

# Borehole Number: BH-A

Project Name: Public Works

Project Number: 52918-100

Location: 940 Alder, Campbell River

Client: Public Works

Logged By: BH

| SUBSURFACE PROFILE |           |   | SAMPLE |             | Recovery (cm) | Lab | Headspace<br>ppm<br>25 50 75 | Well Completion Details | Comments                   |
|--------------------|-----------|---|--------|-------------|---------------|-----|------------------------------|-------------------------|----------------------------|
| Depth              | Soil Type | Soil Description  | Number | Sample Type |               |     |                              |                         |                            |
| 0                  |           | Ground Surface  |        |             |               |     |                              |                         |                            |
| 0                  |           | <i>Sand (Fill)</i>  |        |             |               |     |                              |                         |                            |
| 1                  |           | Coarse grained, dry to moist, brown, very loose, well sorted, trace gravel. | SS1    |             | 35            |     | 0                            |                         | No odor                    |
| 2                  |           |   |        |             |               |     | 10                           |                         | No odor                    |
| 3                  |           | <i>Sand</i>   |        |             |               |     |                              |                         |                            |
| 4                  |           | Coarse grained, dry to moist, very loose, well sorted, trace gravel.        | SS2    |             | 33            |     |                              |                         | No odor                    |
| 5                  |           |   |        |             |               |     |                              |                         |                            |
| 6                  |           | <i>Sand</i>   |        |             |               |     |                              |                         |                            |
| 7                  |           | Coarse grained, moist, dark brown, very loose, well sorted, trace gravel.   | SS3    |             | 23            |     | 60                           |                         | No odor                    |
| 8                  |           |   |        |             |               |     |                              |                         |                            |
| 9                  |           | <i>Sand</i>   |        |             |               |     |                              |                         |                            |
| 10                 |           | Coarse grained, moist, dark brown, very loose, well sorted, trace gravel.   | SS4    |             | 43            |     | >100                         |                         | Some hydrocarbon odor      |
| 11                 |           |   |        |             |               |     |                              |                         |                            |
| 12                 |           | <i>Sand</i>   |        |             |               |     |                              |                         |                            |
| 13                 |           | Very wet, light-dark brown, loose, well sorted, trace gravel.               | SS5    |             | 43            |     | 50                           |                         | Moderate hydrocarbon odour |
| 14                 |           |   |        |             |               |     |                              |                         |                            |
| 15                 |           | <i>Sand</i>   |        |             |               |     |                              |                         |                            |
| 16                 |           | Very wet, light brown, loose, well sorted.                                  | SS6    |             | 48            |     |                              |                         | No odor                    |
| 17                 |           |   |        |             |               |     |                              |                         |                            |
| 18                 |           | <i>Sand</i>   |        |             |               |     |                              |                         |                            |
| 19                 |           | Very wet, light brown, loose, well sorted, no clasts.                       | SS7    |             | 58            |     | 25                           |                         | No odor                    |
| 20                 |           |   |        |             |               |     |                              |                         |                            |
| 21                 |           | <i>Sand</i>   |        |             |               |     |                              |                         |                            |
| 22                 |           | Very wet, light brown - red, loose, well sorted, no clasts.                 | SS8    |             | 58            | Yes | 100                          |                         | No odor                    |
| 23                 |           |   |        |             |               |     |                              |                         |                            |
| 24                 |           | <i>Sand</i>   |        |             |               |     |                              |                         |                            |
| 25                 |           | Very wet, light brown - red, loose, well sorted, no clasts.                 |        |             |               |     |                              |                         | No odor                    |
| 26                 |           |   |        |             |               |     |                              |                         |                            |
| 27                 |           | End of Borehole   |        |             |               |     |                              |                         |                            |

Drill Method: Hollow Stem, Split Spoon.

Drill Date: January 16, 2002

Completion Depth: 6.10 m

Earth Tech (Canada) Inc.  
#203, 4430 Chatterton Way  
Victoria, BC V8X 5J2  
Phone: (250) 744-2100

Driller: Drillwell Enterprises Ltd.

Reviewed By: BH

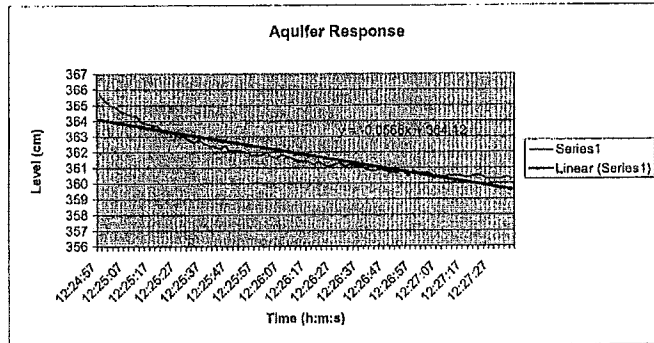
Instrument type : LT-Levellogger 07256  
 Instrument number : SO#35284  
 Location : Earth Tech (Canada)  
 Sample made : T

BH-A  
 Slug Test #2

Channel 1 : LEVEL  
 Reference : 0.0 cm  
 Range : 500.0 cm  
 Master level : 0.0 cm

Channel 2 : TEMPERATURE  
 Reference : -20.00 deg C  
 Range : 100.00 deg C

| No. | Date      | Time     | Channel 1 |
|-----|-----------|----------|-----------|
| 121 | 1/18/2002 | 12:24:57 | 365.7     |
| 122 | 1/18/2002 | 12:24:59 | 365.3     |
| 123 | 1/18/2002 | 12:25:01 | 365       |
| 124 | 1/18/2002 | 12:25:03 | 364.9     |
| 125 | 1/18/2002 | 12:25:05 | 364.6     |
| 126 | 1/18/2002 | 12:25:07 | 364.5     |
| 127 | 1/18/2002 | 12:25:09 | 364.3     |
| 128 | 1/18/2002 | 12:25:11 | 364.3     |
| 129 | 1/18/2002 | 12:25:13 | 363.9     |
| 130 | 1/18/2002 | 12:25:15 | 363.8     |
| 131 | 1/18/2002 | 12:25:17 | 363.7     |
| 132 | 1/18/2002 | 12:25:19 | 363.7     |
| 133 | 1/18/2002 | 12:25:21 | 363.4     |
| 134 | 1/18/2002 | 12:25:23 | 363.3     |
| 135 | 1/18/2002 | 12:25:25 | 363.2     |
| 136 | 1/18/2002 | 12:25:27 | 363       |
| 137 | 1/18/2002 | 12:25:29 | 363       |
| 138 | 1/18/2002 | 12:25:31 | 362.8     |
| 139 | 1/18/2002 | 12:25:33 | 362.6     |
| 140 | 1/18/2002 | 12:25:35 | 362.8     |
| 141 | 1/18/2002 | 12:25:37 | 362.6     |
| 142 | 1/18/2002 | 12:25:39 | 362.4     |
| 143 | 1/18/2002 | 12:25:41 | 362.4     |
| 144 | 1/18/2002 | 12:25:43 | 362.2     |
| 145 | 1/18/2002 | 12:25:45 | 362.4     |
| 146 | 1/18/2002 | 12:25:47 | 362.1     |
| 147 | 1/18/2002 | 12:25:49 | 362.1     |
| 148 | 1/18/2002 | 12:25:51 | 362.1     |
| 149 | 1/18/2002 | 12:25:53 | 362       |
| 150 | 1/18/2002 | 12:25:55 | 361.8     |
| 151 | 1/18/2002 | 12:25:57 | 361.8     |
| 152 | 1/18/2002 | 12:25:59 | 361.8     |
| 153 | 1/18/2002 | 12:26:01 | 362       |
| 154 | 1/18/2002 | 12:26:03 | 361.7     |
| 155 | 1/18/2002 | 12:26:05 | 361.6     |
| 156 | 1/18/2002 | 12:26:07 | 361.8     |
| 157 | 1/18/2002 | 12:26:09 | 361.7     |
| 158 | 1/18/2002 | 12:26:11 | 361.6     |
| 159 | 1/18/2002 | 12:26:13 | 361.4     |
| 160 | 1/18/2002 | 12:26:15 | 361.4     |
| 161 | 1/18/2002 | 12:26:17 | 361.4     |
| 162 | 1/18/2002 | 12:26:19 | 361.2     |
| 163 | 1/18/2002 | 12:26:21 | 361.4     |
| 164 | 1/18/2002 | 12:26:23 | 361.2     |
| 165 | 1/18/2002 | 12:26:25 | 361.1     |
| 166 | 1/18/2002 | 12:26:27 | 361.2     |
| 167 | 1/18/2002 | 12:26:29 | 361.3     |
| 168 | 1/18/2002 | 12:26:31 | 361.1     |
| 169 | 1/18/2002 | 12:26:33 | 361.2     |
| 170 | 1/18/2002 | 12:26:35 | 361.1     |
| 171 | 1/18/2002 | 12:26:37 | 361.1     |
| 172 | 1/18/2002 | 12:26:39 | 360.9     |
| 173 | 1/18/2002 | 12:26:41 | 360.8     |
| 174 | 1/18/2002 | 12:26:43 | 360.8     |
| 175 | 1/18/2002 | 12:26:45 | 360.9     |
| 176 | 1/18/2002 | 12:26:47 | 360.8     |
| 177 | 1/18/2002 | 12:26:49 | 360.7     |
| 178 | 1/18/2002 | 12:26:51 | 360.7     |
| 179 | 1/18/2002 | 12:26:53 | 360.8     |
| 180 | 1/18/2002 | 12:26:55 | 360.5     |
| 181 | 1/18/2002 | 12:26:57 | 360.8     |
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| 185 | 1/18/2002 | 12:27:05 | 360.5     |
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| 194 | 1/18/2002 | 12:27:23 | 360.5     |
| 195 | 1/18/2002 | 12:27:25 | 360.3     |
| 196 | 1/18/2002 | 12:27:27 | 360.3     |
| 197 | 1/18/2002 | 12:27:29 | 360.3     |
| 198 | 1/18/2002 | 12:27:31 | 360.3     |
| 199 | 1/18/2002 | 12:27:33 | 360.4     |
| 200 | 1/18/2002 | 12:27:35 | 360.3     |



Static Water Level: 357.8 cm  
 Displacement: 6.52 cm  
 37% of Displacement: 2.608 cm  
 Water Level @ 37%: 360.208 cm  
 Time to reach 37%: 89.12 sec

Hvorslev Method:  
 $K = r^2 \ln(L/R) / 2L T_{0.37}$

where:

K = hydraulic conductivity  
 r = radius of well casing  
 R = radius of screen plus packing  
 L = Length of well screen plus filter packing  
 $T_{0.37}$  = time to reach 37% of  $H_0$

r: 0.02505 m  
 $T_{0.37}$ : 2:47:55 sec  
 R: 0.1015 m  
 L: 4.8398 m  
 K: 0.000 m/s

**K: 3.62E-04 cm/s** Fine Grained, Clean Sand or Silty Sand.