



**SNC-LAVALIN**  
Environment

Client :  
City Of Surrey Engineering Department

**Borehole No. : 09-7S**

Location :  
2016 176th Street & 17631 20th Avenue, Surrey, BC

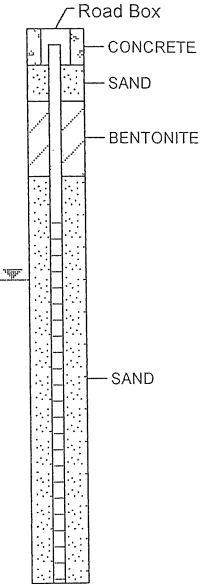
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Drilling Contractor: Uniwide Drilling Co. Ltd.  
Drilling Method : Solid Stem Auger  
Borehole Dia. (m) : 0.15  
Pipe/Slotted Pipe Dia. (m): 0.05, 0.05

Date Monitored : 2009 09 15  
Ground Surf Elev. (m) : 29.465  
Top of Casing Elev. (m) : 29.343

Project Number : 133953  
Borehole Logged By : MAH  
Date Drilled : 2009 09 02  
Log Typed By : AG

| Depth in Metres | Drilling Legend  | Water/NAPL Levels  | Stratigraphy Plot | Sample Interval/<br>Core Run | Sample Number | Blow Count | % Recovery | Soil Vapour<br>(ppm) | <input type="checkbox"/> Reading within indicated scale<br><input checked="" type="checkbox"/> Reading outside indicated scale | <input type="checkbox"/> Solid PVC<br><input type="checkbox"/> Slotted PVC |
|-----------------|--|--|-------------------|------------------------------|---------------|------------|------------|----------------------|--|--|
|                 | Auger Flight   | <input type="checkbox"/> Water Level 1<br><input type="checkbox"/> Water Level 2<br><input type="checkbox"/> NAPL<br><input type="checkbox"/> NAPL |                   |                              |               |            |            |                      |  |  |
| 0               | ASPHALT.   |  |                   |                              |               |            |            |                      |  |  |
| 0 - 1           | SAND and GRAVEL (FILL), medium to coarse grained sand, fine to coarse gravel, subrounded to angular, trace silt, orange-brown, dense, moist. |  |                   |                              |               |            |            |                      |  |  |
| 1 - 2.7         | SILT, some fine grained sand, trace medium to coarse grained sand, trace fine gravel, subangular, brown with grey inclusions, stiff, damp.   |  |                   |                              |               |            |            |                      |  |  |
| 2.7 - 4.6       | Below 2.7 m - some clay, trace fine grained sand, no medium to coarse grained sand, brown. Moisture content increases with depth.            |  |                   |                              |               |            |            |                      |  |  |
| 4.6             | End of borehole at 4.6 m.  |  |                   |                              |               |            |            |                      |  |  |



**Notes:**

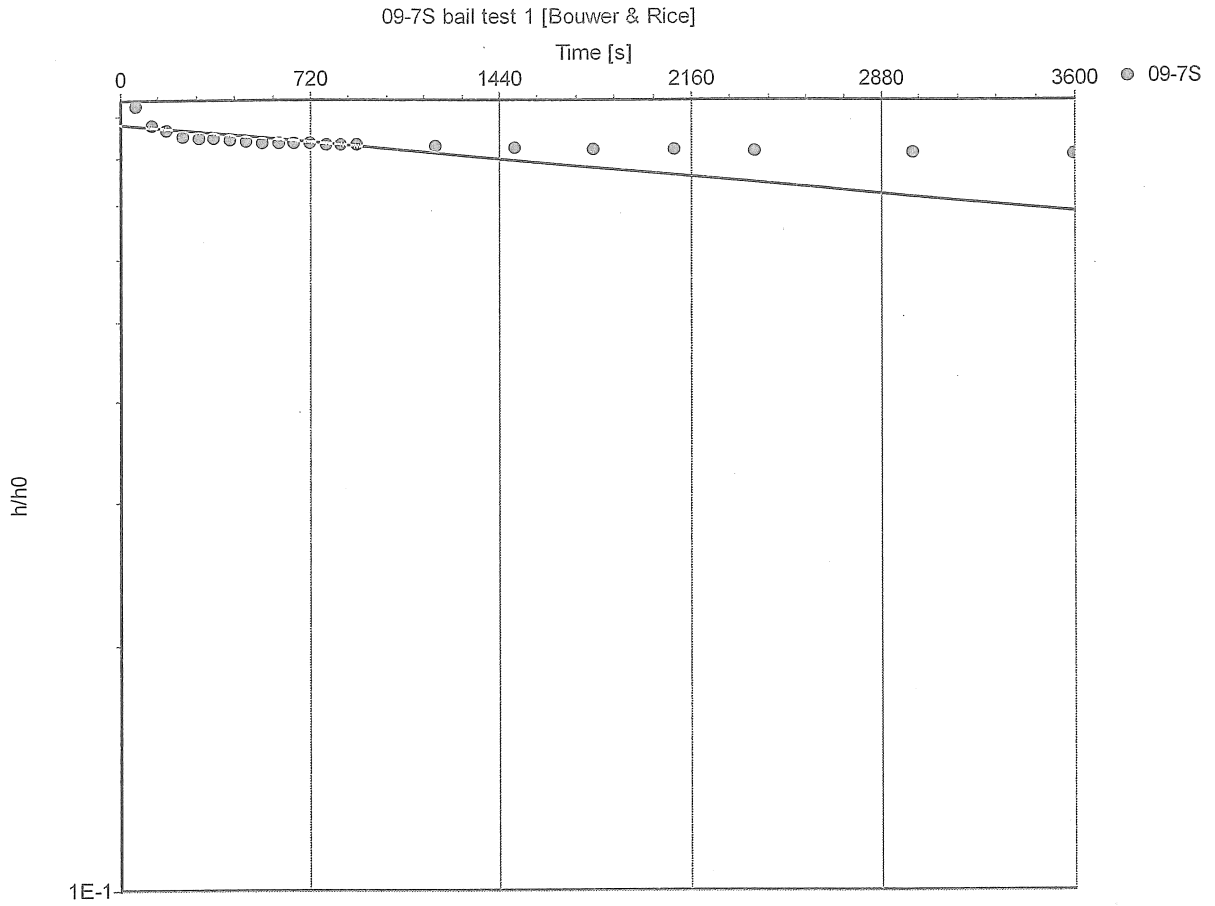


**Slug Test Analysis Report**

Project: Surrey Firehall #14

Number: 133953

Client: City of Surrey, BC



Slug Test: 09-7S bail test 1

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 1.76E-8 [m/s]

Test parameters:

|                |           |                           |       |
|----------------|-----------|---------------------------|-------|
| Test Well:     | 09-7S     | Aquifer Thickness:        | 4 [m] |
| Casing radius: | 0.025 [m] | Gravel Pack Porosity (%): | 25    |
| Screen length: | 3 [m]     |                           |       |
| Boring radius: | 0.075 [m] |                           |       |
| r(eff):        | 0.043 [m] |                           |       |

Comments:

r (eff) not used

Evaluated by: ICN

Evaluation Date: 10/6/2009