Appendix F. Boring Logs
Appendix

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**TEST BORING REPORT - Geoprobe**

**BORING NO.** SG-1

**PROJECT** Heritage Fields K-8 School #2 - Site A

**LOCATION** Cadence and Theme, Irvine, CA

**CLIENT** Irvine USD

**CONTRACTOR** Interphase Environmental

**DRILLER** Gilbert

**DATE FINISHED** 11/17/2016

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**Elevation** ft. **Datum** **Boring Location** In siltation basin **Backfill Material** **Drilling Notes:**

<table>
<thead>
<tr>
<th>Depth (ft.)</th>
<th>Sample</th>
<th>Recovery</th>
<th>PID Reading</th>
<th>USCS Symbol</th>
<th>Visual- Manual Identification &amp; Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>SG-1@0.5'</td>
<td>&lt;0.1</td>
<td>ML</td>
<td>SILT</td>
<td>Stiff brown (7.5YR 4/3) SILT, no odor, no staining, moist, artificial fill</td>
</tr>
<tr>
<td>5</td>
<td>SG-1@4.0'</td>
<td>&lt;0.1</td>
<td>SILT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>SG-1@8.0'</td>
<td>&lt;0.1</td>
<td>SM</td>
<td>SILTY SAND</td>
<td>Dense reddish brown (5YR 4/3) silty SAND with occasional gravel, no odor, no staining, moist, alluvium</td>
</tr>
<tr>
<td>15</td>
<td>SG-1@10.0'</td>
<td>&lt;0.1</td>
<td>SP</td>
<td>POORLY GRADED SAND</td>
<td>Dense light brown (7.5YR 4/6) poorly graded medium to coarse SAND with occasional gravel, no odor, no staining, moist</td>
</tr>
</tbody>
</table>

**END OF BORING**

Total depth = 16.0 feet bgs, no groundwater encountered

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**Field Tests**

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Elapsed Time (hr.)</th>
<th>Bottom of Casing</th>
<th>Bottom of Hole</th>
<th>Water</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Well Diagram**

**Sample ID**

**Water Level Data**

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Depth in feet to:</th>
<th>Sample ID</th>
<th>Well Diagram</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** Maximum Particle Size is determined by direct observation within the limitations of sampler size.

**NOTE:** Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.
### Boring Log and Sample Review

**Boring No.:** SG-17  
**Project:** Heritage Fields K-8 School #2 - Site A  
**Location:** Cadence and Theme, Irvine, CA  
**Contractor:** Interphase Environmental  
**Driller:** Gilbert  
**Date Started:** 11/18/2016  
**Date Finished:** 11/18/2016  

**Elevation (ft.)**  
**Datum:**  

**Drilling Notes:** Set soil gas probes at 5', 15', & 25' bgs.

### Visual-Manual Identification & Description

<table>
<thead>
<tr>
<th>Depth (ft.)</th>
<th>Sample No.</th>
<th>Recovery (%)</th>
<th>USCS Symbol</th>
<th>Density/Consistency</th>
<th>Color</th>
<th>Group Name &amp; Symbol</th>
<th>Maximum Particle Size*</th>
<th>Structure</th>
<th>Odor</th>
<th>Moisture</th>
<th>Geologic Interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>SG-17@0.0</td>
<td>&lt;0.1</td>
<td>ML</td>
<td>Silty brown (7.5YR 4/4)</td>
<td>Silty with occasional sand, no odor, no staining, moist, artificial fill</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>SG-17@4.0</td>
<td>&lt;0.1</td>
<td>Silty Sand</td>
<td>Dense reddish brown (5YR 4/3)</td>
<td>Silty SAND with occasional gravel, no odor, no staining, alluvium</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>SG-17@12.0</td>
<td>&lt;0.1</td>
<td>Poorly Graded Sand</td>
<td>Dense light brown (7YR 6/4)</td>
<td>Poorly graded medium to coarse SAND with occasional gravel, no odor, no staining, moist</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**END OF BORING** Total depth = 16.0 feet bgs, no groundwater encountered.

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*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.*

**Field Tests**  
**Distancy:** R - Rapid  
**Toughness:** L - Low  
**Plasticity:** N - Nonplastic  

**Summary:**

**Driller:** Gilbert  
**Date Finished:** 11/18/2016  
**Contractor:** Interphase Environmental  
**Date Started:** 11/18/2016  
**Boring Location:** Cadence and Theme, Irvine, CA  
**Client:** Irvine USD  
**Field Rep.:** M. Watson  
**Project:** Heritage Fields K-8 School #2 - Site A  
**PW File No.:** ISD-33.0  

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**NOTE:** Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.
**TEST BORING REPORT - Geoprobe**

**BORING NO.** SG-26

**PROJECT** Heritage Fields K-8 School #2 - Site A

**LOCATION** Cadence and Theme, Irvine, CA

**CLIENT** Irvine USD

**CONTRACTOR** Interphase Environmental

**DRILLER** Gilbert

**FIELD REP.** M. Watson

**DATE STARTED** 11/21/2016

**DATE FINISHED** 11/21/2016

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**Elevation (ft.)**

**Datum**

**Boring Equipment**

<table>
<thead>
<tr>
<th>Type</th>
<th>Geoprobe</th>
<th>Track</th>
<th>Tripod</th>
</tr>
</thead>
</table>

**Rig Make & Model**

**Backfill Material**

Hydrated Bentonite Chips, Monterey Sand

**Drilling Notes:** Set soil gas probes at 0', 15' & 25' bgs

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**BORING LOG AND SAMPLE REVIEW:**

**Toughness:** L - Low  M - Medium  H - High

**Dry Strength:** N - None  L - Low  M - Medium  H - High  V - Very High

**Dilatancy:** R - Rapid  S - Slow  N - None

**Plasticity:** N - Nonplastic  L - Low  M - Medium  H - High

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**Visual-Manual Identification & Description**

(density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)

**Time**

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**Sample ID** SG-26@0.0' **Sample No.** ML **USCS Symbol** Silt with sand, no odor, no staining, artificial fill 1148

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**Sample ID** SG-26@5.0' **Sample No.** ML **USCS Symbol** Stiff brown (5YR 4/3) silt with sand, no odor, no staining, artificial fill 1150

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**Sample ID** SG-26@10.0' **Sample No.** SM **USCS Symbol** Dense reddish brown (5YR 4/3) silty sand with occasional gravel, no odor, no staining, alluvium 1154

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**END OF BORING** Total depth = 16.0 feet bgs, no groundwater encountered

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**NOTE:** Maximum Particle Size is determined by direct observation within the limitations of sampler size.

**NOTE:** Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.