GEOTECHNICAL BOREHOLE KEY

Key to Exploration Logs

Figure A.1

NOTES:
1. FOR BOREHOLE AND TEST PIT LOCATIONS SEE GEOTECHNICAL REPORT.
2. THE BOREHOLE LOG IS ONLY A PORTION OF A REPORT PREPARED BY GEOENGINEERS "TOTEM LAKE CONNECTOR PHASE 2 GEOTECHNICAL ENGINEERING SERVICES" DATED OCTOBER 2018.

THIS DRAWING HAS BEEN PREPARED FOR THE TOTEM LAKE CONNECTOR PROJECT BY GEOENGINEERS, THEIR EMPLOYEES, SUBCONSULTANTS OR AGENTS. ACCEPT NO RESPONSIBILITY FOR ANY OTHER USE.
Log of Boring B-1

Project: Totem Lake Connector
Project Location: Kirkland, Washington

**Figure A-2** Sheet 1 of 2

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<th>Elevation (feet)</th>
<th>Blows/foot</th>
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**NOTES:**
1. FOR BOREHOLE KEY SEE DRAWING TLC-G-403.
2. FOR BOREHOLE LOCATIONS SEE DRAWING TLC-G-102.
3. THIS BOREHOLE LOG IS ONLY A PORTION OF A REPORT PREPARED BY GEODEngineers 'TOTEM LAKE CONNECTOR PHASE 2 GEOTECHNICAL ENGINEERING SERVICES' DATED OCTOBER 2018.

This drawing has been prepared for the TOTEM LAKE CONNECTOR PROJECT. COWi, GEODEngineers, their employees, subconsultants or agents accept no responsibility for any other use.
### Field Data

#### Material Description

<table>
<thead>
<tr>
<th>Interval</th>
<th>Depth (feet)</th>
<th>Elevation (feet)</th>
<th>Fines Content (%)</th>
<th>Moisture Group</th>
<th>Testing</th>
<th>Collected Sample</th>
<th>Blows/foot</th>
<th>Recovered (in)</th>
<th>Remarks</th>
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### Material

- **Light gray sandy gravel:**
  - 00.00:
    - Description: Light gray sandy gravel with clayey silt (loose, moist).
    - Remark: Drilled to orange-brown clayey fine to medium sand.
  - 5.00:
    - Description: Light gray sandy gravel with clayey silt (loose, moist).
    - Remark: Drilled to orange-brown clayey fine to medium sand.
  - 10.00:
    - Description: Light gray sandy gravel with clayey silt (loose, moist).
    - Remark: Drilled to orange-brown clayey fine to medium sand.
  - 15.00:
    - Description: Light gray sandy gravel with clayey silt (loose, moist).
    - Remark: Drilled to orange-brown clayey fine to medium sand.

### Notes:

1. FOR BOREHOLE KEY SEE DRAWING TLC-G-403.
2. FOR BOREHOLE LOCATIONS SEE DRAWING TLC-S-102.
3. THIS BOREHOLE LOG IS ONLY A PORTION OF A REPORT PREPARED BY GEOENGINEERS TOTEM LAKE CONNECTOR PHASE 2 GEOTECHNICAL ENGINEERING SERVICES DATED OCTOBER 2016.

**This drawing has been prepared for the Totem Lake Connector Project, COWI, GEOENGINEERS, their employees, subconsultants or agents accept no responsibility for any other use.**
Figure A-5

Log of Boring with Monitoring Well B-4

Project: "Totem Lake Connector"

Project Location: Kirkland, Washington

Project Number: 0231-090-00

Table A-1: Log of Boring with Monitoring Well B-4

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<th>DEPTH (feet)</th>
<th>CONTENT (%</th>
<th>MOISTURE</th>
<th>GRAPHIC LOG</th>
<th>WATER LEVEL</th>
<th>TESTING</th>
<th>SAMPLE NAME</th>
<th>COLLECTED SAMPLE</th>
<th>BLOWS/FOOT</th>
<th>RECOVERED (in)</th>
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NOTES:

1. For Borehole Key See Drawing TLC-G-400.
2. For Borehole Locations See Drawing TLC-S-5-102.

This Drawing Has Been Prepared For The Totem Lake Connector Project, Cowi, Geoengineers, Their Employees, Subconsultants Or Agents, Accept No Responsibility For Any Other Use.
**AL (LL = 45; PI = 14)**

Groundwater observed at 12½ at time of drilling.

Driller noted gravel at 27 feet.

Brown silty fine to medium sand (medium dense, moist).

Light gray lean clay with sand (stiff, moist).

Light brown silt with sand and occasional gravel (very stiff, wet).

Brown clayey fine to coarse sand with gravel (dense, wet).

Gray sandy silt (very stiff, wet).

Gray clay with sand and occasional gravel (stiff, wet).

Gray sandy clay with gravel (hard, wet).

**NOTES:**

1. For borehole key see drawing TLC-G-400.

2. For borehole locations see drawing TLC-S-102.

3. This borehole log is only a portion of a report prepared by Geoengineers TOTEM LAKE CONNECTOR PHASE 2 GEOTECHNICAL ENGINEERING SERVICES dated October 2018.

This drawing has been prepared for the Totem Lake Connector Project. COWI, GEOENGINEERS, their employees, subconsultants or agents accept no responsibility for any other use.
### Log of Boring B-13

**Project:** Totem Lake Connector  
**Project Location:** Kirkland, Washington  
**Project Number:** 0231-090-01

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**Notes:**
- 1. For borehole key see drawing TLC-G-400.
- 2. For borehole locations see drawing TLC-S-102.
- 3. This borehole log is only a portion of a report prepared by GeoEngineers. Totem Lake Connector Phase 2 Geotechnical Engineering Services" dated October 2018.

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### Log of Boring B-13 (continued)

**Project:** Totem Lake Connector  
**Project Location:** Kirkland, Washington  
**Project Number:** 0231-090-01

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</table>

**Notes:**
- 1. For borehole key see drawing TLC-G-400.
- 2. For borehole locations see drawing TLC-S-102.
- 3. This borehole log is only a portion of a report prepared by GeoEngineers. Totem Lake Connector Phase 2 Geotechnical Engineering Services" dated October 2018.

---

### Log of Boring B-13 (continued)

**Project:** Totem Lake Connector  
**Project Location:** Kirkland, Washington  
**Project Number:** 0231-090-01

<table>
<thead>
<tr>
<th>Blows/foot</th>
<th>Depth (feet)</th>
<th>Field Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recovered (in)</td>
<td>17</td>
<td>130</td>
</tr>
<tr>
<td>Elevation (feet)</td>
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<tr>
<td>Interval</td>
<td>10</td>
<td>135</td>
</tr>
<tr>
<td>Material</td>
<td>10</td>
<td>135</td>
</tr>
<tr>
<td>Remarks</td>
<td>10</td>
<td>135</td>
</tr>
</tbody>
</table>

**Notes:**
- 1. For borehole key see drawing TLC-G-400.
- 2. For borehole locations see drawing TLC-S-102.
- 3. This borehole log is only a portion of a report prepared by GeoEngineers. Totem Lake Connector Phase 2 Geotechnical Engineering Services" dated October 2018.
<table>
<thead>
<tr>
<th>Surface Elevation (ft)</th>
<th>Vertical Datum</th>
<th>Easting (X)</th>
<th>Northing (Y)</th>
<th>Start</th>
<th>End</th>
<th>Total</th>
<th>Depth (ft)</th>
<th>Logged By</th>
<th>Checked By</th>
<th>Hammer</th>
<th>Data Drilled</th>
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<tbody>
<tr>
<td>145</td>
<td>NAVD88</td>
<td>1309517.75</td>
<td>261256.19</td>
<td>2/2/2017</td>
<td>21.5 EF</td>
<td>HRP</td>
<td>Diedrich D-50 Track Rig</td>
<td>140 (lbs) / 30 (in) Drop</td>
<td>Collected Sample</td>
<td>Driller Drilling Method</td>
<td></td>
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</tbody>
</table>

**MATERIAL**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fine gravel with sand</td>
<td>moist</td>
</tr>
<tr>
<td>Gray silt with lenses of peat</td>
<td>hard</td>
</tr>
<tr>
<td>Gray silty fine sand</td>
<td>dense</td>
</tr>
<tr>
<td>Gray silt with sand</td>
<td>very stiff</td>
</tr>
<tr>
<td>Gray sandy silt</td>
<td>very stiff to hard</td>
</tr>
<tr>
<td>Gray sandy silt</td>
<td>hard</td>
</tr>
</tbody>
</table>

**NOTES:**

1. FOR BOREHOLE KEY SEE DRAWING TLC-G-400.
2. FOR BOREHOLE LOCATIONS SEE DRAWING TLC-S-102.
3. THIS BOREHOLE LOG IS ONLY A PORTION OF A REPORT PREPARED BY GEOENGINEERS "TOTEM LAKE CONNECTOR PHASE 2 GEOTECHNICAL ENGINEERING SERVICES" DATED OCTOBER 2018.

*This drawing has been prepared for the Totem Lake Connector Project, Cowi, Geoengineers, their employees, subconsultants or agents. Accept no responsibility for any other use.*
<table>
<thead>
<tr>
<th>Depth (feet)</th>
<th>Field Data</th>
<th>Material</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td></td>
<td></td>
<td>Gray silty fine to coarse sand with gravel (dense, moist) (fill)</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td>Gray sandy silt (hard, wet)</td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td>Brown silty fine to coarse gravel with sand (medium dense, moist) (fill)</td>
</tr>
<tr>
<td>31</td>
<td></td>
<td></td>
<td>Gray fine gravel with sand (medium dense, moist) (fill)</td>
</tr>
<tr>
<td>39</td>
<td></td>
<td></td>
<td>Water saturated with slight water present</td>
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<tr>
<td>50</td>
<td></td>
<td></td>
<td>Water saturated with slight water present</td>
</tr>
<tr>
<td>48</td>
<td></td>
<td></td>
<td>Water saturated with slight water present</td>
</tr>
</tbody>
</table>

**NOTES:**
1. FOR BOREHOLE KEY SEE DRAWING TLC-G-400.
2. FOR BOREHOLE LOCATIONS SEE DRAWING TLC-S-102.
3. THIS BOREHOLE LOG IS ONLY A PORTION OF A REPORT PREPARED BY GEOENGINEERS "TOTEM LAKE CONNECTOR PHASE 2 GEOTECHNICAL ENGINEERING SERVICES" DATED OCTOBER 2018.

THIS DRAWING HAS BEEN PREPARED FOR THE TOTEM LAKE CONNECTOR PROJECT. GEOENGINEERS, THEIR EMPLOYEES, SUBCONSULTANTS OR AGENTS ACCEPT NO RESPONSIBILITY FOR ANY OTHER USE.
### Log of Boring B-8 (continued)

<table>
<thead>
<tr>
<th>MATERIAL DESCRIPTION</th>
<th>REMARKS</th>
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</thead>
<tbody>
<tr>
<td>Gray sandy silt (hard, wet)</td>
<td>Becomes wet and hard</td>
</tr>
<tr>
<td>Gray sandy silt with gravel (very stiff, moist)</td>
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</tr>
<tr>
<td>Gray sandy lean clay with gravel (hard, wet)</td>
<td></td>
</tr>
<tr>
<td>Grayish brown silty fine to medium sand with gravel and roots</td>
<td>Orange-brown silty fine to medium sand with gravel and roots</td>
</tr>
<tr>
<td>Light brownish gray silty fine to medium sand with gravel and roots</td>
<td></td>
</tr>
<tr>
<td>Grayish brown silty fine to medium sand with gravel (medium dense, moist)</td>
<td></td>
</tr>
<tr>
<td>Brown silty fine to medium sand with gravel (medium dense, moist)</td>
<td></td>
</tr>
<tr>
<td>Coarse sand (medium dense, moist)</td>
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</tr>
<tr>
<td>Fine to medium sand with occasional gravel (medium dense, moist)</td>
<td></td>
</tr>
<tr>
<td>Gray sandy silt with gravel and roots (medium dense, moist)</td>
<td></td>
</tr>
<tr>
<td>Gray sandy lean clay with gravel (hard, wet)</td>
<td></td>
</tr>
<tr>
<td>Yellow sandy silt with gravel (hard, wet)</td>
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<tr>
<td>Notes:</td>
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### FIELD DATA

<table>
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<tr>
<th>INTERVAL</th>
<th>DEPTH (feet)</th>
<th>ELEVATION (feet)</th>
<th>CONTENT (%)</th>
<th>FINE</th>
<th>MOISTURE</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td></td>
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</table>

**NOTES:**

1. FOR BOREHOLE KEY SEE DRAWING TLC-G-400.
2. FOR BOREHOLE LOCATIONS SEE DRAWING TLC-S-102.
3. THIS BOREHOLE LOG IS ONLY A PORTION OF A REPORT PREPARED BY GEOENGINEERS "TOTEM LAKE CONNECTOR PHASE 2 GEOTECHNICAL ENGINEERING SERVICES" DATED OCTOBER 2018.

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Log of Boring B-9

Project: Totem Lake Connector
Project Location: Kirkland, Washington
Project Number: 0231-090-01

Figure A-10
Sheet 1 of 2

FIELD DATA

MATERIAL DESCRIPTION

REMARKS

11. Gray fine to coarse sand (very dense, wet)

SA (MC = 11%; %F = 41%)

12. Gray sandy silt (hard, wet)

SM (MC = 27%; LL = 52; PI = 165)

13. Grayish brown silty fine to medium sand

with gravel (very dense, wet)

ML = 25%

14. Gray fine to medium sand

with gravel (dense, moist)

ML = 65%

15. Gray fine to medium sand

with gravel (medium dense, moist)

ML = 45%

16. Gray fine to medium sand

with gravel (very dense, wet)

ML = 37%

17. Gray silty fine to medium sand

with silt and gravel (very dense, wet)

ML = 30%

18. Light gray silt (stiff, wet)

CA (MC = 31%; LL = 45; PI = 615)

19. Dark gray and brown sandy silt

with silt and gravel (very dense, wet)

ML = 44%

NOTES:

1. FOR BOREHOLE KEY SEE DRAWING TLC-G-400.

2. FOR BOREHOLE LOCATIONS SEE DRAWING TLC-S-1 02.

3. THIS BOREHOLE LOG IS ONLY A PORTION OF A REPORT PREPARED BY GEOENGINEERS "TOTEM LAKE CONNECTOR PHASE 2 GEOTECHNICAL ENGINEERING SERVICES" DATED OCTOBER 2018.

THIS DRAWING HAS BEEN PREPARED FOR THE TOTEM LAKE CONNECTOR PROJECT CONSTRUCTION, GEOENGINEERS, THEIR EMPLOYEES, SUBCONSULTANTS OR AGENTS ACCEPT NO RESPONSIBILITY FOR ANY OTHER USE.

CITY OF KIRKLAND

DEPARTMENT OF PUBLIC WORKS

125 FIFTH AVENUE KIRKLAND, WA 98033

(425) 587-3100 www.kirklandwa.gov

APPROVED BY:

COWI GEOENGINEERS

DATE: 3/13/18

PATH: P:\0\0231090\GINT\023109001.GPJ

DBLibrary/Library: GEOENGINEERS_DF_STD_US_JUNE_2017.GLB

GEOTECHNICAL BOREHOLE 9

APPROVED BY:

COWI GEOENGINEERS

DATE: 3/13/18

PATH: P:\0\0231090\GINT\023109001.GPJ

DBLibrary/Library: GEOENGINEERS_DF_STD_US_JUNE_2017.GLB
Log of Monitoring Well B-10 (continued)

---

**NOTES:**

1. FOR BOREHOLE KEY SEE DRAWING TLC-G-400.
2. FOR BOREHOLE LOCATIONS SEE DRAWING TLC-S-102.
3. THIS BOREHOLE LOG IS ONLY A PORTION OF "TITON LAKE CONNECTOR PHASE 2 GEOTECHNICAL ENGINEERING SERVICES" DATED OCTOBER 2018.

THIS DRAWING HAS BEEN PREPARED FOR THE TOTON LAKE CONNECTOR PROJECT. COWI, GEONEERS, THEIR EMPLOYEES, SUBCONSULTANTS OR AGENTS ACCEPT NO RESPONSIBILITY FOR ANY OTHER USE.
Log of Boring B-11

Project Location: Kirkland, Washington

Sample Name | Blows/foot | Recovered (in) | Interval | Depth (feet)
-------------|-----------|----------------|----------|-------------

REMARKS

NOTES:
1. FOR BOREHOLE KEY SEE DRAWING TLC-G-400.
2. FOR BOREHOLE LOCATIONS SEE DRAWING TLC-G-402.
3. THIS BOREHOLE LOG IS ONLY A PORTION OF A REPORT PREPARED BY GEOENGINEERS "TOMT LAKE CONNECTOR PHASE 2 GEOTECHNICAL ENGINEERING SERVICES" DATED OCTOBER 2018.
Log of Boring B-12

Project: Totem Lake Connector
Project Location: Kirkland, Washington
Project Number: 0231-090-01
Figure A-13 Sheet 1 of 2

Log of Boring B-12 (continued)

Project: Totem Lake Connector
Project Location: Kirkland, Washington
Project Number: 0231-090-01
Figure A-13 Sheet 2 of 2

FIELD DATA

ELEVATION (feet)  28  24  18  12  8  4  0
INTERVAL (in.)  276  276  276  276  276  276  276
REMARKS

FIELD DATA

ELEVATION (feet)  28  24  18  12  8  4  0
INTERVAL (in.)  276  276  276  276  276  276  276
REMARKS

NOTES:
1. FOR BOREHOLE KEY SEE DRAWING TLC-G-400.
2. FOR BOREHOLE LOCATIONS SEE DRAWING TLC-G-102.
3. THIS BOREHOLE LOG IS ONLY A PORTION OF A REPORT PREPARED BY GEOENGINEERS "TOTEM LAKE CONNECTOR PHASE 2 GEOTECHNICAL ENGINEERING SERVICES" DATED OCTOBER 2018.

THIS DRAWING HAS BEEN PREPARED FOR THE TOTEM LAKE CONNECTOR PROJECT. COWI, GEOENGINEERS, THEIR EMPLOYEES, SUBCONSULTANTS OR AGENTS ACCEPT NO RESPONSIBILITY FOR ANY OTHER USE.
### Log of Boring B-14 (continued)

**DESCRIPTION**

<table>
<thead>
<tr>
<th>INTERVAL</th>
<th>DEPTH (feet)</th>
<th>MATERIAL</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0 - 2.0</td>
<td>11.0 - 13.0</td>
<td>Gray fine to medium sand with gravel (very stiff, wet)</td>
<td>Surface Blakey sand intercepted.</td>
</tr>
<tr>
<td>2.0 - 3.0</td>
<td>13.0 - 15.0</td>
<td>Gray fine to medium sand</td>
<td>Driller added mud to borehole</td>
</tr>
<tr>
<td>3.0 - 4.0</td>
<td>15.0 - 17.0</td>
<td>Gray fine to medium sand with gravel (loose to medium dense, moist)</td>
<td>Occasional gravel (stiff to very stiff, wet)</td>
</tr>
<tr>
<td>4.0 - 5.0</td>
<td>17.0 - 19.0</td>
<td>Gray fine to medium sand with gravel</td>
<td>Occasional gravel (very dense, wet)</td>
</tr>
<tr>
<td>5.0 - 6.0</td>
<td>19.0 - 21.0</td>
<td>Orange-brown clayey fine to medium sand</td>
<td>Becomes wet</td>
</tr>
<tr>
<td>6.0 - 7.0</td>
<td>21.0 - 23.0</td>
<td>Brown fine to medium sand with gravel</td>
<td>ML (MC = 36%; LL = 42; PI = 46)</td>
</tr>
<tr>
<td>7.0 - 8.0</td>
<td>23.0 - 25.0</td>
<td>Gray fine to medium sand</td>
<td>AL (MC = 36%; LL = 42; PI = 46)</td>
</tr>
<tr>
<td>8.0 - 9.0</td>
<td>25.0 - 27.0</td>
<td>Gray silt with sand and gravel</td>
<td>AL (MC = 36%; LL = 42; PI = 46)</td>
</tr>
<tr>
<td>9.0 - 10.0</td>
<td>27.0 - 29.0</td>
<td>Gray fine to medium sand</td>
<td>Gray fine to medium sand with gravel (very stiff, wet)</td>
</tr>
<tr>
<td>10.0 - 11.0</td>
<td>29.0 - 31.0</td>
<td>Gray fine to medium sand with gravel</td>
<td>Gray fine to medium sand with gravel (very stiff, wet)</td>
</tr>
</tbody>
</table>

**FIELD DATA**

<table>
<thead>
<tr>
<th>INTERVAL</th>
<th>DEPTH (feet)</th>
<th>Blows/foot</th>
<th>Recovered (in)</th>
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<tr>
<td>0.0 - 2.0</td>
<td>11.0 - 13.0</td>
<td>100</td>
<td>5</td>
</tr>
<tr>
<td>2.0 - 3.0</td>
<td>13.0 - 15.0</td>
<td>100</td>
<td>5</td>
</tr>
<tr>
<td>3.0 - 4.0</td>
<td>15.0 - 17.0</td>
<td>100</td>
<td>5</td>
</tr>
<tr>
<td>4.0 - 5.0</td>
<td>17.0 - 19.0</td>
<td>100</td>
<td>5</td>
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<td>5.0 - 6.0</td>
<td>19.0 - 21.0</td>
<td>100</td>
<td>5</td>
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<td>6.0 - 7.0</td>
<td>21.0 - 23.0</td>
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<td>10.0 - 11.0</td>
<td>29.0 - 31.0</td>
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</table>

**NOTES**

- Inside core container, took sample with water evident in core container
- Phone interview to Geotechnical, 10/16/17, 10:15 a.m.

**LOCATION**

- Project Location: Totem Lake Connector

**PROJECT**

- Project Number: 0231-090-01

**DATE**

- Date: 3/13/18

**PATH**

- Path: P:\0\0231090\GINT\023109001.GPJ

**DBLibrary/Library**

- DBLibrary/Library: GEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GEI8_ENVIRONMENTAL_STANDARD_NO_GW

---

**Figure A-15**

Kirkland, Washington

**Log of Boring B-14**

**DESCRIPTION**

- Log of Boring B-14 (continued)

**FIELD DATA**

- FIELD DATA

**NOTES**

- Inside core container, took sample with water evident in core container
- Phone interview to Geotechnical, 10/16/17, 10:15 a.m.
Log of Boring B-15

<table>
<thead>
<tr>
<th>Depth (feet)</th>
<th>Blows/foot</th>
<th>Recovered (in)</th>
<th>Interval</th>
<th>Content (% Fines)</th>
<th>Classification</th>
<th>Moisture</th>
<th>Remarks</th>
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</tbody>
</table>

Notes:
1. FOR BOREHOLE KEY SEE DRAWING TLC-G-400.
2. FOR BOREHOLE LOCATIONS SEE DRAWING TLC-S-102.
3. THIS BOREHOLE LOG IS ONLY A PORTION OF A REPORT PREPARED BY GEOENGINEERS TOTEM LAKE CONNECTOR PHASE 3 GEOTECHNICAL ENGINEERING SERVICES" DATED OCTOBER 2018.
Log of Boring B-17

<table>
<thead>
<tr>
<th>Interval</th>
<th>Depth (feet)</th>
<th>Elevation (feet)</th>
<th>Blows/foot</th>
<th>Recovered (in)</th>
<th>Class Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1</td>
<td>0</td>
<td>4045</td>
<td>45</td>
<td>19</td>
<td>MC</td>
<td>Gray silt with sand and gravel (very dense, wet)</td>
</tr>
<tr>
<td>1-2</td>
<td>1</td>
<td>4160</td>
<td>40</td>
<td>85</td>
<td>MC</td>
<td>Gray lean clay with occasional gravel (very stiff, wet)</td>
</tr>
<tr>
<td>2-3</td>
<td>2</td>
<td>4276</td>
<td>35</td>
<td>55</td>
<td>MC</td>
<td>Light brown fine to coarse sand with gravel (very loose, wet)</td>
</tr>
<tr>
<td>3-5</td>
<td>3</td>
<td>4392</td>
<td>30</td>
<td>30</td>
<td>SP</td>
<td>Gray silt with sand and lenses of silt (medium dense, wet)</td>
</tr>
<tr>
<td>5-10</td>
<td>5</td>
<td>4432</td>
<td>25</td>
<td>25</td>
<td>MC</td>
<td>Gray fine sand with occasional gravel (loose, wet)</td>
</tr>
</tbody>
</table>

REMARKS:
- Driller added water to mud pad at time of drilling.
- 6 inches of heave
- 24 inches of heave

FIELD DATA
- Project: Totem Lake Connector
- Location: Kirkland, Washington
- Driller: Geologic Drill Exploration, Inc.
- Drilling Method: Geotechnical Drill/Exploration

Graphic Log:
- Scale: 1" = 100 ft
- Datum: NAVD88
- Vertical Datum: NAVD88
- Horizontal Datum: NAD83
- Survey Methods: Geoscan
- Survey by Alliance Geomatics
- Horizontal approximated based on survey by Alliance Geomatics, vertical approximated based on survey by Alliance Geomatics

Figure A-16
Sheet 1 of 3

NOTES:
1. For borehole key see drawing TLC-G-400.
2. For borehole locations see drawing TLC-S-102.
3. This borehole log is only a portion of a report prepared by GeoEngineers' Totem Lake Connector Phase 3 Geotechnical Engineering Services dated October 2019.

GeoEngineers
Project Location: Kirkland, Washington
Project Number: 0231-090-01

City of Kirkland
Department of Public Works
125 Fifth Avenue, Kirkland, WA 98033
425-587-3800 www.kirklandwa.gov

Checked by: B. P. Sand 2019/12/06
Date: 11/28/18 Path: P:\0\0231090\GINT\023109001.GPJ DBLibrary/Library: GEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GEI8_GEOTECH_STANDARD_%F_NO_GW

Sheet 2 of 3

Log of Boring B-17 (continued)

Log of Boring B-17

Log of Boring B-17 (continued)
Log of Boring B-18

**Notes:**

1. **FOR BOREHOLE KEY SEE DRAWING TLC-G-402.**
2. **FOR BOREHOLE LOCATIONS SEE DRAWING TLC-S-102.**
3. **THIS BOREHOLE LOG IS ONLY A PORTION OF A REPORT PREPARED BY GEOENGINEERS' TOTEM LAKE CONNECTOR PHASE 2 GEOTECHNICAL ENGINEERING SERVICES" DATED OCTOBER 2019.**

---

**Log of Boring B-18 (continued)**

---

**Log of Boring B-18 (continued)**

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**NOTES:**

1. **FOR BOREHOLE KEY SEE DRAWING TLC-G-402.**
2. **FOR BOREHOLE LOCATIONS SEE DRAWING TLC-S-102.**
3. **THIS BOREHOLE LOG IS ONLY A PORTION OF A REPORT PREPARED BY GEOENGINEERS' TOTEM LAKE CONNECTOR PHASE 2 GEOTECHNICAL ENGINEERING SERVICES" DATED OCTOBER 2019.**
**Log of Monitoring Well B-19**

**Log of Monitoring Well B-19 (continued)**

**NOTES:**
1. FOR BOREHOLE KEY SEE DRAWING TLC-G-400.
2. FOR BOREHOLE LOCATIONS SEE DRAWING TLC-S-102.
3. THIS BOREHOLE LOG IS ONLY A PORTION OF PMC 217.

**WELL LOG**

**FIELD DATA**

**MATERIAL DESCRIPTION**

**REPORT**

3. THIS BOREHOLE LOG IS ONLY A PORTION OF PMC 217.

**PROJECT:** Totem Lake Connector

**Project Location:** Kirkland, Washington

**Project Number:** 0231-090-01

**Figure A-20** Sheet 1 of 2

**FIELD DATA**

**MATERIAL DESCRIPTION**

**WELL LOG**

**RESEARCH**

**NOTE:**

3. THIS BOREHOLE LOG IS ONLY A PORTION OF PMC 217.

**PROJECT:** Totem Lake Connector

**Project Location:** Kirkland, Washington

**Project Number:** 0231-090-01

**Figure A-20** Sheet 1 of 2

**FIELD DATA**

**MATERIAL DESCRIPTION**

**WELL LOG**
### Material Description

<table>
<thead>
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<th>Sample Name</th>
<th>Collected Sample</th>
<th>Blows/foot</th>
<th>Recovered (in)</th>
<th>Interval</th>
<th>Depth (feet)</th>
<th>Elevation (feet)</th>
<th>Recorded By</th>
<th>Log Borehole</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>12/9/2017</td>
</tr>
</tbody>
</table>

### Remarks

1. FOR BOREHOLE KEY SEE DRAWING TLC-G-400.
2. FOR BOREHOLE LOCATIONS SEE DRAWING TLC-S-102.
3. THIS BOREHOLE LOG IS ONLY A PORTION OF A REPORT PREPARED BY GEOENGINEERS' TOTEM LAKE CONNECTOR PHASE 2 GEOTECHNICAL ENGINEERING SERVICES DATED OCTOBER 2019.

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**Geotechnical Borehole 20**

**GeoEngineers**

Project Location: Kirkland, Washington

*Figure A-21 Sheet 1 of 3*