SAGAMOK MOBIL UNDERGROUND STORAGE RELEASE

Troy Techlin
Environmental Response Program Specialist
Saginaw Chippewa Indian Tribe of Michigan
Site History

- On average about 120,000 gallons of fuel sold each month.
- Early 2017 UST sump alarms activated
- R.W. Mercer inspected sumps
  - Gasoline and water found in premium gasoline compartment
  - Sump was drained and line was shut off
  - Gas line tested for line tightness and failed
  - Unable to determine volume of gasoline loss
Site History continued...

- Oscar W. Larson was contracted to replaced product lines and sumps.
- During repair, heavy staining and strong petroleum odor was discovered.
  - Release was reported to USEPA.
Site Investigation

- Soil and Materials Engineers, Inc. (SME)
  - Collected 8 direct-push soil borings and groundwater samples
  - Sent to Fibertec environmental services for analysis
**Sagamok Mobil Assessment**

**CLIENT:** The Saginaw Chippewa Indian Tribe of Michigan

**PROJECT NUMBER:** 076713.00

**PROJECT LOCATION:** Mount Pleasant, Michigan

**DATE STARTED:** 7/18/17  
**COMPLETED:** 7/18/17  
**BORING METHOD:** Direct Push

**OPERATOR:** BJM  
**RIG NO.:** Truck  
**LOGGED BY:** AvR  
**CHECKED BY:**

<table>
<thead>
<tr>
<th>DEPTH (FEET)</th>
<th>PROFILE DESCRIPTION</th>
<th>SAMPLE PRESSURE (psi</th>
<th>RECOVERY (%)</th>
<th>FC (%)</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>ASPHALT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>FILL: Fine to Medium SAND with Silt- Some Gravel-Brown-Moist (SP-SM)</td>
<td>L51</td>
<td>41</td>
<td>19.1</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>FILL: Fine to Medium SAND- Brown- Moist (SP)</td>
<td>L52</td>
<td>42</td>
<td>3.227</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FILL: Buried Topsoil- SILTY SAND- Dark Brown- Moist (SM)</td>
<td>L53</td>
<td>44</td>
<td>74</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Ceramic drain tile encountered at 4 feet. Petroleum odors noted from 4 to 14 feet.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LEAN CLAY- Some Sand and Gravel-Occasional Silty Sand Sears- Brown and Gray (CL)</td>
<td>L54</td>
<td>24</td>
<td>128</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>END OF BORING AT 14.0 FEET.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**GROUNDWATER & BACKFILL INFORMATION**

<table>
<thead>
<tr>
<th>DEPTH (FT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DURING BORING:</td>
</tr>
<tr>
<td>AT END OF BORING:</td>
</tr>
</tbody>
</table>

**BACKFILL METHOD:** Soil Cuttings, Bentonite and Asphalt

**NOTES:**
1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated reports should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.
3. No staining observed.
Michigan Underground Storage Tank Authority (MUSTA)

- Governed by Board of Directors that are appointed by the Governor
- DEQ administers authority
- MUSTA is in charge of Underground Storage Tank Cleanup Fund (USTCF)
USTCF Uses

- Payment of principle and interest due on bonds and notes
- Reasonable Administrative costs not to exceed 7% of expected annual revenues
- Payment of claims
Funding Sources

- First $20 million deposited into the Refined Petroleum Fund annually (7/8 cent per gallon fee)
- Income from buy-down of claim deductibles
- Interest earned on Fund balance
USTCF Eligibility Requirements

 Comply with Part 211 UST registration and fee requirements

 Maintain financial responsibility for the deductible amount

 Owner or Operator must maintain a copy of approval letter
Eligibility Requirements continued...

- If facility is found out of compliance, LARA is notified and owner must seek other means of financial responsibility
Estimated Schedule and Work Plan

- **Field Sampling** – August 20th, 2018
- **Laboratory analyses** – September 5th, 2018
- **Data Evaluation & reporting** – October 3rd, 2018
Note: Depending on observations in the field “step-out” borings may be needed but would be discussed and approved by the tribe and EPA prior to advancing.