Addendum 1  
Solicitation 21-99565  
Wheeler Sports Complex – Phase II Improvements

This addendum serves to notify all bidders of the following changes to the solicitation documents:

1. The pre-bid meeting sign-in sheet has been uploaded to the solicitation both on the City’s Purchasing website and in Bid Express.
2. Soil boring report is attached.

Please acknowledge receipt of this Addendum by checking the acknowledgment box within the www.bidexpress.com solicitation or by initialing and dating next to Addendum 1 on the paper bid form if it was requested five (5) business days before bid opening.

Posted: July 22, 2021
March 5, 2021  
EPC# 21G1494  

City of Duluth – Property & Facilities Management  
1532 West Michigan Street  
Duluth, MN 55806  

Attn:  Mr. Robert Hurd  

Re:  Soil Boring Log Report  
Wheeler Athletic Complex Tennis Court Improvements  

Dear Mr. Hurd,  

This letter report is in regard to the eight corings/borings performed by EPC on February 22 & 23, 2021. All work was performed at the direction of yourself. All borings were staked and numbered in the field by EPC. Core samples of bituminous pavement and the underlying concrete were obtained using a 4-inch core barrel. Borings were performed with EPC’s CME 55 rubber track mounted drill rig. Standard penetration tests were performed with a hammer calibrated to N79. Blow counts may have been affected due to possible frozen soils. Samples taken with a Modified California sampler have been converted to SPT values. Sample moistures may be affected due to the water used in the coring process.  

Generally speaking, the tennis court surface consisted of 4 to 6 inches of bituminous pavement over 5 to 6 inches of concrete. The bituminous pavement appears to have 3 to 4 lifts with top lift being approximately 1.5 inches. Steel mesh was encountered in the concrete. The soil below the tennis court typically consisted of 1 to 2 feet of silty sand to sand with silt and gravel with sandy clay/sandy silt below it in a medium to stiff consistancy. Native fat clay in a medium to stiff consistency was encountered around 3 to 6 feet below the surface of the tennis court.  

Please refer to the table below and the boring logs in the appendix for details.  

<table>
<thead>
<tr>
<th>Boring Number</th>
<th>Thickness of Bituminous Pavement (in)</th>
<th>Thickness of Concrete/Depth to bottom of Concrete (in)</th>
<th>Depth to Bottom of Fill (ft)</th>
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<tbody>
<tr>
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<tr>
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<td>4</td>
<td>5.5</td>
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<tr>
<td>SB-21-8</td>
<td>4.5</td>
<td>5.5</td>
<td>10</td>
</tr>
</tbody>
</table>
*No recovery. Depth was measured inside of borehole.

One composite gradation was tested on the material immediately below the concrete and classified as Sand with Silt and Gravel with 9.3% passing the #200 sieve. The gradation is included in the appendix.

This report completes EPC’s work on this project to date. We must caution you that this report, prepared for soils classification and refusal depth information only, is not a complete geotechnical engineering report. EPC cannot be responsible for possible misinterpretation of the contents of the boring logs, or the strengths of the soils described in them. Soil samples from this project will be saved for two months from the date of this report unless EPC is directed in writing to do otherwise.

We would like to thank you for allowing EPC to be of service to you on this project. If you have any questions or comments, please call us at (218) 727-1239 (w) or (218) 341-4536 (c).

Sincerely,

Logan Tuura,  
Engineer-In-Training

Reviewed by:

Gary E. Hage, P.E.  
Principal Engineer

Enclosures: Boring Logs, Location Map, Gradation, and Core Sample Photos
MC1
MC2
50
100
44-37-14-8 (51)
14-8-12-12 (20)

4" Bituminous Pavement
6" Concrete
(SM) (FILL) SILTY SAND, trace gravel, brown, wet
(CL-ML) (FILL) LEAN CLAY to LEAN SILT, some sand, trace organics, brown, wet
(CL-ML) (FILL) SANDY LEAN CLAY to SANDY LEAN SILT, trace organics, brown to black
(CH) FAT CLAY, brown to reddish brown, moist

Bottom of hole at 5.0 feet.
### Geotechnical Borehole Log

**Client**  City of Duluth

**Project Name**  Wheeler Field Tennis Court

**Project Number**  21G1494

**Project Location**  Duluth, MN

**Date Started**  2/23/21

**Completed**  2/23/21

**Drilling Contractor**  EPC Engineering & Testing

**Drilling Method**  CME 55 Rubber Track

**Logging by**  BEM

**Checked by**  LT

---

**Elevation (ft)**  | **Depth (ft)**  | **Material Description**  | **Sample Type**  | **Recovery % (RQD)**  | **Pocket Penetrometer**  | **Dry Unit Weight (pcf)**  | **Fines Content (%)**  |
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<td></td>
<td>5.5&quot; Bituminous Pavement</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.5</td>
<td></td>
<td>5&quot; Concrete</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(SM) (FILL) SILTY SAND w/ GRAVEL, brown, saturated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>NO RECOVERY</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>5.0</td>
<td></td>
<td>Bottom of hole at 5.0 feet</td>
<td></td>
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<td></td>
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</tbody>
</table>

**Ground Elevation**

**Hole Size**  4"

**Ground Water Levels:**

- **At Time of Drilling:** ---
- **At End of Drilling:** ---
- **After Drilling:** ---

**Notes:**

- **SPT N Value**
  - 20 40 60 80

---

**Ground Elevations:**

- 20 40 60 80

---

**Finest Content (%):**

- 20 40 60 80

---

**Sample Numbers:**

- MC 1 100 35-83
- MC 2 0 35-13-9-8 (22)
- MC 3 0 8-12

---

**Client:**

**Project Number:**  21G1494

**Project Name:**  Wheeler Field Tennis Court

**Project Location:**  Duluth, MN

**Drilling Method:**  CME 55 Rubber Track

---

**Date Started:**  2/23/21

**Completed:**  2/23/21

---

**Drilling Contractor:**  EPC Engineering & Testing

---

**Geotechnical Borehole Plots**

- 21G COFD WHEELER FIELD TENNIS COURT.GPJ
- GINT US LAB.GDT

---

**Bottom of hole at 5.0 feet.**

---

**Notes:**

- **SPT N Value**
  - 20 40 60 80

---

**Ground Elevations:**

- 20 40 60 80

---

**Finest Content (%):**

- 20 40 60 80

---

**Sample Numbers:**

- MC 1 100 35-83
- MC 2 0 35-13-9-8 (22)
- MC 3 0 8-12

---

**Client:**

**Project Number:**  21G1494

**Project Name:**  Wheeler Field Tennis Court

**Project Location:**  Duluth, MN

**Drilling Method:**  CME 55 Rubber Track

---

**Date Started:**  2/23/21

**Completed:**  2/23/21

---

**Drilling Contractor:**  EPC Engineering & Testing

---

**Geotechnical Borehole Plots**

- 21G COFD WHEELER FIELD TENNIS COURT.GPJ
- GINT US LAB.GDT

---

**Bottom of hole at 5.0 feet.**
<table>
<thead>
<tr>
<th>ELEVATION (ft)</th>
<th>DEPTH (ft)</th>
<th>MATERIAL DESCRIPTION</th>
<th>GRAPHIC LOG</th>
<th>MATERIAL DESCRIPTION</th>
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<td></td>
<td>5.5&quot; Concrete</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(SP-SM) (FILL) SAND w/ SILT and GRAVEL, brown, moist</td>
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<tr>
<td>2.5</td>
<td></td>
<td>(SM) (FILL) SANDY SILT, some clay, trace organics</td>
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<td></td>
</tr>
<tr>
<td>5.0</td>
<td></td>
<td>(CH) FAT CLAY w/ SAND, brown to reddish brown, moist</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Bottom of hole at 5.0 feet.**

**Client:** City of Duluth  
**PROJECT NUMBER:** 21G1494  
**DATE STARTED:** 2/23/21  
**DATE COMPLETED:** 2/23/21  
**GROUND ELEVATION:**  
**HOLE SIZE:** 4"  
**DRILLING CONTRACTOR:** EPC Engineering & Testing  
**LOGGED BY:** BEM  
**CHECKED BY:** LT  
**DATE STARTED:** 2/23/21  
**COMPLETED:** 2/23/21  
**NOTES:**  

**GROUND WATER LEVELS:**

**GROUND ELEVATION:**

**LOGGED BY:** BEM  
**CHECKED BY:** LT  
**AT TIME OF DRILLING:**  
**AT END OF DRILLING:**  
**AFTER DRILLING:**  

**DRILLING METHOD:** CME 55 Rubber Track  
**GROUND WATER LEVELS:**

**DATE STARTED:** 2/23/21  
**COMPLETED:** 2/23/21  
**NOTES:**  

**SPT N VALUE**

<table>
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<th>DEPTH (ft)</th>
<th>Sample Type Number</th>
<th>Recovery % (RQD)</th>
<th>Blow Counts (N Value)</th>
<th>Pocket Penetrometer</th>
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<td>80</td>
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**EPC Engineering & Testing**

**Geotechnical • Environmental • Materials Engineering**

539 Garfield Avenue
Duluth, Minnesota 55802

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**Boring Number SB-21-4**

---

**Client**: City of Duluth  
**Project Name**: Wheeler Field Tennis Court  
**Project Number**: 21G1494  
**Project Location**: Duluth, MN

**Date Started**: 2/23/21  
**Completed**: 2/23/21  
**Ground Elevation**:  
**Hole Size**: 4"

**Drilling Contractor**: EPC Engineering & Testing  
**Drilling Method**: CME 55 Rubber Track  
**Logged By**: BEM  
**Checked By**: LT  
**At Time of Drilling**:  
**At End of Drilling**:  
**After Drilling**: ---

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**Notes**: SPT N Value  
**Sample Type Number**:  
**Recovery %**: (RQD)  
**Blow Counts (N Value)**:  
**Pocket Penetrometer**:  
**Dry Unit Weight (pcf)**:  
**Fines Content (%)**: 

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**Graphic Log**

**Material Description**

- 0.0: 5.5" Bituminous Pavement
- 2.5: 6" Concrete  
- (SM) (FILL) SILTY SAND w/ GRAVEL, brown, wet  
- (SM) (FILL) SILTY SAND, brown, moist  
- (ML) (FILL) SANDY SILT, brown, moist  
- (CH) FAT CLAY, trace sand, moist, reddish brown

**Elevation (ft)**  
**Depth (ft)**

<table>
<thead>
<tr>
<th>Elevation</th>
<th>Depth</th>
<th>Material Description</th>
<th>Sample Type Number</th>
<th>Recovery % (RQD)</th>
<th>Blow Counts (N Value)</th>
<th>Pocket Penetrometer</th>
<th>Dry Unit Weight (pcf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>0.0</td>
<td>5.5&quot; Bituminous Pavement</td>
<td>MC</td>
<td>100</td>
<td>59-54</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.5</td>
<td>2.5</td>
<td>6&quot; Concrete</td>
<td>SS</td>
<td>100</td>
<td>12-8-7 (15)</td>
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<tr>
<td>5.0</td>
<td>5.0</td>
<td>Bottom of hole at 5.0 feet.</td>
<td>SS</td>
<td>100</td>
<td>7-10-12 (22)</td>
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<td></td>
</tr>
</tbody>
</table>
**EPC Engineering & Testing**

**Geotechnical • Environmental • Materials Engineering**

539 Garfield Avenue
Duluth, Minnesota 55802

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**CLIENT**  City of Duluth  
**PROJECT NUMBER**  21G1494  
**PROJECT NAME**  Wheeler Field Tennis Court  
**PROJECT LOCATION**  Duluth, MN

---

**DATE STARTED**  2/23/21  
**COMPLETED**  2/23/21  
**GROUND ELEVATION**  
**HOLE SIZE**  4"

---

**DRILLING CONTRACTOR**  EPC Engineering & Testing  
**DRILLING METHOD**  CME 55 Rubber Track

---

**LOGGED BY**  BEM  
**CHECKED BY**  LT

---

**NOTES**

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**GROUND WATER LEVELS:**

---

**HOLE SIZE**

---

**DRILLING CONTRACTOR**

---

**GROUND WATER LEVELS:**

---

**DATE STARTED**

---

**LOGGED BY**  BEM  
**CHECKED BY**  LT

---

**NOTES**

---

**GROUND WATER LEVELS:**

---

**DATE STARTED**

---

**LOGGED BY**  BEM  
**CHECKED BY**  LT

---

**NOTES**

---

**GROUND WATER LEVELS:**

---

**DATE STARTED**

---

**LOGGED BY**  BEM  
**CHECKED BY**  LT

---

**NOTES**

---

**GROUND WATER LEVELS:**

---

**DATE STARTED**

---

**LOGGED BY**  BEM  
**CHECKED BY**  LT

---

**NOTES**

---

**GROUND WATER LEVELS:**

---

**DATE STARTED**

---

**LOGGED BY**  BEM  
**CHECKED BY**  LT

---

**NOTES**

---

**GROUND WATER LEVELS:**

---

**DATE STARTED**
5.5" Bituminous Pavement

5.5" Concrete

(SP-SM) SAND w/ SILT and GRAVEL, brown, moist

(CH) (FILL) CLAY w/ SILT and SAND, trace gravel, trace organics, brown, moist

(SM) (FILL) SILTY SAND, brown, moist

(SC-SM) (FILL) SILTY CLAYEY SAND, some organics, brown, wet

(CH) FAT CLAY w/ SAND, brown, moist

Bottom of hole at 7.0 feet.
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<th>BLOW COUNTS (N VALUE)</th>
<th>DRY UNIT WT. (pcf)</th>
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</thead>
<tbody>
<tr>
<td>0.0</td>
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<td>MC</td>
<td>100</td>
<td>22-58-54-29 (112)</td>
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<td>2.5</td>
<td>5.5&quot; Concrete</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>(SM) (FILL) SILTY SAND w/ GRAVEL, brown, wet</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.5</td>
<td>(CL) (FILL) SANDY CLAY w/ GRAVEL, brown, wet</td>
<td>SS</td>
<td>100</td>
<td>4-3-3-3 (6)</td>
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<tr>
<td>5.0</td>
<td>(CL) (FILL) CLAY w/ SAND, brown, moist</td>
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<tr>
<td>5.0</td>
<td>(CH) FAT CLAY, some sand, brown, moist</td>
<td></td>
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</tbody>
</table>

Bottom of hole at 5.0 feet.
**EPC Engineering & Testing**

**Geotechnical • Environmental • Materials Engineering**

539 Garfield Avenue
Duluth, Minnesota 55802

---

**CLIENT**  City of Duluth

**PROJECT NUMBER**  21G1494

**DATE STARTED**  2/23/21  **COMPLETED**  2/23/21

**GROUND ELEVATION**  ---  **HOLE SIZE**  4"  **GROUND WATER LEVELS:**  ---

**DRILLING CONTRACTOR**  EPC Engineering & Testing

**LOGGED BY**  BEM  **CHECKED BY**  LT  **AT TIME OF DRILLING**  ---

**NOTES**  ---  **AT END OF DRILLING**  ---  **AFTER DRILLING**  ---

---

**GRAPHIC LOG**

**MATERIAL DESCRIPTION**

<table>
<thead>
<tr>
<th>ELEVATION (ft)</th>
<th>DEPTH (ft)</th>
<th>MATERIAL DESCRIPTION</th>
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<tbody>
<tr>
<td>0.0</td>
<td>0.0</td>
<td>4.5&quot; Bituminous Pavement</td>
</tr>
<tr>
<td>2.5</td>
<td>2.5</td>
<td>5.5&quot; Concrete</td>
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<tr>
<td>5.0</td>
<td>5.0</td>
<td>(SM) (FILL) SILTY SAND w/ GRAVEL, brown, wet</td>
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<tr>
<td></td>
<td></td>
<td>(CL) (FILL) SANDY CLAY w/ GRAVEL, brown, wet</td>
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<td></td>
<td>(SM) (FILL) SILTY SAND, trace gravel, brown, moist</td>
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<tr>
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<td>(CH) FAT CLAY w/ SAND, brown, moist</td>
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**GROUND ELEVATION**

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<thead>
<tr>
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<th>20</th>
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<th>60</th>
<th>80</th>
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<tr>
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<tr>
<td>2.5</td>
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<tr>
<td>5.0</td>
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**DRILLING METHOD**  CME 55 Rubber Track

**DATE STARTED**  2/23/21  **COMPLETED**  2/23/21

**DRILLING CONTRACTOR**  EPC Engineering & Testing

**GROUND WATER LEVELS:**

**CHECKED BY**  LT

---

**FREQUENCY**

<table>
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<tr>
<th>ELEVATION (ft)</th>
<th>SAMPLE TYPE NUMBER</th>
<th>RECOVERY % (RQD)</th>
<th>BLOW COUNTS (N VALUE)</th>
<th>DRY UNIT WT. (pcf)</th>
<th>FINES CONTENT (%)</th>
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<tbody>
<tr>
<td>0.0</td>
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<td>2.5</td>
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**REFERENCES**

**STATE**  MN  **CITY**  Duluth  **COUNTY**  St. Louis  **COUNTRY**  USA

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**PAGE 1 OF 1**

---

**BORING NUMBER**  SB-21-8

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**CLIENT**  City of Duluth

**PROJECT NUMBER**  21G1494

**PROJECT NAME**  Wheeler Field Tennis Court

**PROJECT LOCATION**  Duluth, MN

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**LOGGED BY**  BEM  **CHECKED BY**  LT

---

**NOTES**  ---  **AFTER DRILLING**  ---

---

**SPT N VALUE**

<table>
<thead>
<tr>
<th>ELEVATION (ft)</th>
<th>20</th>
<th>40</th>
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<td></td>
</tr>
<tr>
<td>2.5</td>
<td></td>
<td></td>
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</tr>
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</tr>
<tr>
<td>GRAIN SIZE WITH SPEC BANDS</td>
<td>21G CORD WHEELER FIELD TENNIS COURT.GPJ</td>
<td>GINT S TD US LAB.GDT</td>
<td>3/5/21</td>
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<tr>
<td>---------------------------</td>
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**Specimen Identification**

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**Classification**

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**GRAVEL**

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**SAND**

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<td>% COARSE</td>
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<tr>
<td>% FINE</td>
<td>9.3</td>
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**SILT OR CLAY**

| LL | 0.77 |
| PL | 62.17 |
| PI | 3/5/21 |

**Notes**

- Composite Sample of soils immediately below concrete of tennis court.
- GRAIN SIZE DISTRIBUTION

**PERCENT FINER BY WEIGHT**

**U.S. SIEVE NUMBERS**

- D30
- D60
- D100

**NOTES**

- SPEC:
  - 3"
  - 2"
  - 1.5"
  - 1"
  - 3/4"
  - 5/8"
  - 1/2"
  - 3/8"
  - #4
  - #8
  - #16
  - #30
  - #40
  - #60
  - #80
  - #100
  - #200

**U.S. SIEVE OPENING IN INCHES**

- 6
- 4
- 3
- 2.5
- 1.5
- 1/4
- 3/8
- 1/2
- 3/8
- 1/2

**GRAIN SIZE IN MILLIMETERS**

- 9.3
- 8.1
- 6.3
- 4.5
- 3.1
- 1.8
- 1.2
- 0.8
- 0.5
- 0.3
- 0.1

**PERCENT FINER BY WEIGHT**

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<tbody>
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<tr>
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<td>Geotechnical Environmental • Materials Engineering</td>
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<tr>
<td>ADDRESS</td>
<td>539 Garfield Avenue</td>
</tr>
<tr>
<td>CITY</td>
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