



Project: Wells G & H Remedial Investigation  
 TDD No.: FI-8409-01  
 Sheet: 1 of 2  
 Hole No.: 567

Location: Directly across Washington St. East Cummings/From 200 W. Cummings Park  
 Angle from Horiz.: Vertical

Began: 5 Dec 84  
 Completed: 10 DEC 85  
 Driller: NEBC  
 Drill Make & Model: Mobile B-47  
 Hole Dia.: 3.5"  
 Overburden (ft): 54  
 Rock (ft): 21  
 Total Depth: 75'

Core Recovery (ft): 20  
 Core Box: 2  
 Samples: 7  
 El. Top of Casing: S67S 83.23, S67M 83.28, S67D 83.35  
 Ground El.: S67S 83.23, S67M 83.28, S67D 83.35  
 Depth to Top of Rock: 54'

Sample Hammer Weight/Fall: 140 lbs/30"  
 Casing Solid Screen: Sch 80 PVC 1.5" I.D. 0.010 slot  
 NUS Inspector: Baldyga

| Depth | Sample No. | ROCK          |     | SOIL         |                     | Well Construction | Stratum Description   | Notes |
|-------|------------|---------------|-----|--------------|---------------------|-------------------|---|-------|
|       |            | Core/Rec (in) | RQD | Pen/Rec (in) | Depth Interval (ft) |                   |   |       |
|       | 01         |               |     | 18/18        | 0-1.5               | 12/11/12/15       | Cover Fill-Sandy loam underlain by coarse Gravel  |       |
| 5     | 02         |               |     | 17/11        | 5-6.25              | 100/110.5         | BR F/M SAND, LI M Gravel, LI Silt   |       |
| 10    | 03         |               |     | 18/18        | 10-11.5             | 43/69/92          | BR M/C SAND, LI M/C Gravel, TR Silt, very compact, Cobbles at 12.7'   |       |
| 15    | 04         |               |     | 24/12        | 15-17               | 47/52/30/21       | Differentiated spoon sample. 3" GR-BN C SAND, LI M Gravel, TR Clay 2" clayey SILT 1" C GRAVEL very angular 6" GREEN BN C SAND C SAND, SO SILT and F Gravel 2" layer highly angular GRAVEL |       |
| 20    | 05         |               |     | 12/12        | 20-21               | 106/100/R         | S67S Top of Ottawa SAND 22'<br>S67S Top of screen 24'   |       |
| 25    | 06         |               |     | 14/14        | 25-26.2             | 41/52/120.3       | Green-GR SILT and F SAND, SO C Gravel   |       |
| 30    | 07         |               |     | 14/0         | 30-31.2             | 120/100/100.5     | No recovery<br>S67M Top of Ottawa Sand 31'<br>S67M Top of screen 33'<br>S67S Bottom of screen 34'   |       |

| GRANULAR SOILS |          | PROPORTIONS |        | ABBREVIATIONS      |  |
|----------------|----------|-------------|--------|--------------------|--|
| Blows/Ft       | Density  | USEN        |        |                    |  |
| 0-4            | V. Loose | Trace (TR)  | 0-10%  | F-Fine             |  |
| 4-10           | Loose    | Little (LI) | 10-20% | M-Medium           |  |
| 10-30          | M. Dense | Some (SO)   | 20-35% | C-Course           |  |
| 30-50          | Dense    | And         | 35-50% | F/M-Fine to Medium |  |
| >50            | V. Dense |             |        | F/C-Fine to Course |  |
|                |          |             |        | V-Very             |  |
|                |          |             |        | GR-Gray            |  |
|                |          |             |        | BN-Brown           |  |
|                |          |             |        | YEL-Yellow         |  |

1. S67S sealed with 2 foot thick layer of bentonite pellets from 18' to 22', Natural backfill to GS.  
 2. S67M sealed with cement/bentonite slurry from 31' to GS.



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 Sheet: 2 of 2  
 Hole No.: S67  
 Location: East Cummings/from 200 W. Cummings Park

| Depth | ROCK       |               |     | SOIL         |                     | Well Construction | Stratum Description   | Notes |
|-------|------------|---------------|-----|--------------|---------------------|-------------------|---|-------|
|       | Sample No. | Core/Rec (in) | RQD | Pen/Rec (in) | Depth Interval (ft) |                   |   |       |
|       |            |               |     | 0/0          | 35                  | 100.R             |   |       |
| 40    |            |               |     |              |                     |                   | No recovery. Refusal at 35'- boulder                              |       |
|       |            |               |     |              |                     |                   | Roller bitted to 45'  |       |
|       |            |               |     |              |                     |                   | S67M Bottom of Screen 43'   |       |
| 45    |            |               |     | 1/0          | 45                  | 130.1             | No recovery   |       |
|       |            |               |     |              |                     |                   |   |       |
| 50    |            |               |     | 4/0          | 50                  | 140.4             |   |       |
|       |            |               |     |              |                     | R                 | Basal Till Green-GR CLAY and Silt; SO C angular Gravel            |       |
| 55    |            | 60/60         |     |              |                     |                   | Roller bitted 1' into bedrock 54'- 55' coring begins at 55'       |       |
|       |            |               |     |              |                     |                   | Highly fractured Salem Gabbrodiorite w/inclusions of Granodiorite |       |
| 60    |            | 60/60         |     |              |                     |                   | Becoming more ganitic and competent w/depth                       |       |
|       |            |               |     |              |                     |                   | S67D Top of Ottawa Sand 58'                                       |       |
|       |            |               |     |              |                     |                   | S67D Top of screen 60'  |       |
| 65    |            | 60/60         |     |              |                     |                   |   |       |
|       |            |               |     |              |                     |                   |   |       |
| 70    |            |               |     |              |                     |                   |   |       |

REMARKS: 60/60

EOB - 75'

S67D sealed with cement/bentonite slurry from 58' to GS