  | Result       | Qualifier             | RL         | MDL      | Unit  | D        | Prepared                   | Analyzed                   | Dil Fa  |
| Diesel Range Organics [C10-C28]  | 2230         |                       | 249        | 124      | mg/Kg |          | 05/02/19 19:07             | 05/05/19 13:15             | Ę       |
| MRO (C28-C35)  | 467          |                       | 249        | 124      | mg/Kg |          | 05/02/19 19:07             | 05/05/19 13:15             | ę       |
| Surrogate  | %Recovery    | -                     | Limits     |          |       |          | Prepared                   | Analyzed                   | Dil Fa  |
| o-Terphenyl (Surr)   | 0            | X                     | 50 - 150   |          |       |          | 05/02/19 19:07             | 05/05/19 13:15             | 5       |
| Method: 300.0 - Anions, Ion C  | Chromatogra  | phy - Solu            | ble        |          |       |          |                            |                            |         |
| Analyte  | Result       | Qualifier             | RL         |          | Unit  | D        | Prepared                   | Analyzed                   | Dil Fa  |
| Chloride   | 107          |                       | 9.88       | 6.92     | mg/Kg |          |                            | 04/30/19 21:26             |         |

Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

5/6/2019

Job ID: 490-172773-1

| %Recovery                 | Quaimer     | LIIIIIS  |      |       |   | Prepareu       | Analyzeu       | ווע |
|---------------------------|-------------|----------|------|-------|---|----------------|----------------|-----|
| 0                         | X           | 50 - 150 |      |       |   | 05/02/19 19:07 | 05/05/19 13:32 |     |
| 0                         | X           | 50 - 150 |      |       |   | 05/02/19 19:07 | 05/05/19 13:50 |     |
| - Anions, Ion Chromatogra | iphy - Solu | ıble     |      |       |   |                |                |     |
|                           | Qualifier   | RL       | MDL  | Unit  | D | Prepared       | Analyzed       | Dil |
| 137                       |             | 9.87     | 6.91 | mg/Kg |   |                | 04/30/19 21:38 |     |
|                           |             |          |      |       |   |                |                |     |
|                           |             |          |      |       |   |                |                |     |
|                           |             |          |      |       |   |                |                |     |
|                           |             |          |      |       |   |                |                |     |
|                           |             |          |      |       |   |                |                |     |
|                           |             |          |      |       |   |                |                |     |
|                           |             |          |      |       |   |                |                |     |
|                           |             |          |      |       |   |                |                |     |
|                           |             |          |      |       |   |                |                |     |
|                           |             |          |      |       |   |                |                |     |

Eurofins TestAmerica, Nashville

## Client Sample Results

Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

# Client Sample ID: EMSU B Tank Battery New April Release -

SB1 - @ 6' bgs

Date Collected: 04/23/19 11:28 Date Received: 04/26/19 09:25

| Analyte   | Result   | Qualifier   | RL   | MDL                               | Unit                            | D        | Prepared  | Analyzed   | Dil Fa                       |
|---|--|---|--|-----------------------------------|---------------------------------|----------|---|--|------------------------------|
| Benzene   | ND   |   | 0.00187  | 0.000627                          | mg/Kg                           |          | 04/30/19 09:44  | 05/03/19 14:34   |                              |
| Ethylbenzene  | 0.212  |   | 0.00187  | 0.000627                          | mg/Kg                           |          | 04/30/19 09:44  | 05/03/19 14:34   |                              |
| Toluene   | ND   |   | 0.00187  | 0.000693                          | mg/Kg                           |          | 04/30/19 09:44  | 05/03/19 14:34   |                              |
| Xylenes, Total  | 2.16   |   | 0.251  | 0.0518                            | mg/Kg                           |          | 04/30/19 09:44  | 05/02/19 18:37   |                              |
| Surrogate   | %Recovery  | Qualifier   | Limits   |                                   |                                 |          | Prepared  | Analyzed   | Dil F                        |
| 1,2-Dichloroethane-d4 (Surr)  | 96   |   | 70 - 130   |                                   |                                 |          | 04/30/19 09:44  | 05/02/19 18:37   |                              |
| 1,2-Dichloroethane-d4 (Surr)  | 183  | X   | 70 - 130   |                                   |                                 |          | 04/30/19 09:44  | 05/03/19 14:34   |                              |
| 4-Bromofluorobenzene (Surr)   | 140  | X   | 70 - 130   |                                   |                                 |          | 04/30/19 09:44  | 05/02/19 18:37   |                              |
| 4-Bromofluorobenzene (Surr)   | 520  | Χ*  | 70 - 130   |                                   |                                 |          | 04/30/19 09:44  | 05/03/19 14:34   |                              |
| Dibromofluoromethane (Surr)   | 94   |   | 70 - 130   |                                   |                                 |          | 04/30/19 09:44  | 05/02/19 18:37   |                              |
| Dibromofluoromethane (Surr)   | 96   |   | 70 - 130   |                                   |                                 |          | 04/30/19 09:44  | 05/03/19 14:34   |                              |
| Toluene-d8 (Surr)   | 128  |   | 70 - 130   |                                   |                                 |          | 04/30/19 09:44  | 05/02/19 18:37   |                              |
| Toluene-d8 (Surr)   | 5544   | х   | 70 - 130   |                                   |                                 |          | 04/30/19 09:44  | 05/03/19 14:34   |                              |
| Analyte<br>Gasoline Range Organics [C6 -  |  | cs - (GC)<br>Qualifier  | <b>RL</b><br>4.37  |                                   | Unit<br>mg/Kg                   | D        | Prepared<br>04/30/19 09:44  | <b>Analyzed</b><br>05/01/19 07:30  | Dil F                        |
| Analyte<br>Gasoline Range Organics [C6 -<br>C10]  | Result<br>674  | Qualifier   | 4.37   |                                   |                                 | D        | 04/30/19 09:44  | 05/01/19 07:30   | Dil F                        |
| Analyte<br>Gasoline Range Organics [C6 -<br>C10]<br>Surrogate   | Result<br>674<br>%Recovery   | Qualifier   | 4.37<br>Limits   |                                   |                                 | D        | 04/30/19 09:44<br>Prepared  | 05/01/19 07:30   | Dil F<br>Dil F               |
| Method: 8015B - Gasoline Rar<br>Analyte<br>Gasoline Range Organics [C6 -<br>C10]<br>Surrogate<br>a,a,a-Trifluorotoluene   | Result<br>674  | Qualifier   | 4.37   |                                   |                                 | <u>D</u> | 04/30/19 09:44  | 05/01/19 07:30   |                              |
| Analyte<br>Gasoline Range Organics [C6 -<br>C10]<br>Surrogate<br>a,a,a-Trifluorotoluene<br>Method: 8015B - Diesel Range   | Result<br>674<br>%Recovery<br>89<br>Organics (   | Qualifier<br>Qualifier<br>DRO) (GC)   | 4.37<br>Limits<br>50 - 150   | 2.19                              | mg/Kg                           |          | 04/30/19 09:44  Prepared  04/30/19 09:44  | 05/01/19 07:30<br>Analyzed<br>05/01/19 07:30   | Dil F                        |
| Analyte<br>Gasoline Range Organics [C6 -<br>C10]<br>Surrogate<br>a,a,a-Trifluorotoluene<br>Method: 8015B - Diesel Range<br>Analyte  | Result<br>674<br>%Recovery<br>89<br>Organics (<br>Result   | Qualifier   | 4.37<br>Limits<br>50 - 150<br>RL   | 2.19<br>MDL                       | mg/Kg<br>Unit                   | D        | 04/30/19 09:44<br>Prepared<br>04/30/19 09:44<br>Prepared  | 05/01/19 07:30<br>Analyzed<br>05/01/19 07:30<br>Analyzed   | Dil F                        |
| Analyte<br>Gasoline Range Organics [C6 -<br>C10]<br>Surrogate<br>a,a,a-Trifluorotoluene<br>Method: 8015B - Diesel Range<br>Analyte<br>Diesel Range Organics [C10-C28]   | Result<br>674<br>%Recovery<br>89<br>Organics (<br>Result<br>10800                                | Qualifier<br>Qualifier<br>DRO) (GC)   | 4.37<br><u>Limits</u><br>50 - 150<br><u>RL</u><br>491  | 2.19<br>                          | mg/Kg<br>Unit<br>mg/Kg          |          | 04/30/19 09:44<br><b>Prepared</b><br>04/30/19 09:44<br><b>Prepared</b><br>05/02/19 19:07  | 05/01/19 07:30<br>Analyzed<br>05/01/19 07:30<br>Analyzed<br>05/05/19 13:50   | Dil F<br>Dil F               |
| Analyte<br>Gasoline Range Organics [C6 -<br>C10]<br>Surrogate<br>a,a,a-Trifluorotoluene<br>Method: 8015B - Diesel Range<br>Analyte<br>Diesel Range Organics [C10-C28]   | Result<br>674<br>%Recovery<br>89<br>Organics (<br>Result   | Qualifier<br>Qualifier<br>DRO) (GC)   | 4.37<br>Limits<br>50 - 150<br>RL   | 2.19<br>                          | mg/Kg<br>Unit                   |          | 04/30/19 09:44<br><b>Prepared</b><br>04/30/19 09:44<br><b>Prepared</b><br>05/02/19 19:07  | 05/01/19 07:30<br>Analyzed<br>05/01/19 07:30<br>Analyzed   | Dil F<br>Dil F               |
| Analyte<br>Gasoline Range Organics [C6 -<br>C10]<br>Surrogate<br>a,a,a-Trifluorotoluene<br>Method: 8015B - Diesel Range<br>Analyte<br>Diesel Range Organics [C10-C28]<br>MRO (C28-C35)  | Result<br>674<br>%Recovery<br>89<br>Organics (<br>Result<br>10800<br>2610<br>%Recovery           | Qualifier<br>Qualifier<br>DRO) (GC)<br>Qualifier<br>Qualifier                         | 4.37<br><u>Limits</u><br>50 - 150<br><u>RL</u><br>491  | 2.19<br>                          | mg/Kg<br>Unit<br>mg/Kg          |          | 04/30/19 09:44<br><b>Prepared</b><br>04/30/19 09:44<br><b>Prepared</b><br>05/02/19 19:07<br>05/02/19 19:07<br><b>Prepared</b>                   | 05/01/19 07:30<br>Analyzed<br>05/01/19 07:30<br>Analyzed<br>05/05/19 13:50<br>05/05/19 13:32<br>Analyzed                                     | Dil F<br>Dil F<br>1          |
| Analyte<br>Gasoline Range Organics [C6 -<br>C10]<br>Surrogate<br>a, a, a-Trifluorotoluene<br>Method: 8015B - Diesel Range<br>Analyte<br>Diesel Range Organics [C10-C28]<br>MRO (C28-C35)<br>Surrogate   | Result<br>674<br>%Recovery<br>89<br>Organics (<br>Result<br>10800<br>2610<br>%Recovery           | Qualifier<br>Qualifier<br>DRO) (GC)<br>Qualifier                                      | 4.37<br>Limits<br>50 - 150<br>RL<br>491<br>98.3  | 2.19<br>                          | mg/Kg<br>Unit<br>mg/Kg          |          | 04/30/19 09:44<br><b>Prepared</b><br>04/30/19 09:44<br><b>Prepared</b><br>05/02/19 19:07<br>05/02/19 19:07<br><b>Prepared</b>                   | 05/01/19 07:30<br>Analyzed<br>05/01/19 07:30<br>Analyzed<br>05/05/19 13:50<br>05/05/19 13:32   | Dil F<br>Dil F<br>1          |
| Analyte<br>Gasoline Range Organics [C6 -<br>C10]<br>Surrogate<br>a, a, a-Trifluorotoluene<br>Method: 8015B - Diesel Range<br>Analyte<br>Diesel Range Organics [C10-C28]<br>MRO (C28-C35)<br>Surrogate<br>o-Terphenyl (Surr)   | Result<br>674<br>%Recovery<br>89<br>Organics (<br>Result<br>10800<br>2610<br>%Recovery<br>0      | Qualifier<br>Qualifier<br>DRO) (GC)<br>Qualifier<br>Qualifier                         | 4.37<br>Limits<br>50 - 150<br>RL<br>491<br>98.3<br>Limits  | 2.19<br>                          | mg/Kg<br>Unit<br>mg/Kg          |          | 04/30/19 09:44<br><b>Prepared</b><br>04/30/19 09:44<br><b>Prepared</b><br>05/02/19 19:07<br>05/02/19 19:07<br><b>Prepared</b><br>05/02/19 19:07 | 05/01/19 07:30<br>Analyzed<br>05/01/19 07:30<br>Analyzed<br>05/05/19 13:50<br>05/05/19 13:32<br>Analyzed                                     | Dil F<br>Dil F<br>1<br>Dil I |
| Analyte<br>Gasoline Range Organics [C6 -<br>C10]<br>Surrogate<br>a,a,a-Trifluorotoluene<br>Method: 8015B - Diesel Range<br>Analyte<br>Diesel Range Organics [C10-C28]<br>MRO (C28-C35)<br>Surrogate<br>o-Terphenyl (Surr)<br>o-Terphenyl (Surr)<br>Method: 300.0 - Anions, Ion Cl | Result<br>674<br>%Recovery<br>89<br>Organics (<br>Result<br>10800<br>2610<br>%Recovery<br>0<br>0 | Qualifier<br>Qualifier<br>DRO) (GC)<br>Qualifier<br>Qualifier<br>X<br>X<br>phy - Solu | 4.37<br>Limits<br>50 - 150<br>RL<br>491<br>98.3<br>Limits<br>50 - 150<br>50 - 150<br>50 - 150<br>ble | 2.19<br>MDL<br>246<br>49.1        | mg/Kg<br>Unit<br>mg/Kg<br>mg/Kg | D        | 04/30/19 09:44<br><b>Prepared</b><br>04/30/19 09:44<br><b>Prepared</b><br>05/02/19 19:07<br>05/02/19 19:07<br><b>Prepared</b><br>05/02/19 19:07 | 05/01/19 07:30<br>Analyzed<br>05/01/19 07:30<br>Analyzed<br>05/05/19 13:50<br>05/05/19 13:32<br>Analyzed<br>05/05/19 13:32<br>05/05/19 13:50 | Dil F<br>Dil F<br>1<br>Dil F |
| Analyte<br>Gasoline Range Organics [C6 -<br>C10]<br>Surrogate<br>a,a,a-Trifluorotoluene<br>Method: 8015B - Diesel Range<br>Analyte<br>Diesel Range Organics [C10-C28]<br>MRO (C28-C35)<br>Surrogate<br>o-Terphenyl (Surr)<br>o-Terphenyl (Surr)                                   | Result<br>674<br>%Recovery<br>89<br>Organics (<br>Result<br>10800<br>2610<br>%Recovery<br>0<br>0 | Qualifier<br>Qualifier<br>DRO) (GC)<br>Qualifier<br>Qualifier<br>X<br>X               | 4.37<br>Limits<br>50 - 150<br>RL<br>491<br>98.3<br>Limits<br>50 - 150<br>50 - 150                    | 2.19<br>MDL<br>246<br>49.1<br>MDL | mg/Kg<br>Unit<br>mg/Kg          |          | 04/30/19 09:44<br><b>Prepared</b><br>04/30/19 09:44<br><b>Prepared</b><br>05/02/19 19:07<br>05/02/19 19:07<br><b>Prepared</b><br>05/02/19 19:07 | 05/01/19 07:30<br>Analyzed<br>05/01/19 07:30<br>Analyzed<br>05/05/19 13:50<br>05/05/19 13:32<br>Analyzed<br>05/05/19 13:32                   | Dil F<br>Dil F<br>1<br>Dil I |

Lab Sample ID: 490-172773-8

Matrix: Solid

| Benzene         0.00400         0.00177         0.000592         mg/kg         0.4/30/19 09:44         05/02/19 21:58           Ethylbenzene         0.291         0.00177         0.000552         mg/kg         04/30/19 09:44         05/02/19 21:58           Toluene         0.0106         0.00177         0.000554         mg/kg         04/30/19 09:44         05/02/19 21:58           Surrogate         0.971         0.255         0.0526         mg/kg         04/30/19 09:44         05/02/19 17:12           Surrogate         %Recovery         Qualifier         Limits         Prepared         Analyzed         Dil Fa           1,2-Dichioroethane-d4 (Surr)         142         X         70-130         04/30/19 09:44         05/02/19 17:12         Dil ranotobenzene (Surr)         102         70-130         04/30/19 09:44         05/02/19 17:12         Dil ranotobenzene (Surr)         100         70-130         04/30/19 09:44         05/02/19 17:12         Diloronoflucromethane (Surr)         100   | Method: 8260B - Volatile Orga   | anic Compo | unds (GC/N   | IS)      |          |        |   |                |                |         |
|---|---------------------------------|------------|--------------|----------|----------|--------|---|----------------|----------------|---------|
| Ethylbenzene         0.291         0.00177         0.000592         mg/Kg         04/30/19         09:44         05/02/19         21:58           Toluene         0.0106         0.00177         0.200654         mg/Kg         04/30/19         09:44         05/02/19         21:58           Xylenes, Total         0.971         0.255         0.0526         mg/Kg         04/30/19         09:44         05/02/19         21:58           Surrogate         %Recovery         Qualifier         Limits         Prepared         Analyzed         Dil Fai           12-Dichioroethane-d4 (Surr)         142         X         70-130         04/30/19         09:44         05/02/19         21:58         21           4-Bromofluorobenzene (Surr)         102         70-130         04/30/19         09:44         05/02/19         17:12         21           Dibromofluoromethane (Surr)         97         70-130         04/30/19         09:44         05/02/19         21:58         21           Dibromofluoromethane (Surr)         100         70-130         04/30/19         09:44         05/02/19         17:12         21           Dibromofluoromethane (Surr)         107         70-130         04/30/19         09:44         05/02/19         17:12  | Analyte                         | Result     | Qualifier    | RL       |          |        | D | Prepared       | Analyzed       | Dil Fac |
| Toluene         0.0106         0.00177         0.000654         mg/Kg         04/30/19         09:44         05/02/19         21:58           Xylenes, Total         0.971         0.255         0.0526         mg/Kg         04/30/19         09:44         05/02/19         17:12           Surrogate         %Recovery         Qualifier         Limits         Prepared         Analyzed         Dil Fai           1,2-Dichloroethane-d4 (Surr)         142         70         130         04/30/19         09:44         05/02/19         17:12         4           4-Bromofluorobenzene (Surr)         102         70         130         04/30/19         09:44         05/02/19         17:12         4           4-Bromofluorobenzene (Surr)         102         70         130         04/30/19         09:44         05/02/19         17:12         5           Dibromofluoromethane (Surr)         97         70         130         04/30/19         09:44         05/02/19         17:12         5           Toluene-d8 (Surr)         107         70.130         04/30/19         09:44         05/02/19         17:12         5           Toluene-d8 (Surr)         107         70.130         04/30/19         09:44         05/02/19         <  | Benzene                         | 0.00400    |              | 0.00177  | 0.000592 | mg/Kg  |   | 04/30/19 09:44 | 05/02/19 21:58 | 1       |
| Xylenes, Total         0.971         0.255         0.0526 mg/Kg         04/30/19 09:44         05/02/19 17:12           Surrogate         %Recovery         Qualifier         Limits         Prepared         Analyzed         Dil Fa           1,2-Dichloroethane-d4 (Surr)         142         X         70.130         04/30/19 09:44         05/02/19 17:12         Dil Fa           4-Bromofluorobenzene (Surr)         102         70.130         04/30/19 09:44         05/02/19 21:58         Dibromofluorobenzene (Surr)         04/30/19 09:44         05/02/19 17:12         Dibromofluorobenzene (Surr)         04/30/19 09:44         05/02/19 17:12         Dibromofluoromethane (Surr)         97         70.130         04/30/19 09:44         05/02/19 17:12         Dibromofluoromethane (Surr)         100         70.130         04/30/19 09:44         05/02/19 17:12         Dibromofluoromethane (Surr)         107         70.130         04/30/19 09:44         05/02/19 17:12         Dibromofluoromethane (Surr)         Dibromofluorobe (Surr)         107         100   | Ethylbenzene                    | 0.291      |              | 0.00177  | 0.000592 | mg/Kg  |   | 04/30/19 09:44 | 05/02/19 21:58 | 1       |
| Surrogate         %Recovery         Qualifier         Limits         Prepared         Analyzed         Dil Far           12-Dichloroethane-d4 (Surr)         142         X         70-130         04/30/19 09:44         05/02/19 17:12         Dil Far           12-Dichloroethane-d4 (Surr)         142         X         70-130         04/30/19 09:44         05/02/19 17:12         Dil Far           4-Bromofluorobenzene (Surr)         102         70-130         04/30/19 09:44         05/02/19 17:12         Dil Far           0-biromofluoromethane (Surr)         97         70-130         04/30/19 09:44         05/02/19 17:12         Dil Far           Dibromofluoromethane (Surr)         100         70-130         04/30/19 09:44         05/02/19 17:12         Dil Far           Toluene-d8 (Surr)         101         70-130         04/30/19 09:44         05/02/19 17:12         Dil Far           Toluene-d8 (Surr)         107         70-130         04/30/19 09:44         05/02/19 17:12         Dil Far           Toluene-d8 (Surr)         107         70-130         04/30/19 09:44         05/02/19 17:12         Dil Far           Gasoline Range Organics [C6 -         49.7         4.66         2.33         mg/Kg         Di/30/19 09:44         05/01/19 08:04         Dil Far <tr< td=""><td>Toluene</td><td>0.0106</td><td></td><td>0.00177</td><td>0.000654</td><td>mg/Kg</td><td></td><td>04/30/19 09:44</td><td>05/02/19 21:58</td><td>1</td></tr<> | Toluene                         | 0.0106     |              | 0.00177  | 0.000654 | mg/Kg  |   | 04/30/19 09:44 | 05/02/19 21:58 | 1       |
| 1.2-Dichloroethane-d4 (Surr)       97       70.130       04/30/19 09:44       05/02/19 17:12         1.2-Dichloroethane-d4 (Surr)       142 X       70.130       04/30/19 09:44       05/02/19 21:58         1.2-Dichloroethane-d4 (Surr)       102       70.130       04/30/19 09:44       05/02/19 21:58         4-Bromofluorobenzene (Surr)       449 X       70.130       04/30/19 09:44       05/02/19 17:12         4-Bromofluorobenzene (Surr)       97       70.130       04/30/19 09:44       05/02/19 17:12         Dibromofluoromethane (Surr)       97       70.130       04/30/19 09:44       05/02/19 17:12         Dibromofluoromethane (Surr)       100       70.130       04/30/19 09:44       05/02/19 17:12         Toluene-d8 (Surr)       101       70.130       04/30/19 09:44       05/02/19 17:12         Toluene-d8 (Surr)       107       70.130       04/30/19 09:44       05/02/19 17:12         Toluene-d8 (Surr)       107       70.130       04/30/19 09:44       05/02/19 17:12         Toluene-d8 (Surr)       107       70.130       04/30/19 09:44       05/01/19 08:04       Dil Fac         Gasoline Range Organics [C6 -       49.7       50.150       04/30/19 09:44       05/01/19 08:04       Dil Fac         Surrogate       %Recovery  | Xylenes, Total                  | 0.971      |              | 0.255    | 0.0526   | mg/Kg  |   | 04/30/19 09:44 | 05/02/19 17:12 | 1       |
| 1.2-Dichloroethane-d4 (Surr)       142 X       70 - 130       04/30/19 09:44       05/02/19 21:58         4-Bromofluorobenzene (Surr)       102       70 - 130       04/30/19 09:44       05/02/19 17:12         4-Bromofluorobenzene (Surr)       449 X       70 - 130       04/30/19 09:44       05/02/19 21:58         Dibromofluoromethane (Surr)       97       70 - 130       04/30/19 09:44       05/02/19 17:12         Dibromofluoromethane (Surr)       100       70 - 130       04/30/19 09:44       05/02/19 17:12         Dibromofluoromethane (Surr)       100       70 - 130       04/30/19 09:44       05/02/19 17:12         Toluene-d8 (Surr)       111       70 - 130       04/30/19 09:44       05/02/19 17:12         Toluene-d8 (Surr)       107       70 - 130       04/30/19 09:44       05/02/19 17:12         Method: 8015B - Gasoline Range Organics - (GC)       Analyte       Result Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dil Fac         Gasoline Range Organics [C6 -       49.7       4.66       2.33       mg/Kg       D       Prepared       Analyzed       Dil Fac         Method: 8015B - Diesel Range Organics (DRO) (GC)       Result Qualifier       RL       MDL       Unit       D       Prepared       Ana   | Surrogate                       |            | Qualifier    | Limits   |          |        |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluoroberzene (Surr)       102       70 - 130       04/30/19 09:44       05/02/19 17:12         4-Bromofluoroberzene (Surr)       449 X       70 - 130       04/30/19 09:44       05/02/19 21:58         Dibromofluoromethane (Surr)       97       70 - 130       04/30/19 09:44       05/02/19 21:58         Dibromofluoromethane (Surr)       100       70 - 130       04/30/19 09:44       05/02/19 21:58         Toluene-d8 (Surr)       111       70 - 130       04/30/19 09:44       05/02/19 21:58         Toluene-d8 (Surr)       107       70 - 130       04/30/19 09:44       05/02/19 21:58         Method: 8015B - Gasoline Range Organics - (GC)       Result Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dil Fac         Gasoline Range Organics [C6 -       49.7       4.66       2.33       mg/Kg       D       Prepared       Analyzed       Dil Fac         Surrogate       %Recovery Qualifier       Limits       50 - 150       Difo2/19 19:07       05/05/19 14:07       10         Method: 8015B - Diesel Range Organics (DRO) (GC)       Nalyte       Result Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dil Fac         Diesel Range Organics [C10-C28]       989       49  | 1,2-Dichloroethane-d4 (Surr)    | 97         |              | 70 - 130 |          |        |   | 04/30/19 09:44 | 05/02/19 17:12 | 1       |
| 4-Bromofluorobenzene (Surr)       449 X       70.130       04/30/19 09:44       05/02/19 21:58         Dibromofluoromethane (Surr)       97       70.130       04/30/19 09:44       05/02/19 21:58         Dibromofluoromethane (Surr)       100       70.130       04/30/19 09:44       05/02/19 21:58         Toluene-d8 (Surr)       111       70.130       04/30/19 09:44       05/02/19 21:58         Toluene-d8 (Surr)       107       70.130       04/30/19 09:44       05/02/19 21:58         Method: 8015B - Gasoline Range Organics - (GC)       Analyte       Result Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dil Fac         Gasoline Range Organics [C6 -       49.7       4.66       2.33       mg/Kg       D       Prepared       Analyzed       Dil Fac         Surrogate       %Recovery       Qualifier       Limits       50-150       Dis/02/19 19:07       05/02/19 19:07       05/02/19 18:07       05/02/19 18:07       05/02/19 18:07       10         Method: 8015B - Diesel Range Organics (DRO) (GC)       Analyte       Result Qualifier       RL       MDL       Unit       D       Prepared       Analyzed       Dil Fac         Diesel Range Organics [C10-C28]       989       49.6       24.8       mg/Kg <td>1,2-Dichloroethane-d4 (Surr)</td> <td>142</td> <td>X</td> <td>70 - 130</td> <td></td> <td></td> <td></td> <td>04/30/19 09:44</td> <td>05/02/19 21:58</td> <td>1</td>                                    | 1,2-Dichloroethane-d4 (Surr)    | 142        | X            | 70 - 130 |          |        |   | 04/30/19 09:44 | 05/02/19 21:58 | 1       |
| Dibromofiluoromethane (Surr)         97         70 - 130         04/30/19 09:44         05/02/19 17:12           Dibromofiluoromethane (Surr)         100         70 - 130         04/30/19 09:44         05/02/19 17:12           Toluene-d8 (Surr)         111         70 - 130         04/30/19 09:44         05/02/19 17:12           Toluene-d8 (Surr)         107         70 - 130         04/30/19 09:44         05/02/19 17:12           Toluene-d8 (Surr)         107         70 - 130         04/30/19 09:44         05/02/19 17:12           Toluene-d8 (Surr)         107         70 - 130         04/30/19 09:44         05/02/19 21:58           Method: 8015B - Gasoline Range Organics - (GC)         Analyze         Analyzed         Dil Fac           Gasoline Range Organics [C6 -         49.7         4.66         2.33         mg/Kg         04/30/19 09:44         05/01/19 08:04         Dil Fac           Surrogate         %Recovery         Qualifier         Limits         04/30/19 09:44         05/01/19 08:04         Dil Fac           Method: 8015B - Diesel Range Organics (DRO) (GC)         Analyzed         Dil Fac         05/02/19 19:07         05/05/19 14:07         10           Diesel Range Organics [C10-C28]         989         49.6         24.8         mg/Kg         05/02/19 19:07         05/05/1  | 4-Bromofluorobenzene (Surr)     | 102        |              | 70 - 130 |          |        |   | 04/30/19 09:44 | 05/02/19 17:12 | 1       |
| Dibromofiluoromethane (Surr)         100         70 - 130         04/30/19 09:44         05/02/19 21:58           Toluene-d8 (Surr)         111         70 - 130         04/30/19 09:44         05/02/19 17:12           Toluene-d8 (Surr)         107         70 - 130         04/30/19 09:44         05/02/19 21:58           Method: 8015B - Gasoline Range Organics - (GC)         Result Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         Dil Fac           Gasoline Range Organics [C6 -         49.7         4.66         2.33         mg/Kg         D/4/30/19 09:44         05/01/19 08:04         Dil Fac           Surrogate         %Recovery         Qualifier         Limits         2.33         mg/Kg         Dissel Range Organics (DRO) (GC)           Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         Dil Fac           Diesel Range Organics [C10-C28]         989         49.6         24.8         mg/Kg         05/02/19 19:07         05/05/19 14:07         10           Surrogate         %Recovery         Qualifier         Limits         02.150         05/02/19 19:07         05/05/19 14:07         10           Surrogate         %Recovery         <   | 4-Bromofluorobenzene (Surr)     | 449        | X            | 70 - 130 |          |        |   | 04/30/19 09:44 | 05/02/19 21:58 | 1       |
| Toluene-d8 (Surr)         111         70 - 130         04/30/19 09:44         05/02/19 17:12           Toluene-d8 (Surr)         107         70 - 130         04/30/19 09:44         05/02/19 21:58           Method: 8015B - Gasoline Range Organics - (GC)<br>Analyte         Result Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         Dil Fac           Gasoline Range Organics [C6 -<br>C10]         49.7         4.66         2.33         mg/Kg         D         Prepared         Analyzed         Dil Fac           Surrogate         %Recovery         Qualifier         Limits         04/30/19 09:44         05/01/19 08:04         Dil Fac           Analyzed         90         50 - 150         Prepared         Analyzed         Dil Fac           Method: 8015B - Diesel Range Organics (DRO) (GC)         Analyzed         Dil Fac         05/02/19 19:07         05/05/19 14:07         100           MRO (C28-C35)         229         49.6         24.8         mg/Kg         Dis/02/19 19:07         05/05/19 14:07         100           Surrogate         %Recovery         Qualifier         Limits         24.8         mg/Kg         Dis/02/19 19:07         05/05/19 14:07         100           Surrogate         %Recovery         Qualifier   | Dibromofluoromethane (Surr)     | 97         |              | 70 - 130 |          |        |   | 04/30/19 09:44 | 05/02/19 17:12 | 1       |
| Toluene-d8 (Surr)         107         70.130         04/30/19 09:44         05/02/19 21:58           Method: 8015B - Gasoline Range Organics - (GC)<br>Analyte         Result Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         Dil Fac           Gasoline Range Organics [C6 -<br>C10]         4.66         2.33         mg/Kg         D         Prepared         Analyzed         Dil Fac           Surrogate<br>a.a,a-Trifluorotoluene         %Recovery         Qualifier         Limits         Differ         Prepared         Analyzed         Dil Fac           Method: 8015B - Diesel Range Organics (DRO) (GC)<br>Analyte         Result Qualifier         RL         MDL         Unit         Differ         Of/05/02/19 19:07         05/05/19 14:07         100           Method: 8015B - Diesel Range Organics (DRO) (GC)<br>Analyte         Result Qualifier         RL         MDL         Unit         Differ         Of/05/02/19 19:07         05/05/19 14:07         100           MRO (C28-C35)         229         49.6         24.8         mg/Kg         Differ         Of/05/02/19 19:07         05/05/19 14:07         100           Surrogate         %Recovery         Qualifier         Limits         07.150         Prepared         Analyzed         Dil Fac           o-Terphenyl (Su   | Dibromofluoromethane (Surr)     | 100        |              | 70 - 130 |          |        |   | 04/30/19 09:44 | 05/02/19 21:58 | 1       |
| Method:8015B - Gasoline Range Organics - (GC)<br>AnalyteResult<br>QualifierQualifierRLMDLUnitDPrepared<br>04/30/19 09:44Analyzed<br>05/01/19 08:04Dil Factor<br>C10]Surrogate<br>a, a, a-Trifluorotoluene%Recovery<br>90Qualifier<br>90Limits<br>50 - 150Prepared<br>04/30/19 09:44Analyzed<br>05/01/19 08:04Dil Factor<br>Dil Factor<br>Dil FactorMethod:8015B - Diesel Range Organics (DRO) (GC)<br>Analyte<br>Diesel Range Organics [C10-C28]Result<br>989Qualifier<br>49.6RL<br>49.6MDL<br>24.8Unit<br>mg/KgD<br>Prepared<br>   | Toluene-d8 (Surr)               | 111        |              | 70 - 130 |          |        |   | 04/30/19 09:44 | 05/02/19 17:12 | 1       |
| AnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FactoriaGasoline Range Organics [C6 -<br>C10]49.749.74.662.33mg/KgDPreparedAnalyzedDil FactoriaSurrogate<br>a,a,a-Trifluorotoluene%Recovery<br>90Qualifier<br>90Limits<br>50 - 150Prepared<br>04/30/19 09:44Analyzed<br>05/01/19 08:04Dil FactoriaMethod:8015B - Diesel Range<br>04/30/19 09:44Organics (DRO) (GC)<br>Result<br>QualifierMDL<br>49.6Unit<br>24.8DPrepared<br>04/30/19 09:44Analyzed<br>05/01/19 08:04Dil Factoria<br>05/05/19 14:07Method:8015B - Diesel Range<br>Diesel Range Organics (C10-C28]<br>WRO (C28-C35)Result<br>229Qualifier<br>49.6RL<br>24.8MDL<br>mg/KgUnit<br>05/02/19 19:07DPrepared<br>05/05/19 14:07Dil Factoria<br>10Surrogate<br>o-Terphenyl (Surr)%Recovery<br>135Qualifier<br>135Limits<br>50 - 150Prepared<br>24.8Analyzed<br>05/02/19 19:07Dil Factoria<br>05/05/19 14:07Dil Factoria<br>10Method:300.0 - Anions, Ion Chromatography - SolubleSolubleDil Factoria<br>05/02/19 19:07Dil Factoria<br>05/05/19 14:07Dil Factoria<br>10  | Toluene-d8 (Surr)               | 107        |              | 70 - 130 |          |        |   | 04/30/19 09:44 | 05/02/19 21:58 | 1       |
| AnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FactoriaGasoline Range Organics [C6 -<br>C10]49.749.74.662.33mg/KgDPreparedAnalyzedDil FactoriaSurrogate<br>a,a,a-Trifluorotoluene%RecoveryQualifier<br>90Limits<br>50 - 150PreparedAnalyzedDil FactoriaMethod:8015B - Diesel RangeOrganics (DRO) (GC)<br>AnalyteResult<br>989QualifierRL<br>49.6MDL<br>24.8Unit<br>mg/KgDPrepared<br>04/30/19 09:44Analyzed<br>05/01/19 08:04Dil Factoria<br>05/05/19 14:07Method:8015B - Diesel Range Organics (DRO) (GC)<br>AnalyteResult<br>QualifierQualifier<br>49.6RL<br>49.6MDL<br>24.8Unit<br>mg/KgDPrepared<br>05/02/19 19:07Analyzed<br>05/05/19 14:07Dil Factoria<br>10Method:8015B - Diesel Range Organics [C10-C28]<br>05/05/1998949.624.8<br>50 - 150DPrepared<br>05/02/19 19:07Analyzed<br>05/05/19 14:07Dil Factoria<br>10Method:Surrogate<br>05/02/19 19:07%Recovery<br>135Qualifier<br>135Limits<br>50 - 150Prepared<br>05/02/19 19:07Analyzed<br>05/05/19 14:07Dil Factoria<br>10Method:300.0 - Anions, Ion Chromatography - SolubleSolubleMothor 200.0Analyzed<br>05/02/19 19:07Dil Factoria<br>05/05/19 14:07   |                                 |            |              |          |          |        |   |                |                |         |
| Gasoline Range Organics [C6 -<br>C10]         49.7         4.66         2.33         mg/Kg         04/30/19         09:44         05/01/19         08:04         06/01/19         06/01/19         06/01/19         06/01/19         06/01/19         06/01/19         06/01/19         06/01/19         06/01/19         06/01/19         06/01   |                                 |            |              | DI       | МП       | Unit   | п | Propared       | Analyzod       | Dil Eac |
| C10]Surrogate<br>a,a,a-Trifluorotoluene%Recovery<br>90Qualifier<br>90Limits<br>   |                                 |            | Quaimer      |          |          |        |   |                |                | 1       |
| a,a,a-Trifluorotoluene         90         50 - 150         04/30/19 09:44         05/01/19 08:04           Method: 8015B - Diesel Range Organics (DRO) (GC)<br>Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         Dil Fac           Diesel Range Organics [C10-C28]         989         49.6         24.8         mg/Kg         05/02/19 19:07         05/05/19 14:07         10           MRO (C28-C35)         229         49.6         24.8         mg/Kg         05/02/19 19:07         05/05/19 14:07         10           Surrogate         %Recovery         Qualifier         Limits         24.8         mg/Kg         05/02/19 19:07         05/05/19 14:07         10           Method: 300.0 - Anions, Ion Chromatography - Soluble         50 - 150         Method:         05/02/19 19:07         05/05/19 14:07         10   |                                 | 43.7       |              | 4.00     | 2.55     | mg/rtg |   | 04/30/19 09.44 | 05/01/19 00.04 | I       |
| Method:         8015B - Diesel Range Organics (DRO) (GC)           Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed         Dil Fac           Diesel Range Organics [C10-C28]         989         49.6         24.8         mg/Kg         05/02/19 19:07         05/05/19 14:07         10           MRO (C28-C35)         229         49.6         24.8         mg/Kg         05/02/19 19:07         05/05/19 14:07         10           Surrogate         %Recovery         Qualifier         Limits         Dimeter         Prepared         Analyzed         Dil Fac           o-Terphenyl (Surr)         135         050 - 150         05/02/19 19:07         05/05/19 14:07         10           Method:         300.0 - Anions, Ion Chromatography - Soluble         50 - 150         05/02/19 19:07         05/05/19 14:07         10   | Surrogate                       | %Recovery  | Qualifier    | Limits   |          |        |   | Prepared       | Analyzed       | Dil Fac |
| Analyte<br>Diesel Range Organics [C10-C28]<br>Disel Range Organics [C10-C28]Result<br>989Qualifier<br>  | a,a,a-Trifluorotoluene          | 90         |              | 50 - 150 |          |        |   | 04/30/19 09:44 | 05/01/19 08:04 | 1       |
| Analyte<br>Diesel Range Organics [C10-C28]<br>Diesel Range Organics [C10-C28]Result<br>989Qualifier<br>49.6RL<br>49.6MDL<br>24.8Unit<br>mg/KgD<br>Prepared<br>05/02/19 19:07Analyzed<br>05/05/19 14:07Dil Fact<br>10MRO (C28-C35)22949.624.8mg/Kg05/02/19 19:0705/05/19 14:0710Surrogate<br>o-Terphenyl (Surr)%Recovery<br>135Qualifier<br>135Limits<br>50 - 150Prepared<br>05/02/19 19:07Analyzed<br>05/05/19 14:07Dil Fact<br>10Method: 300.0 - Anions, Ion Chromatography - SolubleSolubleSolublePrepared<br>05/02/19 19:07Analyzed<br>05/05/19 14:07Dil Fact<br>10  | Method: 8015B - Diesel Range    | e Organics | (DRO) (GC)   |          |          |        |   |                |                |         |
| MRO (C28-C35)         229         49.6         24.8 mg/Kg         05/02/19 19:07         05/05/19 14:07         10           Surrogate<br>o-Terphenyl (Surr)         %Recovery<br>135         Qualifier<br>135         Limits<br>50 - 150         Prepared         Analyzed         Dil Factoria           Method: 300.0 - Anions, Ion Chromatography - Soluble         Soluble         Soluble         Method: 300.0 - Anions, Ion Chromatography - Soluble         Soluble  |                                 |            |              | RL       | MDL      | Unit   | D | Prepared       | Analyzed       | Dil Fac |
| MRO (C28-C35)         229         49.6         24.8 mg/Kg         05/02/19 19:07         05/05/19 14:07         10           Surrogate<br>o-Terphenyl (Surr)         %Recovery<br>135         Qualifier<br>135         Limits<br>50 - 150         Prepared         Analyzed         Dil Factoria           Method: 300.0 - Anions, Ion Chromatography - Soluble         Soluble         Soluble         Method: 300.0 - Anions, Ion Chromatography - Soluble         Soluble  | Diesel Range Organics [C10-C28] | 989        |              | 49.6     | 24.8     | mg/Kg  |   | 05/02/19 19:07 | 05/05/19 14:07 | 10      |
| o-Terphenyl (Surr)       135       50 - 150       05/02/19 19:07       05/05/19 14:07       10         Method: 300.0 - Anions, Ion Chromatography - Soluble   |                                 | 229        |              | 49.6     | 24.8     | mg/Kg  |   | 05/02/19 19:07 | 05/05/19 14:07 | 10      |
| Method: 300.0 - Anions, Ion Chromatography - Soluble  | Surrogate                       | %Recovery  | Qualifier    | Limits   |          |        |   | Prepared       | Analyzed       | Dil Fac |
|   | o-Terphenyl (Surr)              | 135        |              | 50 - 150 |          |        |   | 05/02/19 19:07 | 05/05/19 14:07 | 10      |
|   | Method: 300.0 - Anions. Ion C   | hromatogra | aphy - Solul | ole      |          |        |   |                |                |         |
| Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac  | Analyte                         |            |              | RL       | MDL      | Unit   | D | Prepared       | Analyzed       | Dil Fac |
|   |                                 | 143        |              | 9.95     | 6.96     | mg/Kg  |   | · · ·          |                | 1       |

Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

SB1 - @ 8' bgs

Date Collected: 04/23/19 11:35

Date Received: 04/26/19 09:25

Client Sample ID: EMSU B Tank Battery New April Release -

## Job ID: 490-172773-1

Matrix: Solid

Lab Sample ID: 490-172773-9

6

5/6/2019

| Organics [C10-C28] | 766        |            | 49.7     | 24.8 | mg/Kg |   | 05/02/19 19:07 | 05/05/19 16:10 |     |
|--------------------|------------|------------|----------|------|-------|---|----------------|----------------|-----|
| )                  | 221        |            | 24.8     | 12.4 | mg/Kg |   | 05/02/19 19:07 | 05/05/19 14:25 |     |
|                    | %Recovery  | Qualifier  | Limits   |      |       |   | Prepared       | Analyzed       | Dil |
| r)                 | 103        |            | 50 - 150 |      |       |   | 05/02/19 19:07 | 05/05/19 14:25 |     |
| r)                 | 129        |            | 50 - 150 |      |       |   | 05/02/19 19:07 | 05/05/19 16:10 |     |
| 0 - Anions, Ion C  | hromatogra | phy - Solu | ıble     |      |       |   |                |                |     |
|                    | _          | Qualifier  | RL       | MDL  | Unit  | D | Prepared       | Analyzed       | Dil |
|                    | 14.1       |            | 9.75     | 6.82 | mg/Kg |   |                | 04/30/19 22:01 |     |
|                    |            |            |          |      |       |   |                |                |     |
|                    |            |            |          |      |       |   |                |                |     |
|                    |            |            |          |      |       |   |                |                |     |
|                    |            |            |          |      |       |   |                |                |     |
|                    |            |            |          |      |       |   |                |                |     |
|                    |            |            |          |      |       |   |                |                |     |
|                    |            |            |          |      |       |   |                |                |     |

RL

0.00181

0.0982

0.00181

0.295

MDL Unit

0.0334 mg/Kg

0.0609 mg/Kg

0.000607 mg/Kg

0.000670 mg/Kg

Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

Method: 8260B - Volatile Organic Compounds (GC/MS)

## Client Sample ID: EMSU B Tank Battery New April Release -

**Result Qualifier** 

ND

ND

1.33

0.644

SB1 - @ 10' bgs

Analyte

Benzene

Toluene

Ethylbenzene

**Xylenes**, Total

Date Collected: 04/23/19 11:53 Date Received: 04/26/19 09:25

| Surrogate                                | %Recovery         | Qualifier                               | Limits   |      |       |   | Prepared                   | Analyzed                   | Dil Fac       |
|--|-------------------|---|----------|------|-------|---|----------------------------|----------------------------|---------------|
| 1,2-Dichloroethane-d4 (Surr)             | 95                |   | 70 - 130 |      |       |   | 04/30/19 11:19             | 05/02/19 19:34             | 1             |
| 1,2-Dichloroethane-d4 (Surr)             | 182               | x                                       | 70 - 130 |      |       |   | 04/30/19 11:19             | 05/03/19 14:28             | 1             |
| 4-Bromofluorobenzene (Surr)              | 104               |   | 70 - 130 |      |       |   | 04/30/19 11:19             | 05/02/19 19:34             | 1             |
| 4-Bromofluorobenzene (Surr)              | 381               | X                                       | 70 - 130 |      |       |   | 04/30/19 11:19             | 05/03/19 14:28             | 1             |
| Dibromofluoromethane (Surr)              | 99                |   | 70 - 130 |      |       |   | 04/30/19 11:19             | 05/02/19 19:34             | 1             |
| Dibromofluoromethane (Surr)              | 102               |   | 70 - 130 |      |       |   | 04/30/19 11:19             | 05/03/19 14:28             | 1             |
| Toluene-d8 (Surr)                        | 117               |   | 70 - 130 |      |       |   | 04/30/19 11:19             | 05/02/19 19:34             | 1             |
| Toluene-d8 (Surr)                        | 108               |   | 70 - 130 |      |       |   | 04/30/19 11:19             | 05/03/19 14:28             | 1             |
| _<br>Method: 8015B - Gasoline Rar        | nge Organio       | :s - (GC)                               |          |      |       |   |                            |                            |               |
| Analyte                                  |                   | Qualifier                               | RL       | MDL  | Unit  | D | Prepared                   | Analyzed                   | Dil Fac       |
| Gasoline Range Organics [C6 -<br>C10]    | 260               | B                                       | 4.22     | 2.11 | mg/Kg |   | 04/30/19 11:19             | 05/01/19 22:02             | 1             |
| Surrogate                                | %Recovery         | Qualifier                               | Limits   |      |       |   | Prepared                   | Analyzed                   | Dil Fac       |
| a,a,a-Trifluorotoluene                   | 89                |   | 50 - 150 |      |       |   | 04/30/19 11:19             | 05/01/19 22:02             | 1             |
| _<br>Method: 8015B - Diesel Range        | Organics (        | DRO) (GC)                               |          |      |       |   |                            |                            |               |
| Analyte                                  |                   | Qualifier                               | RL       | MDL  | Unit  | D | Prepared                   | Analyzed                   | Dil Fac       |
| Diesel Range Organics [C10-C28]          | 766               |   | 49.7     | 24.8 | mg/Kg |   | 05/02/19 19:07             | 05/05/19 16:10             | 10            |
| MRO (C28-C35)                            | 221               |   | 24.8     | 12.4 | mg/Kg |   | 05/02/19 19:07             | 05/05/19 14:25             | 5             |
| Surrogate                                | %Recovery         | Qualifier                               | Limits   |      |       |   | Prepared                   | Analyzed                   | Dil Fac       |
|  | 103               |   | 50 - 150 |      |       |   | 05/02/19 19:07             | 05/05/19 14:25             | 5             |
| o-Terphenyl (Surr)                       | 103               |   | 00 - 700 |      |       |   |                            |                            |               |
| o-Terphenyl (Surr)<br>o-Terphenyl (Surr) | 103               |   | 50 - 150 |      |       |   | 05/02/19 19:07             | 05/05/19 16:10             | 10            |
| o-Terphenyl (Surr)                       | 129               | iphy - Solut                            | 50 - 150 |      |       |   | 05/02/19 19:07             | 05/05/19 16:10             | 10            |
|  | 129<br>hromatogra | i <mark>phy - Solub</mark><br>Qualifier | 50 - 150 | MDL  | Unit  | D | 05/02/19 19:07<br>Prepared | 05/05/19 16:10<br>Analyzed | 10<br>Dil Fac |

5/6/2019

## Matrix: Solid

Analyzed

Lab Sample ID: 490-172773-10

04/30/19 11:19 05/03/19 14:28

04/30/19 11:19 05/02/19 19:34

04/30/19 11:19 05/03/19 14:28

04/30/19 11:19 05/02/19 19:34

Prepared

D

5 6

Dil Fac

1

1

1

| Client Sample ID: EMSU B   |            | Lab Sample ID: 490-172773-11        |           |          |       |   |                |                |               |  |
|--|------------|-------------------------------------|-----------|----------|-------|---|----------------|----------------|---------------|--|
| SB1 - @ 12' bgs<br>Date Collected: 04/23/19 12:00<br>Date Received: 04/26/19 09:25 |            |                                     |           |          |       |   |                | Matrix         | Matrix: Solid |  |
|  |            | unds (GC/N<br>Qualifier             | IS)<br>RL | MDI      | Unit  | D | Prepared       | Analyzed       | Dil Fac       |  |
| Benzene  |            |                                     | 0.00189   | 0.000633 |       |   | 04/30/19 11:19 | 05/02/19 20:32 | 1             |  |
| Ethylbenzene   | 0.0168     |                                     | 0.00189   | 0.000633 |       |   |                | 05/02/19 20:32 | 1             |  |
| Toluene  | ND         |                                     | 0.00189   | 0.000699 | 0 0   |   |                | 05/02/19 20:32 | 1             |  |
| Xylenes, Total   | 0.0624     |                                     | 0.00567   | 0.00116  | 0 0   |   |                | 05/02/19 20:32 | 1             |  |
| Surrogate  | %Recovery  | Qualifier                           | Limits    |          |       |   | Prepared       | Analyzed       | Dil Fac       |  |
| 1,2-Dichloroethane-d4 (Surr)   | 109        |                                     | 70 - 130  |          |       |   | 04/30/19 11:19 | 05/02/19 20:32 | 1             |  |
| 4-Bromofluorobenzene (Surr)  | 142        | X                                   | 70 - 130  |          |       |   | 04/30/19 11:19 | 05/02/19 20:32 | 1             |  |
| Dibromofluoromethane (Surr)  | 99         |                                     | 70 - 130  |          |       |   | 04/30/19 11:19 | 05/02/19 20:32 | 1             |  |
| Toluene-d8 (Surr)  | 90         |                                     | 70 - 130  |          |       |   | 04/30/19 11:19 | 05/02/19 20:32 | 1             |  |
| Method: 8015B - Gasoline Rar<br>Analyte  |            | <mark>:s - (GC)</mark><br>Qualifier | RL        | MDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac       |  |
| Gasoline Range Organics [C6 -<br>C10]  | 35.2       |                                     | 4.65      | 2.32     | mg/Kg |   | 04/30/19 11:19 | 05/01/19 14:06 | 1             |  |
| Surrogate  | %Recovery  | Qualifier                           | Limits    |          |       |   | Prepared       | Analyzed       | Dil Fac       |  |
| a,a,a-Trifluorotoluene   | 91         |                                     | 50 - 150  |          |       |   | 04/30/19 11:19 | 05/01/19 14:06 | 1             |  |
| _<br>Method: 8015B - Diesel Range<br>Analyte                                       |            | (DRO) (GC)<br>Qualifier             | RL        | МП       | Unit  | D | Prepared       | Analyzed       | Dil Fac       |  |
| Diesel Range Organics [C10-C28]  | 112        |                                     | 4.98      |          | mg/Kg |   | 05/02/19 19:07 | 05/05/19 14:42 | 1             |  |
| MRO (C28-C35)  | 30.1       |                                     | 4.98      |          | mg/Kg |   | 05/02/19 19:07 | 05/05/19 14:42 | 1             |  |
| Surrogate  | %Recovery  | Qualifier                           | Limits    |          |       |   | Prepared       | Analyzed       | Dil Fac       |  |
| o-Terphenyl (Surr)   | 70         |                                     | 50 - 150  |          |       |   | 05/02/19 19:07 | •              | 1             |  |
| _<br>Method: 300.0 - Anions, Ion C   | hromatoora | phy - Solut                         | ble       |          |       |   |                |                |               |  |
| Analyte  |            | Qualifier                           | RL        | MDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac       |  |
| Chloride   | 20.9       |                                     | 10.1      |          | mg/Kg |   | -              | -              |               |  |

Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

5/6/2019

5 6

Job ID: 490-172773-1

Job ID: 490-172773-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Lab Sample ID: 490-172773-9 MS          |           |           | Client Samp | le ID: EM | SU B Ta   | nk Batte | ry Ne | w April | l Release - SB1 - @ 8'<br>bgs                      |
|---|-----------|-----------|-------------|-----------|-----------|----------|-------|---------|--|
| Matrix: Solid<br>Analysis Batch: 592131 | Sample    | Sample    | Spike       | MS        | MS        |          |       |         | Prep Type: Total/NA<br>Prep Batch: 591460<br>%Rec. |
| Analyte                                 | Result    | Qualifier | Added       | Result    | Qualifier | Unit     | D     | %Rec    | Limits   |
| Benzene                                 | ND        |           | 2.12        | 2.078     |           | mg/Kg    |       | 98      | 21 - 150   |
| Ethylbenzene                            | 0.375     |           | 2.12        | 2.367     |           | mg/Kg    |       | 94      | 10 - 150   |
| Toluene                                 | ND        |           | 2.12        | 2.133     |           | mg/Kg    |       | 101     | 17 - 150   |
| Xylenes, Total                          | 0.971     |           | 4.24        | 4.801     |           | mg/Kg    |       | 90      | 10 - 150   |
|   | MS        | MS        |             |           |           |          |       |         |  |
| Surrogate                               | %Recovery | Qualifier | Limits      |           |           |          |       |         |  |
| 1,2-Dichloroethane-d4 (Surr)            | 95        |           | 70 - 130    |           |           |          |       |         |  |
| 4-Bromofluorobenzene (Surr)             | 103       |           | 70 - 130    |           |           |          |       |         |  |
| Dibromofluoromethane (Surr)             | 96        |           | 70 - 130    |           |           |          |       |         |  |
| Toluene-d8 (Surr)                       | 108       |           | 70 - 130    |           |           |          |       |         |  |

#### Lab Sample ID: 490-172773-9 MSD

#### Client Sample ID: EMSU B Tank Battery New April Release - SB1 - @ 8'

| Matrix: Solid<br>Analysis Batch: 592131 |        |           |       |        |           |       |   | -    | Prep Ty<br>Prep Ba |     |       |
|---|--------|-----------|-------|--------|-----------|-------|---|------|--------------------|-----|-------|
|   | Sample | Sample    | Spike | MSD    | MSD       |       |   |      | %Rec.              |     | RPD   |
| Analyte                                 | Result | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec | Limits             | RPD | Limit |
| Benzene                                 | ND     |           | 2.12  | 2.080  |           | mg/Kg |   | 98   | 21 - 150           | 0   | 50    |
| Ethylbenzene                            | 0.375  |           | 2.12  | 2.297  |           | mg/Kg |   | 91   | 10 - 150           | 3   | 50    |
| Toluene                                 | ND     |           | 2.12  | 2.111  |           | mg/Kg |   | 99   | 17 - 150           | 1   | 50    |
| Xylenes, Total                          | 0.971  |           | 4.24  | 4.652  |           | mg/Kg |   | 87   | 10 - 150           | 3   | 50    |

|                              | MSD       | MSD       |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 95        |           | 70 - 130 |
| 4-Bromofluorobenzene (Surr)  | 102       |           | 70 - 130 |
| Dibromofluoromethane (Surr)  | 97        |           | 70 - 130 |
| Toluene-d8 (Surr)            | 111       |           | 70 - 130 |

#### Lab Sample ID: 490-172773-1 MS

#### Client Sample ID: EMSU B Tank Battery New April Release - HDP1 - @ 6"

| Matrix: Solid<br>Analysis Batch: 592141 | Sample    | Sample    | Spike    | MS      | MS        |       |   |      | bgs<br>Prep Type: Total/NA<br>Prep Batch: 591461<br>%Rec. |
|---|-----------|-----------|----------|---------|-----------|-------|---|------|---|
| Analyte                                 | Result    | Qualifier | Added    | Result  | Qualifier | Unit  | D | %Rec | Limits  |
| Benzene                                 | ND        |           | 0.0427   | 0.04121 |           | mg/Kg |   | 97   | 21 - 150  |
| Ethylbenzene                            | ND        |           | 0.0427   | 0.03908 |           | mg/Kg |   | 92   | 10 - 150  |
| Toluene                                 | ND        |           | 0.0427   | 0.03895 |           | mg/Kg |   | 91   | 17 - 150  |
| Xylenes, Total                          | 0.00470   | J         | 0.0853   | 0.08046 |           | mg/Kg |   | 89   | 10 - 150  |
|   | MS        | MS        |          |         |           |       |   |      |   |
| Surrogate                               | %Recovery | Qualifier | Limits   |         |           |       |   |      |   |
| 1,2-Dichloroethane-d4 (Surr)            | 97        |           | 70 - 130 |         |           |       |   |      |   |
| 4-Bromofluorobenzene (Surr)             | 102       |           | 70 - 130 |         |           |       |   |      |   |
| Dibromofluoromethane (Surr)             | 104       |           | 70 - 130 |         |           |       |   |      |   |
| Toluene-d8 (Surr)                       | 97        |           | 70 - 130 |         |           |       |   |      |   |

#### Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

## **QC Sample Results**

Job ID: 490-172773-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Matrix: Solid<br>Analysis Batch: 592141   |           |                    |                 |  |               |      |       |         |        |                 | Prep Type:<br>Prep Batch   |                              |       |
|---|-----------|--------------------|-----------------|--|---------------|------|-------|---------|--------|-----------------|--|------------------------------|-------|
| Analysis Batch. 552141  | Sample    | Sam                | nlo             | Spike  | MSD           | мег  | h     |         |        |                 | %Rec.  | . 59                         | RPE   |
| Analyte   | Result    |                    | •               | Added  | Result        | -    |       | Unit    | D      | %Rec            |  | PD                           | Limi  |
| Benzene   |           | Guu                |                 |  | 0.03634       | Guu  |       | mg/Kg   |        | 76              | 21 - 150   | 13 -                         | 50    |
| Ethylbenzene  | ND        |                    |                 |  | 0.03596       |      |       | mg/Kg   |        | 75              | 10 - 150   | 8                            | 50    |
| Toluene   | ND        |                    |                 |  | 0.03470       |      |       | mg/Kg   |        | 72              | 17 - 150   | 12                           | 50    |
| Xylenes, Total  | 0.00470   |                    |                 |  | 0.08208       |      |       | mg/Kg   |        | 81              | 10 - 150   | 2                            | 5     |
|   |           |                    |                 | 0.0000   | 0.00200       |      |       | ing/itg |        | 01              | 10 - 100   | 2                            | 0     |
|   | MSD       |                    |                 |  |               |      |       |         |        |                 |  |                              |       |
| Surrogate   | %Recovery | Qua                | lifier          | Limits   |               |      |       |         |        |                 |  |                              |       |
| 1,2-Dichloroethane-d4 (Surr)  | 95        |                    |                 | 70 - 130   |               |      |       |         |        |                 |  |                              |       |
| 4-Bromofluorobenzene (Surr)   | 100       |                    |                 | 70 - 130   |               |      |       |         |        |                 |  |                              |       |
| Dibromofluoromethane (Surr)   | 105       |                    |                 | 70 - 130   |               |      |       |         |        |                 |  |                              |       |
| Toluene-d8 (Surr)   | 96        |                    |                 | 70 - 130   |               |      |       |         |        |                 |  |                              |       |
| Analyte   | Re        |                    | MB<br>Qualifier | RL   | 1             | MDL  | Unit  |         | ) Р    | repared         | Analyzed   | D                            | il Fa |
| Benzene   |           | ND                 |                 | 0.100  | 0.0           | 0340 | mg/Kg |         |        | •               | 05/02/19 14:1  | 3 —                          |       |
| Ethylbenzene  |           | ND                 |                 | 0.100  | 0.0           | 0340 | mg/Kg |         |        |                 | 05/02/19 14:1  | 3                            |       |
| Toluene   |           | ND                 |                 | 0.100  | 0.0           | 0370 | mg/Kg |         |        |                 | 05/02/19 14:1  | 3                            |       |
| Xylenes, Total  |           | ND                 |                 | 0.300  | 0.0           | 0620 | mg/Kg |         |        |                 | 05/02/19 14:1  | 3                            |       |
|   |           | ΜВ                 | МВ              |  |               |      |       |         |        |                 |  |                              |       |
|   |           |                    | O               | Limits   |               |      |       |         | P      | repared         | Analyzed   | D                            | il Fa |
| Surrogate   | %Recov    | /ery               | Qualifier       |  |               |      |       |         |        |                 | 05/02/19 14:1  | 3                            |       |
| <b>v</b>  |           | <b>/ery</b><br>116 | Qualifier       | 70 - 130   |               |      |       |         |        |                 |  |                              |       |
| 1,2-Dichloroethane-d4 (Surr)  |           | -                  | Quaimer         |  |               |      |       |         |        |                 | 05/02/19 14:1  | 3                            |       |
| Surrogate<br>1,2-Dichloroethane-d4 (Surr)<br>4-Bromofluorobenzene (Surr)<br>Dibromofluoromethane (Surr)   |           | 116                | Quaimer         | 70 - 130   |               |      |       |         |        |                 |  |                              | 1     |
| 1,2-Dichloroethane-d4 (Surr)<br>4-Bromofluorobenzene (Surr)<br>Dibromofluoromethane (Surr)  |           | 116<br>101         | Quaimer         | 70 - 130<br>70 - 130   |               |      |       |         |        |                 | 05/02/19 14:1  | 3                            |       |
| 1,2-Dichloroethane-d4 (Surr)<br>4-Bromofluorobenzene (Surr)<br>Dibromofluoromethane (Surr)<br>Toluene-d8 (Surr)   |           | 116<br>101<br>104  | Quaimer         | 70 - 130<br>70 - 130<br>70 - 130<br>70 - 130                               |               |      |       | Clier   | nt Sai | mple ID         | 05/02/19 14:1<br>05/02/19 14:1<br>05/02/19 14:1  | 3<br>3                       | ,     |
| 1,2-Dichloroethane-d4 (Surr)<br>4-Bromofluorobenzene (Surr)<br>Dibromofluoromethane (Surr)<br>Toluene-d8 (Surr)   |           | 116<br>101<br>104  | Quaimer         | 70 - 130<br>70 - 130<br>70 - 130<br>70 - 130                               |               |      |       | Clier   | nt Sa  | mple ID         | 05/02/19 14:1<br>05/02/19 14:1<br>05/02/19 14:1<br>: Lab Contro                                  | 3<br>3<br>I <mark>Sar</mark> | nple  |
| 1,2-Dichloroethane-d4 (Surr)<br>4-Bromofluorobenzene (Surr)<br>Dibromofluoromethane (Surr)<br>Toluene-d8 (Surr)<br>Lab Sample ID: LCS 490-<br>Matrix: Solid                                       |           | 116<br>101<br>104  | Quaimer         | 70 - 130<br>70 - 130<br>70 - 130<br>70 - 130                               |               |      |       | Clier   | nt Sai | mple ID         | 05/02/19 14:1<br>05/02/19 14:1<br>05/02/19 14:1  | 3<br>3<br>I <mark>Sar</mark> | nple  |
| 1,2-Dichloroethane-d4 (Surr)<br>4-Bromofluorobenzene (Surr)<br>Dibromofluoromethane (Surr)<br>Toluene-d8 (Surr)<br>Lab Sample ID: LCS 490-<br>Matrix: Solid                                       |           | 116<br>101<br>104  | Quaimer         | 70 - 130<br>70 - 130<br>70 - 130<br>70 - 130                               | LCS           | LCS  | 3     | Clier   | nt Sa  | mple ID         | 05/02/19 14:1<br>05/02/19 14:1<br>05/02/19 14:1<br>: Lab Contro                                  | 3<br>3<br>I <mark>Sar</mark> | nple  |
| 1,2-Dichloroethane-d4 (Surr)<br>4-Bromofluorobenzene (Surr)<br>Dibromofluoromethane (Surr)<br>Toluene-d8 (Surr)<br>Lab Sample ID: LCS 490-<br>Matrix: Solid<br>Analysis Batch: 592131             |           | 116<br>101<br>104  | Quaimer         | 70 - 130<br>70 - 130<br>70 - 130<br>70 - 130<br>70 - 130                   | LCS<br>Result |      |       | Clier   | nt Sar | mple ID<br>%Rec | 05/02/19 14:1<br>05/02/19 14:1<br>05/02/19 14:1<br>: Lab Contro<br>Prep Type:                    | 3<br>3<br>I <mark>Sar</mark> | nple  |
| 1,2-Dichloroethane-d4 (Surr)<br>4-Bromofluorobenzene (Surr)<br>Dibromofluoromethane (Surr)<br>Toluene-d8 (Surr)<br>Lab Sample ID: LCS 490-5   |           | 116<br>101<br>104  |                 | 70 - 130<br>70 - 130<br>70 - 130<br>70 - 130<br>70 - 130                   |               |      |       |         |        |                 | 05/02/19 14:1<br>05/02/19 14:1<br>05/02/19 14:1<br>: Lab Contro<br>Prep Type:<br>%Rec.           | 3<br>3<br>I <mark>Sar</mark> | nple  |
| 1,2-Dichloroethane-d4 (Surr)<br>4-Bromofluorobenzene (Surr)<br>Dibromofluoromethane (Surr)<br>Toluene-d8 (Surr)<br>Lab Sample ID: LCS 490-4<br>Matrix: Solid<br>Analysis Batch: 592131<br>Analyte |           | 116<br>101<br>104  |                 | 70 - 130<br>70 - 130<br>70 - 130<br>70 - 130<br>70 - 130<br>Spike<br>Added | Result        |      |       | Unit    |        | %Rec            | 05/02/19 14:1<br>05/02/19 14:1<br>05/02/19 14:1<br>: Lab Contro<br>Prep Type:<br>%Rec.<br>Limits | 3<br>3<br>I <mark>Sar</mark> | nple  |

|                              | LCS       | LCS       |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 108       |           | 70 - 130 |
| 4-Bromofluorobenzene (Surr)  | 101       |           | 70 - 130 |
| Dibromofluoromethane (Surr)  | 101       |           | 70 - 130 |
| Toluene-d8 (Surr)            | 98        |           | 70 - 130 |

Xylenes, Total

Eurofins TestAmerica, Nashville

104

mg/Kg

70 - 130

5.00

5.210

#### Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Lab Sample ID: LCSD 49<br>Matrix: Solid  | Sample ID: LCSD 490-592131/4 Client Sample ID: Lab Control Sam<br>rix: Solid Prep Type: T |           |          |        |           |       |      |         |                      |     |       |
|--|---|-----------|----------|--------|-----------|-------|------|---------|----------------------|-----|-------|
| Analysis Batch: 592131                   |   |           |          |        |           |       |      |         |                      |     |       |
|  |   |           | Spike    | LCSD   | LCSD      |       |      |         | %Rec.                |     | RPD   |
| Analyte                                  |   |           | Added    | Result | Qualifier | Unit  | D    | %Rec    | Limits               | RPD | Limit |
| Benzene                                  |   |           | 2.50     | 2.619  |           | mg/Kg |      | 105     | 70 - 130             | 0   | 37    |
| Ethylbenzene                             |   |           | 2.50     | 2.633  |           | mg/Kg |      | 105     | 70 - 130             | 3   | 38    |
| Toluene                                  |   |           | 2.50     | 2.626  |           | mg/Kg |      | 105     | 70 - 130             | 3   | 40    |
| Xylenes, Total                           |   |           | 5.00     | 5.258  |           | mg/Kg |      | 105     | 70 - 130             | 1   | 38    |
|  | LCSD  | LCSD      |          |        |           |       |      |         |                      |     |       |
| Surrogate                                | %Recovery   | Qualifier | Limits   |        |           |       |      |         |                      |     |       |
| 1,2-Dichloroethane-d4 (Surr)             | 107   |           | 70 - 130 |        |           |       |      |         |                      |     |       |
| 4-Bromofluorobenzene (Surr)              | 100   |           | 70 - 130 |        |           |       |      |         |                      |     |       |
| Dibromofluoromethane (Surr)              | 104   |           | 70 - 130 |        |           |       |      |         |                      |     |       |
| Toluene-d8 (Surr)                        | 101   |           | 70 - 130 |        |           |       |      |         |                      |     |       |
| Lab Sample ID: MB 490-5<br>Matrix: Solid | 592141/7  |           |          |        |           |       | Clie | ent San | ple ID: M<br>Prep Ty |     |       |

|                | MB     | MB        |         |          |       |   |          |                |         |
|----------------|--------|-----------|---------|----------|-------|---|----------|----------------|---------|
| Analyte        | Result | Qualifier | RL      | MDL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Benzene        | ND     |           | 0.00200 | 0.000670 | mg/Kg |   |          | 05/02/19 14:18 | 1       |
| Ethylbenzene   | ND     |           | 0.00200 | 0.000670 | mg/Kg |   |          | 05/02/19 14:18 | 1       |
| Toluene        | ND     |           | 0.00200 | 0.000740 | mg/Kg |   |          | 05/02/19 14:18 | 1       |
| Xylenes, Total | ND     |           | 0.00600 | 0.00123  | mg/Kg |   |          | 05/02/19 14:18 | 1       |
|                | МР     | MD        |         |          |       |   |          |                |         |

|                              | MB        | MB        |          |          |                |         |  |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|--|
| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |  |
| 1,2-Dichloroethane-d4 (Surr) | 125       |           | 70 - 130 |          | 05/02/19 14:18 | 1       |  |
| 4-Bromofluorobenzene (Surr)  | 96        |           | 70 - 130 |          | 05/02/19 14:18 | 1       |  |
| Dibromofluoromethane (Surr)  | 122       |           | 70 - 130 |          | 05/02/19 14:18 | 1       |  |
| Toluene-d8 (Surr)            | 96        |           | 70 - 130 |          | 05/02/19 14:18 | 1       |  |

#### Lab Sample ID: LCS 490-592141/3 Matrix: Solid Analysis Batch: 592141

Analysis Batch: 592141

|                | Spike  | LCS LCS          |       |        | %Rec.    |
|----------------|--------|------------------|-------|--------|----------|
| Analyte        | Added  | Result Qualifier | Unit  | D %Rec | Limits   |
| Benzene        | 0.0500 | 0.05182          | mg/Kg | 104    | 70 - 130 |
| Ethylbenzene   | 0.0500 | 0.04873          | mg/Kg | 97     | 70 - 130 |
| Toluene        | 0.0500 | 0.04790          | mg/Kg | 96     | 70 - 130 |
| Xylenes, Total | 0.100  | 0.09750          | mg/Kg | 98     | 70 - 130 |
|                |        |                  |       |        |          |

|                              | LCS       | LCS       |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 114       |           | 70 - 130 |
| 4-Bromofluorobenzene (Surr)  | 98        |           | 70 - 130 |
| Dibromofluoromethane (Surr)  | 109       |           | 70 - 130 |
| Toluene-d8 (Surr)            | 95        |           | 70 - 130 |

Prep Type: Total/NA

**Client Sample ID: Lab Control Sample** 

Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

5

7

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Lab Sample ID: LCSD 490-592141/4<br>Matrix: Solid |           |      |           |          | Client Sample ID: Lab Cont<br>Prep |      |        |       |   |      |         |                     | ontrol Sample Dup<br>rep Type: Total/NA |         |  |
|---|-----------|------|-----------|----------|------------------------------------|------|--------|-------|---|------|---------|---------------------|---|---------|--|
| Analysis Batch: 592141                            |           |      |           |          |                                    |      |        |       |   |      |         | i i cp i y          | . 10                                    |         |  |
|   |           |      |           | Spike    | LCSD                               | LCS  | D      |       |   |      |         | %Rec.               |   | RPD     |  |
| Analyte   |           |      |           | Added    | Result                             | Qua  | lifier | Unit  |   | D    | %Rec    | Limits              | RPD                                     | Limit   |  |
| Benzene   |           |      |           | 0.0500   | 0.05218                            |      |        | mg/Kg |   | -    | 104     | 70 - 130            | 1                                       | 37      |  |
| Ethylbenzene                                      |           |      |           | 0.0500   | 0.04824                            |      |        | mg/Kg |   |      | 96      | 70 - 130            | 1                                       | 38      |  |
| Toluene   |           |      |           | 0.0500   | 0.04860                            |      |        | mg/Kg |   |      | 97      | 70 <sub>-</sub> 130 | 1                                       | 40      |  |
| Xylenes, Total                                    |           |      |           | 0.100    | 0.09680                            |      |        | mg/Kg |   |      | 97      | 70 - 130            | 1                                       | 38      |  |
|   | LCSD      | LCSL | D         |          |                                    |      |        |       |   |      |         |                     |   |         |  |
| Surrogate   | %Recovery | Qual | ifier     | Limits   |                                    |      |        |       |   |      |         |                     |   |         |  |
| 1,2-Dichloroethane-d4 (Surr)                      | 114       |      |           | 70 - 130 |                                    |      |        |       |   |      |         |                     |   |         |  |
| 4-Bromofluorobenzene (Surr)                       | 98        |      |           | 70 - 130 |                                    |      |        |       |   |      |         |                     |   |         |  |
| Dibromofluoromethane (Surr)                       | 106       |      |           | 70 - 130 |                                    |      |        |       |   |      |         |                     |   |         |  |
| Toluene-d8 (Surr)                                 | 96        |      |           | 70 - 130 |                                    |      |        |       |   |      |         |                     |   |         |  |
| Lab Sample ID: MB 490-5                           | 92400/6   |      |           |          |                                    |      |        |       |   | Clie | ent San | nple ID: M          |   |         |  |
| Matrix: Solid                                     |           |      |           |          |                                    |      |        |       |   |      |         | Prep Ty             | oe: To                                  | tal/NA  |  |
| Analysis Batch: 592400                            |           |      |           |          |                                    |      |        |       |   |      |         |                     |   |         |  |
|   |           | MB   | MB        |          |                                    |      |        |       |   |      |         |                     |   |         |  |
| Analyte   | Res       | sult | Qualifier | RL       | . I                                | MDL  | Unit   |       | D | P    | repared | Analyz              | ed                                      | Dil Fac |  |
| Benzene   |           | ND   |           | 0.00200  | 0.00                               | 0670 | mg/K   | g     | _ |      |         | 05/03/19            | 13:34                                   | 1       |  |
| Ethylbenzene                                      |           | ND   |           | 0.00200  | 0.00                               | 0670 | mg/K   | g     |   |      |         | 05/03/19            | 13:34                                   | 1       |  |
| Toluene   |           | ND   |           | 0.00200  | 0.00                               | 0740 | mg/K   | g     |   |      |         | 05/03/19            | 13:34                                   | 1       |  |
| Xylenes, Total                                    |           | ND   |           | 0.00600  | 0.00                               | 0123 | mg/K   | 9     |   |      |         | 05/03/19            | 13:34                                   | 1       |  |
|   |           | мв   | МВ        |          |                                    |      |        |       |   |      |         |                     |   |         |  |

|                              | IVI B     | MB        |          |          |                |         |  |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|--|
| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |  |
| 1,2-Dichloroethane-d4 (Surr) | 105       |           | 70 - 130 |          | 05/03/19 13:34 | 1       |  |
| 4-Bromofluorobenzene (Surr)  | 92        |           | 70 - 130 |          | 05/03/19 13:34 | 1       |  |
| Dibromofluoromethane (Surr)  | 106       |           | 70 - 130 |          | 05/03/19 13:34 | 1       |  |
| Toluene-d8 (Surr)            | 115       |           | 70 - 130 |          | 05/03/19 13:34 | 1       |  |

#### Lab Sample ID: LCS 490-592400/3 Matrix: Solid Analysis Batch: 592400

|                | Spike  | LCS LCS         |         |        | %Rec.    |
|----------------|--------|-----------------|---------|--------|----------|
| Analyte        | Added  | Result Qualifie | er Unit | D %Rec | Limits   |
| Benzene        | 0.0500 | 0.04568         | mg/Kg   | 91     | 70 - 130 |
| Ethylbenzene   | 0.0500 | 0.04765         | mg/Kg   | 95     | 70 - 130 |
| Toluene        | 0.0500 | 0.05117         | mg/Kg   | 102    | 70 - 130 |
| Xylenes, Total | 0.100  | 0.09787         | mg/Kg   | 98     | 70 - 130 |
|                |        |                 |         |        |          |

|                              | LCS       | LCS       |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 70 - 130 |
| 4-Bromofluorobenzene (Surr)  | 90        |           | 70 - 130 |
| Dibromofluoromethane (Surr)  | 101       |           | 70 - 130 |
| Toluene-d8 (Surr)            | 107       |           | 70 - 130 |

| Client Sample ID: | Lab Control Sa  | mple  |
|-------------------|-----------------|-------|
|                   | Prep Type: Tota | al/NA |

#### Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

# Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

MD MD

| Lab Sample ID: LCSD 49                   |           | Client Sample ID: Lab Control Sample Dup |          |         |           |         |                       |      |          |         |       |
|--|-----------|--|----------|---------|-----------|---------|-----------------------|------|----------|---------|-------|
| Matrix: Solid                            |           |  |          |         |           |         |                       |      | Prep Ty  | pe: Tot | al/NA |
| Analysis Batch: 592400                   |           |  |          |         |           |         |                       |      |          |         |       |
|  |           |  | Spike    | LCSD    | LCSD      |         |                       |      | %Rec.    |         | RPD   |
| Analyte                                  |           |  | Added    | Result  | Qualifier | Unit    | D                     | %Rec | Limits   | RPD     | Limit |
| Benzene                                  |           |  | 0.0500   | 0.04525 |           | mg/Kg   |                       | 91   | 70 - 130 | 1       | 37    |
| Ethylbenzene                             |           |  | 0.0500   | 0.04724 |           | mg/Kg   |                       | 94   | 70 - 130 | 1       | 38    |
| Toluene                                  |           |  | 0.0500   | 0.05075 |           | mg/Kg   |                       | 101  | 70 - 130 | 1       | 40    |
| Xylenes, Total                           |           |  | 0.100    | 0.09614 |           | mg/Kg   |                       | 96   | 70 - 130 | 2       | 38    |
|  | LCSD      | LCSD                                     |          |         |           |         |                       |      |          |         |       |
| Surrogate                                | %Recovery | Qualifier                                | Limits   |         |           |         |                       |      |          |         |       |
| 1,2-Dichloroethane-d4 (Surr)             | 97        |  | 70 - 130 |         |           |         |                       |      |          |         |       |
| 4-Bromofluorobenzene (Surr)              | 92        |  | 70 - 130 |         |           |         |                       |      |          |         |       |
| Dibromofluoromethane (Surr)              | 104       |  | 70 - 130 |         |           |         |                       |      |          |         |       |
| Toluene-d8 (Surr)                        | 109       |  | 70 - 130 |         |           |         |                       |      |          |         |       |
| Lab Sample ID: MB 490-5<br>Matrix: Solid |           |  |          |         | Clie      | ent San | nple ID: M<br>Prep Ty |      |          |         |       |

## Analysis Batch: 592404

|                | IVID   |           |         |          |       |   |          |                |         |
|----------------|--------|-----------|---------|----------|-------|---|----------|----------------|---------|
| Analyte        | Result | Qualifier | RL      | MDL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Benzene        | ND     |           | 0.00200 | 0.000670 | mg/Kg |   |          | 05/03/19 13:30 | 1       |
| Ethylbenzene   | ND     |           | 0.00200 | 0.000670 | mg/Kg |   |          | 05/03/19 13:30 | 1       |
| Toluene        | ND     |           | 0.00200 | 0.000740 | mg/Kg |   |          | 05/03/19 13:30 | 1       |
| Xylenes, Total | ND     |           | 0.00600 | 0.00123  | mg/Kg |   |          | 05/03/19 13:30 | 1       |
|                |        |           |         |          |       |   |          |                |         |

|                              | MB MB              |           |          |                |         |  |
|------------------------------|--------------------|-----------|----------|----------------|---------|--|
| Surrogate                    | %Recovery Qualifie | er Limits | Prepared | Analyzed       | Dil Fac |  |
| 1,2-Dichloroethane-d4 (Surr) | 127                | 70 - 130  |          | 05/03/19 13:30 | 1       |  |
| 4-Bromofluorobenzene (Surr)  | 97                 | 70 - 130  |          | 05/03/19 13:30 | 1       |  |
| Dibromofluoromethane (Surr)  | 125                | 70 - 130  |          | 05/03/19 13:30 | 1       |  |
| Toluene-d8 (Surr)            | 94                 | 70 - 130  |          | 05/03/19 13:30 | 1       |  |

#### Lab Sample ID: LCS 490-592404/3 Matrix: Solid Analysis Batch: 592404

|                | Spike  | LCS     | LCS       |       |   |      | %Rec.    |  |
|----------------|--------|---------|-----------|-------|---|------|----------|--|
| Analyte        | Added  | Result  | Qualifier | Unit  | D | %Rec | Limits   |  |
| Benzene        | 0.0500 | 0.05244 |           | mg/Kg |   | 105  | 70 - 130 |  |
| Ethylbenzene   | 0.0500 | 0.04834 |           | mg/Kg |   | 97   | 70 - 130 |  |
| Toluene        | 0.0500 | 0.04760 |           | mg/Kg |   | 95   | 70 - 130 |  |
| Xylenes, Total | 0.100  | 0.09717 |           | mg/Kg |   | 97   | 70 - 130 |  |

|                              | LCS       | LCS       |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 116       |           | 70 - 130 |
| 4-Bromofluorobenzene (Surr)  | 97        |           | 70 - 130 |
| Dibromofluoromethane (Surr)  | 110       |           | 70 - 130 |
| Toluene-d8 (Surr)            | 95        |           | 70 - 130 |

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

7

5/6/2019

Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Lab Sample ID: LCSD 490<br>Matrix: Solid  | -592404/4   |      |           |                |         |                  | Client Sa | Imple | e ID: Lal  | b Control<br>Prep Ty                       |            | _                    |
|---|-------------|------|-----------|----------------|---------|------------------|-----------|-------|------------|--|------------|----------------------|
| Analysis Batch: 592404  |             |      |           |                |         |                  |           |       |            |  |            |                      |
| Analyta   |             |      |           | Spike<br>Addod |         | LCSD             | v linit   |       | % Bee      | %Rec.<br>Limits                            | חחם        | RPE                  |
| Analyte<br>Benzene  |             |      |           | Added          | 0.05174 | Qualifie         |           |       | %Rec       | 70 - 130                                   | <b>RPD</b> | Limi<br>3            |
|   |             |      |           | 0.0500         |         |                  | mg/Kg     |       | 103        |  | -          |                      |
| Ethylbenzene<br>Toluene   |             |      |           | 0.0500         | 0.04876 |                  | mg/Kg     |       | 98<br>07   | 70 <sub>-</sub> 130<br>70 <sub>-</sub> 130 | 1<br>1     | 38<br>40             |
|   |             |      |           | 0.0500         | 0.04631 |                  | mg/Kg     |       | 97         | 70 - 130                                   | 1          | 38                   |
| Xylenes, Total  |             |      |           | 0.100          | 0.09766 |                  | mg/Kg     |       | 98         | 70 - 130                                   | 1          | 3                    |
|   | LCSD        |      |           |                |         |                  |           |       |            |  |            |                      |
| Surrogate   | %Recovery   | Qua  | alifier   | Limits         |         |                  |           |       |            |  |            |                      |
| 1,2-Dichloroethane-d4 (Surr)  | 116         |      |           | 70 - 130       |         |                  |           |       |            |  |            |                      |
| 4-Bromofluorobenzene (Surr)   | 97          |      |           | 70 - 130       |         |                  |           |       |            |  |            |                      |
| Dibromofluoromethane (Surr)   | 109         |      |           | 70 - 130       |         |                  |           |       |            |  |            |                      |
| Toluene-d8 (Surr)   | 96          |      |           | 70 - 130       |         |                  |           |       |            |  |            |                      |
| lethod: 8015B - Gasol   | line Range  | e O  | rganics   | s - (GC)       |         |                  |           |       |            |  |            |                      |
| Lab Sample ID: MB 490-59  | 91459/1-A   |      |           |                |         |                  |           | Cli   | ent San    | nple ID: M                                 | ethod      | Blan                 |
| Matrix: Solid   |             |      |           |                |         |                  |           |       |            | Prep Ty                                    |            |                      |
| Analysis Batch: 591477  |             |      |           |                |         |                  |           |       |            | Prep Ba                                    | atch: 5    | 9145                 |
|   |             |      | MB        |                |         |                  |           |       |            |  |            |                      |
| Analyte   |             |      | Qualifier |                | RL      | MDL Un           |           |       | Prepared   | Analy                                      |            | Dil Fa               |
| Gasoline Range Organics [C6 - C1  | 10]         | ND   |           | 5.             | 00      | 2.50 mg          | J/Kg      | 04/   | 30/19 09:2 | 25 04/30/19                                | 19:41      |                      |
|   |             | ΜВ   | MB        |                |         |                  |           |       |            |  |            |                      |
| Surrogate   | %Reco       | very | Qualifier | Limits         |         |                  |           |       | Prepared   | Analy                                      | zed        | Dil Fa               |
| a,a,a-Trifluorotoluene  |             | 94   |           | 50 - 15        | 2       |                  |           | 04/   | 30/19 09:2 | 25 04/30/19                                | 19:41      |                      |
| -   |             |      |           |                |         |                  |           |       |            |  |            |                      |
| Lab Sample ID: LCS 490-5  | 591459/2-A  |      |           |                |         |                  | Clie      | nt Sa | mple IC    | ): Lab Cor                                 |            |                      |
| Matrix: Solid   |             |      |           |                |         |                  |           |       |            | Prep Ty                                    | pe: Tot    | tal/N/               |
| Analysis Batch: 591477  |             |      |           |                |         |                  |           |       |            | Prep Ba                                    | atch: 5    | 9145                 |
|   |             |      |           | Spike          | LCS     | LCS              |           |       |            | %Rec.                                      |            |                      |
| Analyte   |             |      |           | Added          | Result  | Qualifie         | er Unit   | D     | %Rec       | Limits                                     |            |                      |
| Gasoline Range Organics [C6 -   |             |      |           | 500            | 473.9   |                  | mg/Kg     |       | 95         | 70 - 130                                   |            |                      |
| C10]  |             |      |           |                |         |                  |           |       |            |  |            |                      |
|   | LCS         | LCS  | 5         |                |         |                  |           |       |            |  |            |                      |
| Surrogate   | %Recovery   |      |           | Limits         |         |                  |           |       |            |  |            |                      |
| a,a,a-Trifluorotoluene  | 106         |      |           | 50 - 150       |         |                  |           |       |            |  |            |                      |
|   |             |      |           |                |         |                  |           |       |            |  |            |                      |
| -   |             |      |           |                |         |                  | Client Sa | mple  | D: Lal     | b Control                                  | Sample     | e Dup                |
| Lab Sample ID: LCSD 490   | -591459/3-A |      |           |                |         |                  |           |       |            |  |            |                      |
| Lab Sample ID: LCSD 490<br>Matrix: Solid  | -591459/3-A | •    |           |                |         |                  |           |       |            | Prep Tv                                    | pe: Tot    | tal/NA               |
| Matrix: Solid   | -591459/3-A | •    |           |                |         |                  |           |       |            | Prep Ty<br>Prep Ba                         |            |                      |
|   | -591459/3-A | L    |           | Spike          | LCSD    | LCSD             |           |       |            | Prep Ty<br>Prep Ba<br>%Rec.                |            | 91459                |
| Matrix: Solid   | -591459/3-A | L    |           | Spike<br>Added |         | LCSD<br>Qualifie |           | D     |            | Prep Ba                                    |            | 91459<br>RPE         |
| Matrix: Solid<br>Analysis Batch: 591477<br>Analyte                                  | -591459/3-A |      |           | •              |         | Qualifie         | er Unit   |       |            | Prep Ba<br>%Rec.                           | atch: 5    | 91459<br>RPC<br>Limi |
| Matrix: Solid<br>Analysis Batch: 591477   | -591459/3-A |      |           | Added          | Result  | Qualifie         |           |       | %Rec       | Prep Ba<br>%Rec.<br>Limits                 | RPD        | 91459<br>RPC<br>Limi |
| Matrix: Solid<br>Analysis Batch: 591477<br>Analyte<br>Gasoline Range Organics [C6 - |             |      |           | Added          | Result  | Qualifie         | er Unit   |       | %Rec       | Prep Ba<br>%Rec.<br>Limits                 | RPD        |                      |
| Matrix: Solid<br>Analysis Batch: 591477<br>Analyte<br>Gasoline Range Organics [C6 - | -591459/3-A | LCS  |           | Added          | Result  | Qualifie         | er Unit   |       | %Rec       | Prep Ba<br>%Rec.<br>Limits                 | RPD        | 91459<br>RPC<br>Limi |

## Client: Sport Environmental Services LLC

Project/Site: EMSU B Tank Battery (New April Release)

#### Job ID: 490-172773-1

| Lab Sample ID: MB 490-591          | 565/1-A    |                |          |        |      |        |         |      | Clie | ent Samp   | ole ID: Met             | hod   | Blanl         |
|------------------------------------|------------|----------------|----------|--------|------|--------|---------|------|------|------------|-------------------------|-------|---------------|
| Matrix: Solid                      |            |                |          |        |      |        |         |      |      |            | Prep Type               |       |               |
| Analysis Batch: 591826             |            |                |          |        |      |        |         |      |      |            | Prep Bato               | :h: 5 | 9156          |
|                                    | I          | MB MB          |          |        |      |        |         |      |      |            |                         |       |               |
| Analyte                            |            | ult Qualifier  |          |        | MDL  |        |         | D    | P    | repared    | Analyzed                | I     | Dil Fa        |
| Gasoline Range Organics [C6 - C10] | ] 2.6      | 36 J           | 5.00     |        | 2.50 | mg/K   | g       | _    | 04/3 | 0/19 11:16 | 05/01/19 13             | :32   |               |
|                                    |            | MB MB          |          |        |      |        |         |      |      |            |                         |       |               |
| Surrogate                          |            | erv Qualifier  | Limits   |        |      |        |         |      | D    | repared    | Analyza                 | J     | Dil Fa        |
| a.a.a-Trifluorotoluene             |            | $\frac{1}{90}$ |          |        |      |        |         |      |      |            | Analyzeo<br>05/01/19 13 |       | <i>DII Га</i> |
| a,a,a-Thiluorololuene              |            | 90             | 50 - 150 |        |      |        |         |      | 04/3 | 0/19 11.10 | 05/01/19 13             | .32   |               |
| Lab Sample ID: LCS 490-59          | 1565/2-4   |                |          |        |      |        | Clie    | ont  | Sar  | nnle ID.   | Lab Contr               |       | amnl          |
| Matrix: Solid                      | 1000/2-4   |                |          |        |      |        |         | Sint | Jul  |            | Prep Type               |       |               |
| Analysis Batch: 591826             |            |                |          |        |      |        |         |      |      |            | Prep Bato               |       |               |
| Analysis Datch. 591020             |            |                | Spike    | LCS    | LCS  |        |         |      |      |            | %Rec.                   |       | 3150          |
| Analyte                            |            |                | Added    | Result |      |        | Unit    |      | D    | %Rec       | Limits                  |       |               |
| Gasoline Range Organics [C6 -      |            |                | 500      | 463.4  |      |        | mg/Kg   |      |      | 93         | 70 - 130                |       |               |
| Casoline Range Organics [C6 - C10] |            |                | 500      | 405.4  |      |        | mg/rty  |      |      | 35         | 10-130                  |       |               |
|                                    | LCS        | 1.09           |          |        |      |        |         |      |      |            |                         |       |               |
| Surrogate                          | %Recovery  |                | Limits   |        |      |        |         |      |      |            |                         |       |               |
| a.a.a-Trifluorotoluene             | 101        | auannei        | 50 - 150 |        |      |        |         |      |      |            |                         |       |               |
| a,a,a-minuoroloiuene               | 101        |                | 50 - 750 |        |      |        |         |      |      |            |                         |       |               |
| Lab Sample ID: LCSD 490-5          | 591565/3-A |                |          |        |      | С      | lient S | am   | nple | ID: Lab    | Control Sa              | mpl   | e Du          |
| Matrix: Solid                      |            |                |          |        |      |        |         |      |      |            | Prep Type               |       |               |
| Analysis Batch: 591826             |            |                |          |        |      |        |         |      |      |            | Prep Bato               |       |               |
|                                    |            |                | Spike    | LCSD   | LCS  | D      |         |      |      |            | %Rec.                   |       | RP            |
| Analyte                            |            |                | Added    | Result |      |        | Unit    |      | D    | %Rec       |                         | RPD   | Lim           |
| Gasoline Range Organics [C6 -      |            |                | 500      | 458.7  |      |        | mg/Kg   |      |      | 92         | 70 - 130                | 1     | 2             |
| C10]                               |            |                |          |        |      |        | 0 0     |      |      |            |                         |       |               |
| -                                  | LCSD       |                |          |        |      |        |         |      |      |            |                         |       |               |
| Surrogate                          | %Recovery  |                | Limits   |        |      |        |         |      |      |            |                         |       |               |
| a,a,a-Trifluorotoluene             | 102        | Quaimer        | 50 - 150 |        |      |        |         |      |      |            |                         |       |               |
|                                    | 702        |                | 00 - 100 |        |      |        |         |      |      |            |                         |       |               |
| Lab Sample ID: 490-172992          | -A-1-A MS  |                |          |        |      |        |         |      | CI   | ient San   | nple ID: Ma             | trix  | Spik          |
| Matrix: Solid                      |            |                |          |        |      |        |         |      |      |            | ·<br>Prep Type          | : To  | tal/N         |
| Analysis Batch: 591826             |            |                |          |        |      |        |         |      |      |            | Prep Bato               |       |               |
|                                    | Sample 3   | Sample         | Spike    | MS     | MS   |        |         |      |      |            | %Rec.                   |       |               |
| Analyte                            | Result (   | Qualifier      | Added    | Result | Qua  | lifier | Unit    |      | D    | %Rec       | Limits                  |       |               |
| Gasoline Range Organics [C6 -      | ND         |                | 433      | 372.1  |      |        | mg/Kg   |      |      | 86         | 56 - 130                |       |               |
| C10]                               |            |                |          |        |      |        | -       |      |      |            |                         |       |               |
|                                    | MS         | MS             |          |        |      |        |         |      |      |            |                         |       |               |
| Surrogate                          | %Recovery  |                | Limits   |        |      |        |         |      |      |            |                         |       |               |
| a.a.a-Trifluorotoluene             | <u>99</u>  |                | 50 - 150 |        |      |        |         |      |      |            |                         |       |               |
| -                                  | 33         |                | 55 - 766 |        |      |        |         |      |      |            |                         |       |               |
| Lab Sample ID: 490-172992          | -A-1-A MSC | )              |          |        |      |        | Client  | Sa   | amp  | le ID: Ma  | atrix Spike             | Dup   | licat         |
| Matrix: Solid                      |            |                |          |        |      |        |         |      |      |            | Prep Type               |       |               |
| Analysis Batch: 591826             |            |                |          |        |      |        |         |      |      |            | Prep Bato               |       |               |
|                                    | Sample 3   | Sample         | Spike    | MSD    | MSE  | )      |         |      |      |            | %Rec.                   |       | RP            |
| Analyte                            | Result     |                | Added    | Result | Qua  | lifier | Unit    |      | D    | %Rec       | Limits                  | RPD   | Lim           |
| Gasoline Range Organics [C6 -      | ND         |                | 433      | 375.8  |      |        | mg/Kg   |      |      | 87         | 56 - 130                | 1     | 2             |
| C10]                               |            |                | -        |        |      |        | 5 5     |      |      | -          |                         |       | _             |
| -                                  | MSD        | MSD            |          |        |      |        |         |      |      |            |                         |       |               |
| Surrogata                          |            |                | Limite   |        |      |        |         |      |      |            |                         |       |               |
| Surrogate                          | %Recovery  | wuanner        | Limits   |        |      |        |         |      |      |            |                         |       |               |

**QC Sample Results** 

99 50 - 150

a,a,a-Trifluorotoluene

Eurofins TestAmerica, Nashville

Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release) Job ID: 490-172773-1

| Lab Sample ID: MB 490-59                | 2232/1-A   |                     |          |         |        |      |         |        |          | Clie  | nt Samp              | ole ID: Me           |        |         |
|---|------------|---------------------|----------|---------|--------|------|---------|--------|----------|-------|----------------------|----------------------|--------|---------|
| Matrix: Solid                           |            |                     |          |         |        |      |         |        |          |       |                      | Prep Typ             |        |         |
| Analysis Batch: 592413                  |            |                     |          |         |        |      |         |        |          |       |                      | Prep Ba              | tch: 5 | 92232   |
| Apolyto                                 | Ba         | MB MB<br>sult Quali | fior     | RL      |        | мы   | Unit    |        | n        | р.    | oporod               | Analyz               | ~d     |         |
| Analyte Diesel Range Organics [C10-C28] | Ke         |                     |          | 5.00    |        |      | mg/Kg   |        | <b>D</b> |       | repared              | Analyz<br>05/03/19 1 |        | Dil Fa  |
| MRO (C28-C35)                           |            | ND                  |          | 5.00    |        |      | mg/Kg   |        |          |       |                      | 05/03/19 1           |        |         |
|   |            |                     |          | 0.00    |        | 2.00 | ing/itg | ,      |          | 00/01 | 2/10 12:01           | 00/00/10             | 10.00  |         |
| -                                       |            | MB MB               |          |         |        |      |         |        |          |       |                      |                      |        |         |
| Surrogate                               | %Reco      | very Quali          |          | mits    |        |      |         |        |          |       | repared              | Analyz               |        | Dil Fa  |
| o-Terphenyl (Surr)                      |            | 98                  | 50       | ) - 150 |        |      |         |        |          | 05/02 | 2/19 12:51           | 05/03/19             | 15:08  |         |
| Lab Sample ID: LCS 490-5                | 92232/2-4  |                     |          |         |        |      |         | Clie   | ent      | San   | nnle ID <sup>.</sup> | Lab Con              | trol S | ample   |
| Matrix: Solid                           |            |                     |          |         |        |      |         | •      |          | Juli  |                      | Prep Typ             |        |         |
| Analysis Batch: 592413                  |            |                     |          |         |        |      |         |        |          |       |                      | Prep Ba              |        |         |
|   |            |                     | Spike    | •       | LCS    | LCS  | 5       |        |          |       |                      | %Rec.                |        |         |
| Analyte                                 |            |                     | Added    | I       | Result | Qua  | lifier  | Unit   |          | D     | %Rec                 | Limits               |        |         |
| Diesel Range Organics                   |            |                     | 40.0     | )       | 39.76  |      |         | mg/Kg  |          |       | 99                   | 54 - 130             |        |         |
| [C10-C28]                               |            |                     |          |         |        |      |         |        |          |       |                      |                      |        |         |
|   | LCS        | LCS                 |          |         |        |      |         |        |          |       |                      |                      |        |         |
| Surrogate                               | %Recovery  | Qualifier           | Limits   |         |        |      |         |        |          |       |                      |                      |        |         |
| o-Terphenyl (Surr)                      | 108        |                     | 50 - 150 | 2       |        |      |         |        |          |       |                      |                      |        |         |
| Lab Carrie ID: 400 47000                |            |                     |          |         |        |      |         |        |          |       |                      |                      |        | 0       |
| Lab Sample ID: 490-17289                | U-A-3-B MS |                     |          |         |        |      |         |        |          | CI    |                      | nple ID: N           |        |         |
| Matrix: Solid                           |            |                     |          |         |        |      |         |        |          |       |                      | Prep Typ             |        |         |
| Analysis Batch: 592413                  | Sample     | Sample              | Spike    |         | MS     | MS   |         |        |          |       |                      | Prep Ba<br>%Rec.     | ich: 5 | 92234   |
| Analyte                                 |            | Qualifier           | Added    |         | Result |      | lifier  | Unit   |          | D     | %Rec                 | Limits               |        |         |
| Diesel Range Organics                   | 72.5       |                     | 39.7     |         | 127.9  |      |         | mg/Kg  |          |       | 139                  | 10 - 142             |        |         |
| [C10-C28]                               |            |                     |          |         |        |      |         | 0 0    |          |       |                      |                      |        |         |
|   | MS         | MS                  |          |         |        |      |         |        |          |       |                      |                      |        |         |
| Surrogate                               | %Recovery  |                     | Limits   |         |        |      |         |        |          |       |                      |                      |        |         |
| o-Terphenyl (Surr)                      | 96         |                     | 50 - 150 | 2       |        |      |         |        |          |       |                      |                      |        |         |
|   |            |                     |          |         |        |      |         |        |          |       |                      |                      |        |         |
| Lab Sample ID: 490-17289                | 0-A-3-C MS | D                   |          |         |        |      |         | Client | Sa       | Imp   | le ID: Ma            | atrix Spik           | e Dup  | olicate |
| Matrix: Solid                           |            |                     |          |         |        |      |         |        |          |       |                      | Prep Typ             |        |         |
| Analysis Batch: 592413                  |            |                     |          |         |        |      |         |        |          |       |                      | Prep Ba              | tch: 5 |         |
|   | Sample     |                     | Spike    |         | MSD    |      |         |        |          | _     | a/ <del>-</del>      | %Rec.                |        | RPI     |
| Analyte                                 |            | Qualifier           | Added    |         | Result |      |         | Unit   |          |       | %Rec                 | Limits               | RPD    | Limi    |
| Diesel Range Organics<br>[C10-C28]      | 72.5       | F1                  | 39.0     | J       | 149.4  | F1   |         | mg/Kg  |          |       | 197                  | 10 - 142             | 16     | 4       |
|   | MSD        | MSD                 |          |         |        |      |         |        |          |       |                      |                      |        |         |
| Surrogate                               | %Recovery  | Qualifier           | Limits   |         |        |      |         |        |          |       |                      |                      |        |         |
| o-Terphenyl (Surr)                      | 101        |                     | 50 - 150 | 2       |        |      |         |        |          |       |                      |                      |        |         |
| lathadi 200 0 Aniana                    | lon Chri   | motor               | rophy    |         |        |      |         |        |          |       |                      |                      |        |         |
| lethod: 300.0 - Anions                  | i ion Chra | matod               | rapnv    |         |        |      |         |        |          |       |                      |                      |        |         |

| Analysis Batch: 591766 |        |           |      |      |       |   |          |                |         |
|------------------------|--------|-----------|------|------|-------|---|----------|----------------|---------|
|                        | MB     | MB        |      |      |       |   |          |                |         |
| Analyte                | Result | Qualifier | RL   | MDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Chloride               | ND     |           | 10.1 | 7.07 | mg/Kg |   |          | 04/30/19 19:30 | 1       |

Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release) Job ID: 490-172773-1

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

| Lab Sample ID: LCS 490-59 | 91634/2-A  |           |                    |             |           | Clie      | ent Sai | mple ID                | : Lab Coi |         |        |  |
|---------------------------|------------|-----------|--------------------|-------------|-----------|-----------|---------|------------------------|-----------|---------|--------|--|
| Matrix: Solid             |            |           |                    |             |           |           |         |                        | Prep I    | ype: So | Juble  |  |
| Analysis Batch: 591766    |            |           | <b>•</b> "         |             |           |           |         |                        | ~ -       |         |        |  |
|                           |            |           | Spike              | _           | LCS       |           | _       |                        | %Rec.     |         |        |  |
| Analyte                   |            |           | Added              | Result      | Qualifier | Unit      | D       | %Rec                   | Limits    |         |        |  |
| Chloride                  |            |           | 100                | 105.7       |           | mg/Kg     |         | 105                    | 90 - 110  |         |        |  |
| _<br>                     |            |           |                    |             |           |           |         |                        |           |         | _      |  |
| Lab Sample ID: LCSD 490-  | 591634/3-A |           |                    |             | (         | Client Sa | ample   | ID: Lat                | o Control |         |        |  |
| Matrix: Solid             |            |           |                    |             |           |           |         |                        | Prep T    | ype: So | oluble |  |
| Analysis Batch: 591766    |            |           |                    |             |           |           |         |                        |           |         |        |  |
|                           |            |           | Spike              | LCSD        | LCSD      |           |         |                        | %Rec.     |         | RPD    |  |
| Analyte                   |            |           | Added              | Result      | Qualifier | Unit      | D       | %Rec                   | Limits    | RPD     | Limit  |  |
| Chloride                  |            |           | 101                | 99.21       |           | mg/Kg     |         | 99                     | 90 - 110  | 6       | 20     |  |
|                           |            |           |                    |             |           |           |         |                        |           |         |        |  |
| Lab Sample ID: 490-172773 | 3-1 MS     |           | <b>Client Samp</b> | ole ID: EMS | U B Tan   | k Batter  | 'y New  | <mark>/ April F</mark> | Release - | HDP1 -  | · @ 6" |  |
|                           |            |           |                    |             |           |           |         |                        |           |         | bgs    |  |
| Matrix: Solid             |            |           |                    |             |           |           |         |                        | Prep T    | ype: So | oluble |  |
| Analysis Batch: 591766    |            |           |                    |             |           |           |         |                        |           |         |        |  |
| -                         | Sample     | Sample    | Spike              | MS          | MS        |           |         |                        | %Rec.     |         |        |  |
| Analyte                   | Result     | Qualifier | Added              | Result      | Qualifier | Unit      | D       | %Rec                   | Limits    |         |        |  |
| Chloride                  | ND         |           | 101                | 101.9       |           | mg/Kg     |         | 100                    | 80 - 120  |         |        |  |
|                           |            |           |                    |             |           |           |         |                        |           |         |        |  |

Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

## **GC/MS VOA**

#### Prep Batch: 591460

| Lab Sample ID    | Client Sample ID                              | Prep Туре | Matrix | Method | Prep Batch |
|------------------|---|-----------|--------|--------|------------|
| 490-172773-4     | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |
| 490-172773-8     | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |
| 490-172773-9     | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |
| 490-172773-9 MS  | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |
| 490-172773-9 MSD | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |

#### Prep Batch: 591461

| Lab Sample ID    | Client Sample ID                              | Prep Type | Matrix | Method | Prep Batch |
|------------------|---|-----------|--------|--------|------------|
| 490-172773-1     | EMSU B Tank Battery New April Release - HDP1  | Total/NA  | Solid  | 5030B  |            |
| 490-172773-2     | EMSU B Tank Battery New April Release - HDP2  | Total/NA  | Solid  | 5030B  |            |
| 490-172773-3     | EMSU B Tank Battery New April Release - HDP3  | Total/NA  | Solid  | 5030B  |            |
| 490-172773-4     | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |
| 490-172773-5     | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |
| 490-172773-6     | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |
| 490-172773-7     | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |
| 490-172773-8     | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |
| 490-172773-9     | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |
| 490-172773-1 MS  | EMSU B Tank Battery New April Release - HDP1  | Total/NA  | Solid  | 5030B  |            |
| 490-172773-1 MSD | EMSU B Tank Battery New April Release - HDP1  | Total/NA  | Solid  | 5030B  |            |

#### Prep Batch: 591567

| Lab Sample ID | Client Sample ID                              | Prep Type | Matrix | Method | Prep Batch |
|---------------|---|-----------|--------|--------|------------|
| 490-172773-10 | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |

#### Prep Batch: 591569

| Lab Sample ID | Client Sample ID                              | Prep Туре | Matrix | Method | Prep Batch |
|---------------|---|-----------|--------|--------|------------|
| 490-172773-10 | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |
| 490-172773-11 | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |

#### Analysis Batch: 592131

| Lab Sample ID     | Client Sample ID                              | Prep Type | Matrix | Method | Prep Batch |
|-------------------|---|-----------|--------|--------|------------|
| 490-172773-4      | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8260B  | 591460     |
| 490-172773-8      | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8260B  | 591460     |
| 490-172773-9      | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8260B  | 591460     |
| 490-172773-10     | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8260B  | 591567     |
| MB 490-592131/7   | Method Blank                                  | Total/NA  | Solid  | 8260B  |            |
| LCS 490-592131/3  | Lab Control Sample                            | Total/NA  | Solid  | 8260B  |            |
| LCSD 490-592131/4 | Lab Control Sample Dup                        | Total/NA  | Solid  | 8260B  |            |
| 490-172773-9 MS   | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8260B  | 591460     |
| 490-172773-9 MSD  | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8260B  | 591460     |

#### Analysis Batch: 592141

| Lab Sample ID   | Client Sample ID                              | Prep Type | Matrix | Method | Prep Batch |
|-----------------|---|-----------|--------|--------|------------|
| 490-172773-1    | EMSU B Tank Battery New April Release - HDP1  | Total/NA  | Solid  | 8260B  | 591461     |
| 490-172773-2    | EMSU B Tank Battery New April Release - HDP2  | Total/NA  | Solid  | 8260B  | 591461     |
| 490-172773-3    | EMSU B Tank Battery New April Release - HDP3  | Total/NA  | Solid  | 8260B  | 591461     |
| 490-172773-4    | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8260B  | 591461     |
| 490-172773-6    | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8260B  | 591461     |
| 490-172773-9    | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8260B  | 591461     |
| 490-172773-11   | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8260B  | 591569     |
| MB 490-592141/7 | Method Blank                                  | Total/NA  | Solid  | 8260B  |            |

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#### Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

Lab Control Sample Dup

#### **GC/MS VOA (Continued)**

#### Analysis Batch: 592141 (Continued)

| Lab Sample ID       | Client Sample ID                              | Prep Type | Matrix | Method | Prep Batch |
|---------------------|---|-----------|--------|--------|------------|
| LCS 490-592141/3    | Lab Control Sample                            | Total/NA  | Solid  | 8260B  |            |
| LCSD 490-592141/4   | Lab Control Sample Dup                        | Total/NA  | Solid  | 8260B  |            |
| 490-172773-1 MS     | EMSU B Tank Battery New April Release - HDP1  | Total/NA  | Solid  | 8260B  | 591461     |
| 490-172773-1 MSD    | EMSU B Tank Battery New April Release - HDP1  | Total/NA  | Solid  | 8260B  | 591461     |
| Analysis Batch: 592 | 400   |           |        |        |            |
| Lab Sample ID       | Client Sample ID                              | Prep Type | Matrix | Method | Prep Batch |
| 490-172773-5        | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8260B  | 591461     |
| 490-172773-8        | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8260B  | 591461     |
| MB 490-592400/6     | Method Blank                                  | Total/NA  | Solid  | 8260B  |            |
| LCS 490-592400/3    | Lab Control Sample                            | Total/NA  | Solid  | 8260B  |            |
| LCSD 490-592400/4   | Lab Control Sample Dup                        | Total/NA  | Solid  | 8260B  |            |
| Analysis Batch: 592 | 404   |           |        |        |            |
| Lab Sample ID       | Client Sample ID                              | Prep Type | Matrix | Method | Prep Batch |
| 490-172773-7        | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8260B  | 591461     |
| 490-172773-10       | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8260B  | 591569     |
| MB 490-592404/6     | Method Blank                                  | Total/NA  | Solid  | 8260B  |            |
| LCS 490-592404/3    | Lab Control Sample                            | Total/NA  | Solid  | 8260B  |            |

Total/NA

Solid

8260B

#### **GC VOA**

#### Prep Batch: 591459

LCSD 490-592404/4

| Lab Sample ID       | Client Sample ID                              | Prep Type | Matrix | Method | Prep Batch |
|---------------------|---|-----------|--------|--------|------------|
| 490-172773-1        | EMSU B Tank Battery New April Release - HDP1  | Total/NA  | Solid  | 5030B  |            |
| 490-172773-2        | EMSU B Tank Battery New April Release - HDP2  | Total/NA  | Solid  | 5030B  |            |
| 490-172773-3        | EMSU B Tank Battery New April Release - HDP3  | Total/NA  | Solid  | 5030B  |            |
| 490-172773-4        | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |
| 490-172773-5        | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |
| 490-172773-6        | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |
| 490-172773-7        | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |
| 490-172773-8        | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |
| 490-172773-9        | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |
| MB 490-591459/1-A   | Method Blank                                  | Total/NA  | Solid  | 5030B  |            |
| LCS 490-591459/2-A  | Lab Control Sample                            | Total/NA  | Solid  | 5030B  |            |
| LCSD 490-591459/3-A | Lab Control Sample Dup                        | Total/NA  | Solid  | 5030B  |            |

#### Analysis Batch: 591477

| Lab Sample ID      | Client Sample ID                              | Prep Type | Matrix | Method | Prep Batch |
|--------------------|---|-----------|--------|--------|------------|
| 490-172773-1       | EMSU B Tank Battery New April Release - HDP1  | Total/NA  | Solid  | 8015B  | 591459     |
| 490-172773-2       | EMSU B Tank Battery New April Release - HDP2  | Total/NA  | Solid  | 8015B  | 591459     |
| 490-172773-3       | EMSU B Tank Battery New April Release - HDP3  | Total/NA  | Solid  | 8015B  | 591459     |
| 490-172773-4       | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8015B  | 591459     |
| 490-172773-5       | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8015B  | 591459     |
| 490-172773-6       | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8015B  | 591459     |
| 490-172773-7       | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8015B  | 591459     |
| 490-172773-8       | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8015B  | 591459     |
| 490-172773-9       | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8015B  | 591459     |
| MB 490-591459/1-A  | Method Blank                                  | Total/NA  | Solid  | 8015B  | 591459     |
| LCS 490-591459/2-A | Lab Control Sample                            | Total/NA  | Solid  | 8015B  | 591459     |

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#### Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

## GC VOA (Continued)

#### Analysis Batch: 591477 (Continued)

| Lab Sample ID        | Client Sample ID                              | Prep Type | Matrix | Method | Prep Batch |
|----------------------|---|-----------|--------|--------|------------|
| LCSD 490-591459/3-A  | Lab Control Sample Dup                        | Total/NA  | Solid  | 8015B  | 591459     |
| Prep Batch: 591565   |   |           |        |        |            |
| Lab Sample ID        | Client Sample ID                              | Prep Type | Matrix | Method | Prep Batch |
| 490-172773-10        | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |
| 490-172773-11        | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 5030B  |            |
| MB 490-591565/1-A    | Method Blank                                  | Total/NA  | Solid  | 5030B  |            |
| LCS 490-591565/2-A   | Lab Control Sample                            | Total/NA  | Solid  | 5030B  |            |
| LCSD 490-591565/3-A  | Lab Control Sample Dup                        | Total/NA  | Solid  | 5030B  |            |
| 490-172992-A-1-A MS  | Matrix Spike                                  | Total/NA  | Solid  | 5030B  |            |
| 490-172992-A-1-A MSD | Matrix Spike Duplicate                        | Total/NA  | Solid  | 5030B  |            |

#### Analysis Batch: 591826

| Lab Sample ID        | Client Sample ID                              | Prep Type | Matrix | Method | Prep Batch |
|----------------------|---|-----------|--------|--------|------------|
| 490-172773-10        | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8015B  | 591565     |
| 490-172773-11        | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8015B  | 591565     |
| MB 490-591565/1-A    | Method Blank                                  | Total/NA  | Solid  | 8015B  | 591565     |
| LCS 490-591565/2-A   | Lab Control Sample                            | Total/NA  | Solid  | 8015B  | 591565     |
| LCSD 490-591565/3-A  | Lab Control Sample Dup                        | Total/NA  | Solid  | 8015B  | 591565     |
| 490-172992-A-1-A MS  | Matrix Spike                                  | Total/NA  | Solid  | 8015B  | 591565     |
| 490-172992-A-1-A MSD | Matrix Spike Duplicate                        | Total/NA  | Solid  | 8015B  | 591565     |

## GC Semi VOA

#### Prep Batch: 592232

| Lab Sample ID        | Client Sample ID                              | Prep Type | Matrix | Method | Prep Batch |
|----------------------|---|-----------|--------|--------|------------|
| 490-172773-1         | EMSU B Tank Battery New April Release - HDP1  | Total/NA  | Solid  | 3550C  |            |
| 490-172773-2         | EMSU B Tank Battery New April Release - HDP2  | Total/NA  | Solid  | 3550C  |            |
| 490-172773-3         | EMSU B Tank Battery New April Release - HDP3  | Total/NA  | Solid  | 3550C  |            |
| 490-172773-4         | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 3550C  |            |
| 490-172773-5         | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 3550C  |            |
| 490-172773-6         | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 3550C  |            |
| 490-172773-7         | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 3550C  |            |
| 490-172773-8         | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 3550C  |            |
| 490-172773-9         | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 3550C  |            |
| 490-172773-10        | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 3550C  |            |
| 490-172773-11        | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 3550C  |            |
| MB 490-592232/1-A    | Method Blank                                  | Total/NA  | Solid  | 3550C  |            |
| LCS 490-592232/2-A   | Lab Control Sample                            | Total/NA  | Solid  | 3550C  |            |
| 490-172890-A-3-B MS  | Matrix Spike                                  | Total/NA  | Solid  | 3550C  |            |
| 490-172890-A-3-C MSD | Matrix Spike Duplicate                        | Total/NA  | Solid  | 3550C  |            |

#### Analysis Batch: 592413

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| MB 490-592232/1-A    | Method Blank           | Total/NA  | Solid  | 8015B  | 592232     |
| LCS 490-592232/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B  | 592232     |
| 490-172890-A-3-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015B  | 592232     |
| 490-172890-A-3-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B  | 592232     |

Job ID: 490-172773-1

Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

## GC Semi VOA

#### Analysis Batch: 592707

| Lab Sample ID | Client Sample ID                              | Prep Type | Matrix | Method | Prep Batch |
|---------------|---|-----------|--------|--------|------------|
| 490-172773-1  | EMSU B Tank Battery New April Release - HDP1  | Total/NA  | Solid  | 8015B  | 592232     |
| 490-172773-2  | EMSU B Tank Battery New April Release - HDP2  | Total/NA  | Solid  | 8015B  | 592232     |
| 490-172773-3  | EMSU B Tank Battery New April Release - HDP3  | Total/NA  | Solid  | 8015B  | 592232     |
| 490-172773-4  | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8015B  | 592232     |
| 490-172773-5  | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8015B  | 592232     |
| 490-172773-6  | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8015B  | 592232     |
| 490-172773-7  | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8015B  | 592232     |
| 490-172773-8  | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8015B  | 592232     |
| 490-172773-8  | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8015B  | 592232     |
| 490-172773-9  | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8015B  | 592232     |
| 490-172773-10 | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8015B  | 592232     |
| 490-172773-10 | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8015B  | 592232     |
| 490-172773-11 | EMSU B Tank Battery New April Release - SB1 - | Total/NA  | Solid  | 8015B  | 592232     |

#### HPLC/IC

#### Leach Batch: 591634

| Lab Sample ID       | Client Sample ID                              | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|---|-----------|--------|----------|------------|
| 490-172773-1        | EMSU B Tank Battery New April Release - HDP1  | Soluble   | Solid  | DI Leach |            |
| 490-172773-2        | EMSU B Tank Battery New April Release - HDP2  | Soluble   | Solid  | DI Leach |            |
| 490-172773-3        | EMSU B Tank Battery New April Release - HDP3  | Soluble   | Solid  | DI Leach |            |
| 490-172773-4        | EMSU B Tank Battery New April Release - SB1 - | Soluble   | Solid  | DI Leach |            |
| 490-172773-5        | EMSU B Tank Battery New April Release - SB1 - | Soluble   | Solid  | DI Leach |            |
| 490-172773-6        | EMSU B Tank Battery New April Release - SB1 - | Soluble   | Solid  | DI Leach |            |
| 490-172773-7        | EMSU B Tank Battery New April Release - SB1 - | Soluble   | Solid  | DI Leach |            |
| 490-172773-8        | EMSU B Tank Battery New April Release - SB1 - | Soluble   | Solid  | DI Leach |            |
| 490-172773-9        | EMSU B Tank Battery New April Release - SB1 - | Soluble   | Solid  | DI Leach |            |
| 490-172773-10       | EMSU B Tank Battery New April Release - SB1 - | Soluble   | Solid  | DI Leach |            |
| 490-172773-11       | EMSU B Tank Battery New April Release - SB1 - | Soluble   | Solid  | DI Leach |            |
| MB 490-591634/1-A   | Method Blank                                  | Soluble   | Solid  | DI Leach |            |
| LCS 490-591634/2-A  | Lab Control Sample                            | Soluble   | Solid  | DI Leach |            |
| LCSD 490-591634/3-A | Lab Control Sample Dup                        | Soluble   | Solid  | DI Leach |            |
| 490-172773-1 MS     | EMSU B Tank Battery New April Release - HDP1  | Soluble   | Solid  | DI Leach |            |

#### Analysis Batch: 591766

| Lab Sample ID       | Client Sample ID                              | Prep Type | Matrix | Method | Prep Batch |
|---------------------|---|-----------|--------|--------|------------|
| 490-172773-1        | EMSU B Tank Battery New April Release - HDP1  | Soluble   | Solid  | 300.0  | 591634     |
| 490-172773-2        | EMSU B Tank Battery New April Release - HDP2  | Soluble   | Solid  | 300.0  | 591634     |
| 490-172773-3        | EMSU B Tank Battery New April Release - HDP3  | Soluble   | Solid  | 300.0  | 591634     |
| 490-172773-6        | EMSU B Tank Battery New April Release - SB1 - | Soluble   | Solid  | 300.0  | 591634     |
| 490-172773-7        | EMSU B Tank Battery New April Release - SB1 - | Soluble   | Solid  | 300.0  | 591634     |
| 490-172773-8        | EMSU B Tank Battery New April Release - SB1 - | Soluble   | Solid  | 300.0  | 591634     |
| 490-172773-9        | EMSU B Tank Battery New April Release - SB1 - | Soluble   | Solid  | 300.0  | 591634     |
| 490-172773-10       | EMSU B Tank Battery New April Release - SB1 - | Soluble   | Solid  | 300.0  | 591634     |
| 490-172773-11       | EMSU B Tank Battery New April Release - SB1 - | Soluble   | Solid  | 300.0  | 591634     |
| MB 490-591634/1-A   | Method Blank                                  | Soluble   | Solid  | 300.0  | 591634     |
| LCS 490-591634/2-A  | Lab Control Sample                            | Soluble   | Solid  | 300.0  | 591634     |
| LCSD 490-591634/3-A | Lab Control Sample Dup                        | Soluble   | Solid  | 300.0  | 591634     |
| 490-172773-1 MS     | EMSU B Tank Battery New April Release - HDP1  | Soluble   | Solid  | 300.0  | 591634     |

Job ID: 490-172773-1

Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release) Job ID: 490-172773-1

5

## HPLC/IC

#### Analysis Batch: 592012

| Lab Sample ID | Client Sample ID                              | Prep Type | Matrix | Method | Prep Batch |
|---------------|---|-----------|--------|--------|------------|
| 490-172773-4  | EMSU B Tank Battery New April Release - SB1 - | Soluble   | Solid  | 300.0  | 591634     |
| 490-172773-5  | EMSU B Tank Battery New April Release - SB1 - | Soluble   | Solid  | 300.0  | 591634     |

5/6/2019

## Lab Chronicle

Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

#### Client Sample ID: EMSU B Tank Battery New April Release -HDP1 - @ 6" bgs Date Collected: 04/23/19 11:05 Date Received: 04/26/19 09:25

|           | Batch    | Batch    |     | Dil    | Initial  | Final  | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|--------|----------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method   | Run | Factor | Amount   | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5030B    |     |        | 5.30 g   | 5.0 mL | 591461 | 04/30/19 09:44 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8260B    |     | 1      | 5 g      | 5 mL   | 592141 | 05/02/19 19:06 | P1B     | TAL NSH |
| Total/NA  | Prep     | 5030B    |     |        | 5.29 g   | 5.0 mL | 591459 | 04/30/19 09:44 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 1      | 0.1 mL   | 5 mL   | 591477 | 05/01/19 03:00 | AK1     | TAL NSH |
| Total/NA  | Prep     | 3550C    |     |        | 15.21 g  | 1 mL   | 592232 | 05/02/19 19:07 | AMD     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 1      |          |        | 592707 | 05/05/19 11:30 | GMH     | TAL NSH |
| Soluble   | Leach    | DI Leach |     |        | 2.9964 g | 30 mL  | 591634 | 04/30/19 14:33 | S00     | TAL NSH |
| Soluble   | Analysis | 300.0    |     | 1      |          |        | 591766 | 04/30/19 20:05 | T1C     | TAL NSH |

#### Client Sample ID: EMSU B Tank Battery New April Release -HDP2 - @ 6" bgs

Date Collected: 04/23/19 11:10 Date Received: 04/26/19 09:25

|           | Batch    | Batch    |     | Dil    | Initial  | Final  | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|--------|----------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method   | Run | Factor | Amount   | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5030B    |     |        | 5.30 g   | 5.0 mL | 591461 | 04/30/19 09:44 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8260B    |     | 1      | 5 g      | 5 mL   | 592141 | 05/02/19 19:34 | P1B     | TAL NSH |
| Total/NA  | Prep     | 5030B    |     |        | 5.36 g   | 5.0 mL | 591459 | 04/30/19 09:44 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 1      | 0.1 mL   | 5 mL   | 591477 | 05/01/19 03:34 | AK1     | TAL NSH |
| Total/NA  | Prep     | 3550C    |     |        | 15.49 g  | 1 mL   | 592232 | 05/02/19 19:07 | AMD     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 50     |          |        | 592707 | 05/05/19 11:48 | GMH     | TAL NSH |
| Soluble   | Leach    | DI Leach |     |        | 3.0037 g | 30 mL  | 591634 | 04/30/19 14:33 | SOO     | TAL NSH |
| Soluble   | Analysis | 300.0    |     | 1      |          |        | 591766 | 04/30/19 20:28 | T1C     | TAL NSH |

#### Client Sample ID: EMSU B Tank Battery New April Release -HDP3 - @ 3" bgs Date Collected: 04/23/19 11:15

## Date Received: 04/26/19 09:25

|           | Batch    | Batch    |     | Dil    | Initial  | Final  | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|--------|----------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method   | Run | Factor | Amount   | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5030B    |     |        | 5.03 g   | 5.0 mL | 591461 | 04/30/19 09:44 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8260B    |     | 1      | 5 g      | 5 mL   | 592141 | 05/02/19 20:03 | P1B     | TAL NSH |
| Total/NA  | Prep     | 5030B    |     |        | 5.17 g   | 5.0 mL | 591459 | 04/30/19 09:44 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 1      | 0.1 mL   | 5 mL   | 591477 | 05/01/19 04:08 | AK1     | TAL NSH |
| Total/NA  | Prep     | 3550C    |     |        | 25.21 g  | 1 mL   | 592232 | 05/02/19 19:07 | AMD     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 1      |          |        | 592707 | 05/05/19 12:05 | GMH     | TAL NSH |
| Soluble   | Leach    | DI Leach |     |        | 3.0058 g | 30 mL  | 591634 | 04/30/19 14:33 | S00     | TAL NSH |
| Soluble   | Analysis | 300.0    |     | 1      |          |        | 591766 | 04/30/19 20:40 | T1C     | TAL NSH |

Job ID: 490-172773-1

Lab Sample ID: 490-172773-1

Lab Sample ID: 490-172773-2

Lab Sample ID: 490-172773-3

Matrix: Solid



Matrix: Solid

Matrix: Solid

## Lab Sample ID: 490-172773-4

5

Matrix: Solid

Lab Sample ID: 490-172773-5

| Project/Site: EMSU B Tank Battery (New April Release) |  |
|---|--|
|   |  |

#### Client Sample ID: EMSU B Tank Battery New April Release -SB1 - @ 0-1' bgs Date Collected: 04/23/19 11:17 Date Received: 04/26/19 09:25

|           | Batch    | Batch    |     | Dil    | Initial  | Final  | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|--------|----------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method   | Run | Factor | Amount   | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5030B    |     |        | 5.82 g   | 5.0 mL | 591460 | 04/30/19 09:44 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8260B    |     | 1      | 0.1 mL   | 5 mL   | 592131 | 05/02/19 16:15 | P1B     | TAL NSH |
| Total/NA  | Prep     | 5030B    |     |        | 5.19 g   | 5.0 mL | 591461 | 04/30/19 09:44 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8260B    |     | 1      | 5 g      | 5 mL   | 592141 | 05/02/19 21:29 | P1B     | TAL NSH |
| Total/NA  | Prep     | 5030B    |     |        | 5.75 g   | 5.0 mL | 591459 | 04/30/19 09:44 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 1      | 0.1 mL   | 5 mL   | 591477 | 05/01/19 05:49 | AK1     | TAL NSH |
| Total/NA  | Prep     | 3550C    |     |        | 25.16 g  | 1 mL   | 592232 | 05/02/19 19:07 | AMD     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 1      |          |        | 592707 | 05/05/19 12:22 | GMH     | TAL NSH |
| Soluble   | Leach    | DI Leach |     |        | 3.0106 g | 30 mL  | 591634 | 04/30/19 14:33 | S00     | TAL NSH |
| Soluble   | Analysis | 300.0    |     | 5      |          |        | 592012 | 05/02/19 00:58 | SOO     | TAL NSH |

#### Client Sample ID: EMSU B Tank Battery New April Release -SB1 - @ 2' bgs Date Collected: 04/23/19 11:19 Date Received: 04/26/19 09:25

|           | Batch    | Batch    |     | Dil    | Initial  | Final  | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|--------|----------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method   | Run | Factor | Amount   | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5030B    |     |        | 5.99 g   | 5.0 mL | 591461 | 04/30/19 09:44 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8260B    |     | 1      | 5 g      | 5 mL   | 592400 | 05/03/19 14:04 | PN      | TAL NSH |
| Total/NA  | Prep     | 5030B    |     |        | 5.14 g   | 5.0 mL | 591459 | 04/30/19 09:44 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 1      | 0.1 mL   | 5 mL   | 591477 | 05/01/19 04:41 | AK1     | TAL NSH |
| Total/NA  | Prep     | 3550C    |     |        | 25.06 g  | 1 mL   | 592232 | 05/02/19 19:07 | AMD     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 50     |          |        | 592707 | 05/05/19 12:40 | GMH     | TAL NSH |
| Soluble   | Leach    | DI Leach |     |        | 2.9696 g | 30 mL  | 591634 | 04/30/19 14:33 | S00     | TAL NSH |
| Soluble   | Analysis | 300.0    |     | 10     |          |        | 592012 | 05/02/19 01:14 | SOO     | TAL NSH |

#### Client Sample ID: EMSU B Tank Battery New April Release -SB1 - @ 3' bgs Date Collected: 04/23/19 11:20

Date Received: 04/26/19 09:25

|           | Batch    | Batch    |     | Dil    | Initial  | Final  | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|--------|----------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method   | Run | Factor | Amount   | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5030B    |     |        | 5.02 g   | 5.0 mL | 591461 | 04/30/19 09:44 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8260B    |     | 1      | 5 g      | 5 mL   | 592141 | 05/02/19 21:01 | P1B     | TAL NSH |
| Total/NA  | Prep     | 5030B    |     |        | 5.62 g   | 5.0 mL | 591459 | 04/30/19 09:44 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 1      | 0.1 mL   | 5 mL   | 591477 | 05/01/19 06:23 | AK1     | TAL NSH |
| Total/NA  | Prep     | 3550C    |     |        | 25.16 g  | 1 mL   | 592232 | 05/02/19 19:07 | AMD     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 100    |          |        | 592707 | 05/05/19 12:57 | GMH     | TAL NSH |
| Soluble   | Leach    | DI Leach |     |        | 3.0077 g | 30 mL  | 591634 | 04/30/19 14:33 | SOO     | TAL NSH |
| Soluble   | Analysis | 300.0    |     | 1      |          |        | 591766 | 04/30/19 21:15 | T1C     | TAL NSH |

# Lab Sample ID: 490-172773-6

#### Matrix: Solid

Matrix: Solid

Client Sample ID: EMSU B Tank Battery New April Release -

Run

Date Collected: 04/23/19 11:21 Date Received: 04/26/19 09:25

SB1 - @ 4' bgs

Prep Type

Client: Sport Environmental Services LLC

Batch

Туре

Batch

Method

| lient Sam | ple ID: EM | SU B Tank Batte | e <mark>ry New A</mark> p | ril Releas | se -    | La     | b Sample II    | ): <b>49</b> 0 | -172773-8 |
|-----------|------------|-----------------|---------------------------|------------|---------|--------|----------------|----------------|-----------|
| Soluble   | Analysis   | 300.0           | 1                         | 5.0557 g   | 30 IIIL | 591766 | 04/30/19 21:26 |                | TAL NSH   |
| Soluble   | Leach      | DI Leach        |                           | 3.0357 q   | 30 mL   | 591634 | 04/30/19 14:33 | 500            | TAL NSH   |
| Total/NA  | Analysis   | 8015B           | 50                        |            |         | 592707 | 05/05/19 13:15 | GMH            | TAL NSH   |
| Total/NA  | Prep       | 3550C           |                           | 25.15 g    | 1 mL    | 592232 | 05/02/19 19:07 | AMD            | TAL NSH   |
| Total/NA  | Analysis   | 8015B           | 1                         | 0.1 mL     | 5 mL    | 591477 | 05/01/19 06:56 | AK1            | TAL NSH   |
| Total/NA  | Prep       | 5030B           |                           | 5.05 g     | 5.0 mL  | 591459 | 04/30/19 09:44 | JLP            | TAL NSH   |
| Total/NA  | Analysis   | 8260B           | 1                         | 5 g        | 5 mL    | 592404 | 05/03/19 13:59 | PN             | TAL NSH   |
| Total/NA  | Prep       | 5030B           |                           | 5.17 g     | 5.0 mL  | 591461 | 04/30/19 09:44 | JLP            | TAL NSH   |

Dil

Factor

#### w o bgs 301

Date Collected: 04/23/19 11:28 Date Received: 04/26/19 09:25

|           | Batch    | Batch    |     | Dil    | Initial  | Final  | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|--------|----------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method   | Run | Factor | Amount   | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5030B    |     |        | 5.98 g   | 5.0 mL | 591460 | 04/30/19 09:44 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8260B    |     | 1      | 0.1 mL   | 5 mL   | 592131 | 05/02/19 18:37 | P1B     | TAL NSH |
| Total/NA  | Prep     | 5030B    |     |        | 5.34 g   | 5.0 mL | 591461 | 04/30/19 09:44 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8260B    |     | 1      | 5 g      | 5 mL   | 592400 | 05/03/19 14:34 | PN      | TAL NSH |
| Total/NA  | Prep     | 5030B    |     |        | 5.72 g   | 5.0 mL | 591459 | 04/30/19 09:44 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 1      | 0.1 mL   | 5 mL   | 591477 | 05/01/19 07:30 | AK1     | TAL NSH |
| Total/NA  | Prep     | 3550C    |     |        | 25.44 g  | 1 mL   | 592232 | 05/02/19 19:07 | AMD     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 20     |          |        | 592707 | 05/05/19 13:32 | GMH     | TAL NSH |
| Total/NA  | Prep     | 3550C    |     |        | 25.44 g  | 1 mL   | 592232 | 05/02/19 19:07 | AMD     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 100    |          |        | 592707 | 05/05/19 13:50 | GMH     | TAL NSH |
| Soluble   | Leach    | DI Leach |     |        | 3.0392 g | 30 mL  | 591634 | 04/30/19 14:33 | SOO     | TAL NSH |
| Soluble   | Analysis | 300.0    |     | 1      | -        |        | 591766 | 04/30/19 21:38 | T1C     | TAL NSH |

#### Client Sample ID: EMSU B Tank Battery New April Release -SB1 - @ 8' bgs

Date Collected: 04/23/19 11:35 Date Received: 04/26/19 09:25

| _         | Batch    | Batch    |     | Dil    | Initial  | Final  | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|--------|----------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method   | Run | Factor | Amount   | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5030B    |     |        | 5.89 g   | 5.0 mL | 591460 | 04/30/19 09:44 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8260B    |     | 1      | 0.1 mL   | 5 mL   | 592131 | 05/02/19 17:12 | P1B     | TAL NSH |
| Total/NA  | Prep     | 5030B    |     |        | 5.66 g   | 5.0 mL | 591461 | 04/30/19 09:44 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8260B    |     | 1      | 5 g      | 5 mL   | 592141 | 05/02/19 21:58 | P1B     | TAL NSH |
| Total/NA  | Prep     | 5030B    |     |        | 5.36 g   | 5.0 mL | 591459 | 04/30/19 09:44 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 1      | 0.1 mL   | 5 mL   | 591477 | 05/01/19 08:04 | AK1     | TAL NSH |
| Total/NA  | Prep     | 3550C    |     |        | 25.20 g  | 1 mL   | 592232 | 05/02/19 19:07 | AMD     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 10     |          |        | 592707 | 05/05/19 14:07 | GMH     | TAL NSH |
| Soluble   | Leach    | DI Leach |     |        | 3.0151 g | 30 mL  | 591634 | 04/30/19 14:33 | S00     | TAL NSH |
| Soluble   | Analysis | 300.0    |     | 1      |          |        | 591766 | 04/30/19 21:49 | T1C     | TAL NSH |

Eurofins TestAmerica, Nashville

## Matrix: Solid

Lab

Matrix: Solid

Analyst



## Project/Site: EMSU B Tank Battery (New April Release)

Initial

Amount

Final

Amount

Batch

Number

Lab Chronicle

# Lab Sample ID: 490-172773-7

Prepared

or Analyzed

5/6/2019

## Release - Lab Sample ID: 490-172773-10

#### SB1 - @ 10' bgs Date Collected: 04/23/19 11:53 Date Received: 04/26/19 09:25

Client: Sport Environmental Services LLC

Project/Site: EMSU B Tank Battery (New April Release)

|           | Batch    | Batch    |     | Dil    | Initial  | Final  | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|--------|----------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method   | Run | Factor | Amount   | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5030B    |     |        | 5.09 g   | 5.0 mL | 591567 | 04/30/19 11:19 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8260B    |     | 1      | 0.1 mL   | 5 mL   | 592131 | 05/02/19 19:34 | P1B     | TAL NSH |
| Total/NA  | Prep     | 5030B    |     |        | 5.52 g   | 5.0 mL | 591569 | 04/30/19 11:19 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8260B    |     | 1      | 5 g      | 5 mL   | 592404 | 05/03/19 14:28 | PN      | TAL NSH |
| Total/NA  | Prep     | 5030B    |     |        | 5.92 g   | 5.0 mL | 591565 | 04/30/19 11:19 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 1      | 0.1 mL   | 5 mL   | 591826 | 05/01/19 22:02 | AK1     | TAL NSH |
| Total/NA  | Prep     | 3550C    |     |        | 25.16 g  | 1 mL   | 592232 | 05/02/19 19:07 | AMD     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 5      |          |        | 592707 | 05/05/19 14:25 | GMH     | TAL NSH |
| Total/NA  | Prep     | 3550C    |     |        | 25.16 g  | 1 mL   | 592232 | 05/02/19 19:07 | AMD     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 10     |          |        | 592707 | 05/05/19 16:10 | GMH     | TAL NSH |
| Soluble   | Leach    | DI Leach |     |        | 3.0773 g | 30 mL  | 591634 | 04/30/19 14:33 | SOO     | TAL NSH |
| Soluble   | Analysis | 300.0    |     | 1      |          |        | 591766 | 04/30/19 22:01 | T1C     | TAL NSH |

#### Client Sample ID: EMSU B Tank Battery New April Release -SB1 - @ 12' bgs Date Collected: 04/23/19 12:00 Date Received: 04/26/19 09:25

|           | Batch    | Batch    |     | Dil    | Initial  | Final  | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|--------|----------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method   | Run | Factor | Amount   | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5030B    |     |        | 5.29 g   | 5.0 mL | 591569 | 04/30/19 11:19 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8260B    |     | 1      | 5 g      | 5 mL   | 592141 | 05/02/19 20:32 | P1B     | TAL NSH |
| Total/NA  | Prep     | 5030B    |     |        | 5.38 g   | 5.0 mL | 591565 | 04/30/19 11:19 | JLP     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 1      | 0.1 mL   | 5 mL   | 591826 | 05/01/19 14:06 | AK1     | TAL NSH |
| Total/NA  | Prep     | 3550C    |     |        | 25.10 g  | 1 mL   | 592232 | 05/02/19 19:07 | AMD     | TAL NSH |
| Total/NA  | Analysis | 8015B    |     | 1      |          |        | 592707 | 05/05/19 14:42 | GMH     | TAL NSH |
| Soluble   | Leach    | DI Leach |     |        | 2.9727 g | 30 mL  | 591634 | 04/30/19 14:33 | SOO     | TAL NSH |
| Soluble   | Analysis | 300.0    |     | 1      |          |        | 591766 | 04/30/19 22:36 | T1C     | TAL NSH |

#### Laboratory References:

TAL NSH = Eurofins TestAmerica, Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Client Sample ID: EMSU B Tank Battery New April Release - Lab

# Matrix: Solid 4 5 st Lab TAL NSH 6

## Matrix: Solid

Lab Sample ID: 490-172773-11

## **Method Summary**

#### Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

| Method  | Method Description                 | Protocol | Laboratory |
|---------|------------------------------------|----------|------------|
| 3260B   | Volatile Organic Compounds (GC/MS) | SW846    | TAL NSH    |
| 3015B   | Gasoline Range Organics - (GC)     | SW846    | TAL NSH    |
| 3015B   | Diesel Range Organics (DRO) (GC)   | SW846    | TAL NSH    |
| 0.00    | Anions, Ion Chromatography         | MCAWW    | TAL NSH    |
| 550C    | Ultrasonic Extraction              | SW846    | TAL NSH    |
| 030B    | Purge and Trap                     | SW846    | TAL NSH    |
| I Leach | Deionized Water Leaching Procedure | ASTM     | TAL NSH    |

#### **Protocol References:**

ASTM = ASTM International

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

#### Laboratory References:

TAL NSH = Eurofins TestAmerica, Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

## **Accreditation/Certification Summary**

Client: Sport Environmental Services LLC Project/Site: EMSU B Tank Battery (New April Release)

## Laboratory: Eurofins TestAmerica, Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Job ID: 490-172773-1 |
|----------------------|
|----------------------|

| Authority              | Program       | EPA Region | Identification Number | Expiration Date |
|------------------------|---------------|------------|-----------------------|-----------------|
| A2LA                   | ISO/IEC 17025 |            | 0453.07               | 12-31-19        |
| Alaska (UST)           | State Program | 10         | UST-087               | 06-30-19        |
| Arizona                | State Program | 9          | AZ0473                | 05-05-20        |
| Arkansas DEQ           | State Program | 6          | 88-0737               | 04-25-20        |
| California             | State Program | 9          | 2938                  | 06-30-19        |
| Connecticut            | State Program | 1          | PH-0220               | 12-31-19        |
| Florida                | NELAP         | 4          | E87358                | 06-30-19        |
| Georgia                | State Program | 4          | NA: NELAP & A2LA      | 12-31-19        |
| Illinois               | NELAP         | 5          | 200010                | 12-09-19        |
| Iowa                   | State Program | 7          | 131                   | 04-01-20        |
| Kansas                 | NELAP         | 7          | E-10229               | 10-31-19        |
| Kentucky (UST)         | State Program | 4          | 19                    | 06-30-19        |
| Kentucky (WW)          | State Program | 4          | 90038                 | 12-31-19        |
| Louisiana              | NELAP         | 6          | 30613                 | 06-30-19        |
| Maine                  | State Program | 1          | TN00032               | 11-03-19        |
| Maryland               | State Program | 3          | 316                   | 03-31-20        |
| Massachusetts          | State Program | 1          | M-TN032               | 06-30-19        |
| Minnesota              | NELAP         | 5          | 047-999-345           | 12-31-19        |
| Mississippi            | State Program | 4          | N/A                   | 06-30-19        |
| Nevada                 | State Program | 9          | TN00032               | 07-31-19        |
| New Hampshire          | NELAP         | 1          | 2963                  | 10-09-19        |
| New Jersey             | NELAP         | 2          | TN965                 | 06-30-19        |
| New York               | NELAP         | 2          | 11342                 | 03-31-20        |
| North Carolina (WW/SW) | State Program | 4          | 387                   | 12-31-19        |
| North Dakota           | State Program | 8          | R-146                 | 06-30-19        |
| Oklahoma               | State Program | 6          | 9412                  | 08-31-19        |
| Oregon                 | NELAP         | 10         | TN200001              | 04-26-19 *      |
| Pennsylvania           | NELAP         | 3          | 68-00585              | 07-31-19        |
| Rhode Island           | State Program | 1          | LAO00268              | 12-30-19        |
| South Carolina         | State Program | 4          | 84009 (001)           | 02-28-19 *      |
| Tennessee              | State Program | 4          | 2008                  | 02-23-20        |
| Texas                  | NELAP         | 6          | T104704077            | 08-31-19        |
| USDA                   | Federal       |            | P330-13-00306         | 04-10-20        |
| Utah                   | NELAP         | 8          | TN00032               | 07-31-19        |
| Virginia               | NELAP         | 3          | 460152                | 06-14-19        |
| Washington             | State Program | 10         | C789                  | 07-19-19        |
| West Virginia DEP      | State Program | 3          | 219                   | 02-28-19 *      |
| Wisconsin              | State Program | 5          | 998020430             | 08-31-19        |
| Wyoming (UST)          | A2LA          | 8          | 453.07                | 12-31-19        |

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

| TestAmerica  |                            |
|--|----------------------------|
| THE LEADER IN ENVIRONMENTAL TESTINGNashville, TNCOOLER RECEIPT FORM  | 490-172773 Chain of Custoo |
| Cooler Received/Opened On <u>4/26/2019 @ 0925</u><br>Time Samples Removed From Cooler <u>3:40</u> Time Samples Placed In Storage <u>3:45</u><br>1. Tracking # <u>5949</u> (last 4 digits, FedEx) Courier: <u>FedEx</u><br>IR Gun ID <u>97310166</u> pH Strip Lot <u>M4</u> | (2 Hour Window)            |
| 2. Temperature of rep. sample or temp blank when opened: <u>3</u> $\frac{3}{2}$ Degrees Celsius  |                            |
| 3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen?  | YES NONA                   |
| 4. Were custody seals on outside of cooler?  | YES. NONA                  |
| If yes, how many and where:)   | fromt                      |
| 5. Were the seals intact, signed, and dated correctly?   | YES.NONA                   |
| 6. Were custody papers inside cooler?  | CESNONA                    |
| certify that I opened the cooler and answered questions 1-6 (initial)  | TR                         |
| 7. Were custody seals on containers: YES NO and Intact<br>Were these signed and dated correctly?   | YESNO. (NA)<br>YESNONA     |
| 8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Pa   | per Other None             |
| 9. Cooling process: (Ice Ice-pack Ice (direct contact) Dry ice   | -                          |
| 10. Did all containers arrive in good condition (unbroken)?  | RESNONA                    |
| 11. Were all container labels complete (#, date, signed, pres., etc)?  | (YE\$NONA                  |
| 12. Did all container labels and tags agree with custody papers?   | YESNONA                    |
| 13a. Were VOA vials received?  | YES. NONA                  |
| b. Was there any observable headspace present in any VOA vial?   | YESNO NA                   |
| Larger than this.  |                            |
| 14. Was there a Trip Blank in this cooler? YESNA If multiple coolers, seque  | nce #                      |
| I certify that I unloaded the cooler and answered guestions 7-14 (intial)  |                            |
| 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level?  | YES NO (NA)                |
| b. Did the bottle labels indicate that the correct preservatives were used   | YES NO NA                  |
| 16. Was residual chlorine present?   | YESNO.(.NA)                |
| I certify that I checked for chlorine and pH as per SOP and answered guestions 15-16 (intial)  | ALE                        |
| 17. Were custody papers properly filled out (ink, signed, etc)?  | FESNONA                    |
| 18. Did you sign the custody papers in the appropriate place?  | YES NO NA                  |
| 19. Were correct containers used for the analysis requested?   | ESNONA                     |
| 20. Was sufficient amount of sample sent in each container?  | ES NO NA                   |
| I certify that I entered this project into LIMS and answered questions 17-20 (intial)  |                            |
| I certify that I attached a label with the unique LIMS number to each container (intial)   |                            |
| 21. Were there Non-Conformance issues at login? YES. (NO) Was a NCM generated? YES. (NO)   | ).#                        |

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|---------|----------|
| lashvi  | n Drive  |
| erica N | Creighto |
| itAme   | Foster   |
| Tes     | 2960     |

Chain of Custody Record #264



Nashville, TN 37204-3719 phone 615.726.0177 fax 615.726.3404

TestAmerica Laboratories, Inc. Sample Specific Notes: 172773 Socs 11. 10am Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Loc: 490 Sampler: Clint Elliott For Lab Use Only: Walk-in Client: ab Sampling: Job / SDG No.: Therm ID No Months Ъ Date/Time: イノスジール4 COC No: Company: SATE 42V Archive for Corr'd Date: 04/23/2019 N M Disposal by Lat Carrier: :p,sqO õ Lab Contact: Jennifer Gambill Temp. Site Contact: Debi Moore Other: Cooler Client to Client sepholdu × × × × × × Received by XETX CRA RCRA тен (око+рко+мко) Perform MS / MSD (Y / N) Filtered Sample ( Y / N ) Date/Time: <sup>1</sup> *4/25/119 ||:!/0*a Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the C NPDES # of Cont. ~ ----~ -٣-----~ ~ ~ MORKING DAYS Matrix **Analysis Turnaround Time** S S S S S S S S S S S Project Manager: Debi Moore Type (C=Comp, G=Grab) Sample Regulatory Program: TAT if different from Below G Ċ Ċ Ċ G ი G Ċ G G G 2 weeks 1 week 2 days Tel/Fax: (432) 683-1100 1 day Company: Sport Env Sample Time CALENDAR DAYS 1105 1110 1115 1117 1135 1119 1120 1121 1128 1153 1200 Custody Seal No. Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Sample Date 4/23/2019 4/23/2019 4/23/2019 4/23/2019 4/23/2019 4/23/2019 4/23/2019 4/23/2019 4/23/2019 4/23/2019 4/23/2019 EMSU B Tank Battery New April Release - SB1 - @ 0-1' bgs EMSU B Tank Battery New April Release - HDP1 - @ 6" bgs EMSU B Tank Battery New April Release - HDP3 - @ 3" bgs EMSU B Tank Battery New April Release - HDP2 - @ 6" bgs EMSU B Tank Battery New April Release - SB1 - @ 10' bgs EMSU B Tank Battery New April Release - SB1 - @ 12' bgs EMSU B Tank Battery New April Release - SB1 - @ 2' bgs EMSU B Tank Battery New April Release - SB1 - @ 3' bgs EMSU B Tank Battery New April Release - SB1 - @ 6' bgs EMSU B Tank Battery New April Release - SB1 - @ 8' bgs EMSU B Tank Battery New April Release - SB1 - @ 4' bgs Project Name: EMSU B Tank Battery (New April Release) Comments Section if the lab is to dispose of the sample Non-Hazard Instructions/OC Requirements & Comments: ₽ Sample Identification Phone FAX Client Contact Yes P O # Purchase Order Not Required Sport Environmental Services, LLC Possible Hazard Identification: l 502 N. Big Spring Street Custody Seals Intact Midland, TX 79701 Relinquished by: (432) 683-1100 (888) 500-0622 Non-Hazard Site:

5/6/2019

12

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

6 1131

Date/Time: 1

Company:

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Attachment F

Waste Manifests

|                       | SHIPPER/COMPANY: X~         | FO  | DATE: 4-4-19   |
|-----------------------|-----------------------------|---|--|
| LEASE NAME:           | EMSUB                       | NTR   | TIME: S AMZEN  |
| RIG NAME & NUMB       |                             | Second Scand  | VEHICLE NO: 1893   |
| TRANSPORTER CO        | MPANY: Blue                 | Star.   | PHONE: 575-20555   |
| GENERATOR COMP        |                             | sell have Front   | PHONE: 4 32-234. 30  |
| CHARGE TO:            | Xto                         |   |  |
| TYPE OF               | [ ] Tank Bottoms            | [ ] Drilling Fluids [ ] Rins  | sate [] BS&W Content:  |
| MATERIAL              | [] Solids                   | Contaminated Soil   | Out wash   |
| Description:          |                             | 010   |  |
| VOLUME OF<br>MATERIAL | I ABBLS. 5                  | _: NØARD_8:   | []   |
| RRC or API #          |                             | C-133#  |  |
|                       |                             | JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WA<br>HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE<br>AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901,<br>361.001 et seq., AND REGULATIONS RELATED THERET<br>DRILLING FLUIDS, PRODUCED WATERS, AND OTHER V<br>DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATL<br>ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S A<br>THIS JOB TICKET. TRANSPORTER REPRESENTS AND WAI<br>BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW D<br>SERVICES, INC.'S FACILITY FOR DISPOSAL. | , CONSERVATION AND RECOVERY ACT OF 1970<br>, et seq., THE NM HEALTH AND SAF. CODE<br>D, by virtue of the exemption afforde<br>(ASTE ASSOCIATED with the exploration<br>(RAL GAS OR GEOTHERMAL ENERGY.<br>CCEPTANCE OF THE MATERIALS SHIPPED WIT<br>(RANTS THAT ONLY THE MATERIAL DELIVERE) |
| above described lo    | cation, and that it was ten | orter loaded the material represented by the dered by the above described shipper. This material was delivered without incident.  | s will certify that no additional  |

|   | ss: (575) 394-2511 • Dispo | +11   |  | DATE: 4-5-19   |
|---|----------------------------|---|--|--|
| LEASE OPERATOR/SHIPPER/COMPANY: X 10                |                            |   | TIME: 4:53 AMZEM   |  |
| EASE NAME: 2  | 1 to a da                  | 2   |  | VEHICLE NO: 105  |
| RIG NAME & NUMBER                                   | 12 8                       | Walling   | PHON   | IE:  |
| TRANSPORTER COMPA                                   | 2 440                      | Scott Kattema   | рном   | 4E#137-234-30  |
| CHARGE TO:  | X+C                        |   |  |  |
| TYPE OF<br>MATERIAL<br>Description:                 | [ ] Tank Bottoms           | [] Drilling Fluids  | [ ] Rinsate<br>[ ] Jet Out   | [ ] BS&W Content:  |
| VOLUME OF<br>MATERIAL                               | []BBLS                     | : IN YARD   | :  | []   |
| RRC or API #  |                            |   | C-133#   |  |
|   | IEV that the above Trans   | HEREWITH IS MATERIAL EXEMPT FROM<br>AS AMENDED FROM TIME TO TIME, 44<br>361.001 et seq., AND REGULATIONS R<br>DRILLING FLUIDS, PRODUCED WATERS<br>DEVELOPMENT OR PRODUCTION OF CR<br>ALSO AS A CONDITION TO SUNDANCE SI<br>THIS JOB TICKET. TRANSPORTER REPRI<br>BY OPERATOR/SHIPPER TO TRANSPO<br>SERVICES, INC.'S FACILITY FOR DISPOS | D U.S.C. & 6901, et s<br>ELATED THERETO, BY<br>S, AND OTHER WAST<br>UDE OIL OR NATURAL<br>ERVICES, INC.'S ACCEP<br>ESENTS AND WARRAN<br>RTER IS NOW DELIV<br>AL. | PER THE NUM REACTION AND SALE OF THE EXEMPTION AFFORD<br>E ASSOCIATED WITH THE EXPLORATIN<br>GAS OR GEOTHERMAL ENERGY.<br>PTANCE OF THE MATERIALS SHIPPED W<br>ITS THAT ONLY THE MATERIAL DELIVEN<br>THAT ONLY THE MATERIAL DELIVEN<br>THAT SUPPORT STATEMENT AT THE |
| above described lo<br>materials were add<br>DRIVER: | ded to this load, and that | porter loaded the material represendenced by the above described<br>the material was delivered with   |  | vill certify that no addition  |