DESIGN STANDARDS FOR: SPORTS FIELD MIX

Field Mix

1. Field mix shall meet the grain size data shown in the attached sieve analysis entitled, “Squalicum Creek Park.”
2. Submission of a 1-lb. sample of Field Mix in a labeled plastic bag is required for approval by Project Manager.
3. Field Mix shall be free from weeds, weed seed, deleterious materials, and foreign materials, resin, tannin, or other compounds detrimental to plant life.
Infield Mix Geri Fields 2006

CITY OF BELLINGHAM PARKS AND RECREATION DESIGN STANDARDS FOR PARK AND TRAIL DEVELOPMENT
PERMEABILITY REPORT - SOILS
CONSTANT-HEAD METHOD
ASTM D5084

PROJECT: Squalicum Creek Park
ADDRESS: Bellingham, WA
CLIENT: City of Bellingham - Parks Department

SOIL TYPE: SAND with Silt (SP-SM)
SOURCE: Geri 4 - Left Field, ~20' inside of fence

<table>
<thead>
<tr>
<th>TEST #</th>
<th>WET DENSITY (PCF)</th>
<th>DRY DENSITY (PCF)</th>
<th>INITIAL MOISTURE CONTENT (%)</th>
<th>COMPACITION (%)</th>
<th>PERMEABILITY CM/SEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>131.7</td>
<td>111.7</td>
<td>17.9</td>
<td>92.7</td>
<td>3.6 x 10^4</td>
</tr>
<tr>
<td>2</td>
<td>92.7</td>
<td>83.5</td>
<td>11.0</td>
<td>69.3</td>
<td>1.7 x 10^4</td>
</tr>
</tbody>
</table>

Comments: The above sample was remolded and compacted to bracket the dry density obtained in the field (88.6pcf). The sample was then tested for permeability in general accordance with ASTM D5084.
### Grain Size Test Data

#### Point 1
- **Depth (mm):** 100
- **Classification:** Poorly Graded SAND with Silt (SP/SM)
- **(Logger):** 1.0

#### Point 2
- **Depth (mm):** 100
- **D_10:** 26
- **D_50:** 1.117
- **D_90:** 0.773
- **D_10:** 0.026
- **% Gravel:** 6.4
- **% Sand:** 42.1
- **% Silt:** 17.3
- **C_l:** 17.3
- **C_m:** 16.5

#### Grain Size Test Data Formula
- **C_l:**
  \[ C_l = \frac{D_{90}^2}{(D_{50} - D_{10})^2} \]
- **C_m:**
  \[ C_m = \frac{D_{90}}{D_{50}} \]

- To be well graded: \( 1 < C_l < 3 \) and \( C_m > 4 \) for GW or \( C_m > 6 \) for SW

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