



FIELD LOG OF BORING NO. HG-2

SHEET NO. 1 of 1

PROJECT NO. 86-41-418-01-04 DATE(S) 8/10/87 ELEVATION 1300  
 PROJECT NAME Riverside County SWAT - Highgrove REFERENCE W. side of landfill  
 FIELD ENGINEER Scott Heule LOCATION \_\_\_\_\_  
 ASSISTANT \_\_\_\_\_ WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_ MIN/HOURS \_\_\_\_\_  
 DRILLING CO Datum Exploration TIME 1000 1027  
 DRILLING METHOD & DIAM 8" HSA DRIVING WEIGHT \_\_\_\_\_ AVERAGE DROP \_\_\_\_\_

| DEPTH | BLOW VALUE (SPT) BULK SAMPLE NO. CORE | BLOWS PER LENGTH, IN. | MOISTURE | CONSISTENCY | COLOR      | DESCRIPTION  | GROUP SYMBOL | hNu                                |          | REMARKS |
|-------|---------------------------------------|-----------------------|----------|-------------|------------|--|--------------|------------------------------------|----------|---------|
|       |                                       |                       |          |             |            |  |              | E/O <sub>2</sub> /H <sub>2</sub> S |          |         |
| 0     |                                       |                       | Dry      | Loose       | Brn.       | Sand, fine to crs. grained, silty  | SM           | 0                                  | 0/21.7/0 |         |
| 2     |                                       |                       |          |             |            |  |              |                                    |          |         |
| 4     | HG-2 4'                               |                       | Damp     |             | Drk. Brn.  | Sand, fine to crs., silty, clayey, micaceous   | SM           | 0                                  | 0/21.7/0 |         |
| 6     |                                       |                       |          |             |            |  |              |                                    |          | Qal?    |
| 8     |                                       |                       |          |             |            | @ 8' minor gravel.   |              |                                    |          |         |
| 10    | HG-2 9'                               | 16/23/28<br>18"       | Damp     | Dense       | Gry. Brn.  | Sand, fine to crs., silt & clayey possibly CaCO <sub>2</sub> frac. filling, micaceous.                   | SM/SC        | 0                                  | 0/21.7/0 | Qc      |
| 12    |                                       |                       |          |             |            |  |              |                                    |          |         |
| 14    | HG-2 14'                              | 100<br>45"            | Damp     | V. Dense    | Gry.       | Sand, silty, fine to crs. grained, v. micaceous, decomposed granitics.                                   |              | 0                                  | 0/21.7/0 | D.G.    |
| 16    |                                       |                       |          |             |            |  |              |                                    |          |         |
| 18    |                                       |                       |          |             |            | harder drilling  |              |                                    |          |         |
| 20    | HG-2 19'                              | 83/<br>6"             | Damp     | V. Dense    | Gry.       | As above.  |              | 0                                  | 0/21.7/0 |         |
| 22    |                                       |                       |          |             |            |  |              |                                    |          |         |
| 24    | HG-2 24'                              | 55/100<br>6"/4"       | Damp     | V. Dense    | Gry. & Tn. | Decomposed granitics, some Fe staining (Tan) around Fe/Mg minerals @ 26.5' maybe water, drilling easier. |              | 0                                  | 0/21.7/0 |         |
| 26    |                                       |                       |          |             |            |  |              |                                    |          |         |
| 29    |                                       |                       |          |             |            |  |              |                                    |          |         |
| 30    | HG-2 29'                              | 101<br>3"             | Damp Wet | V. Dense    |            | Decomposed granitics, crs. grained, clayey, silty, Fe staining around Fe/Mg minerals, sampler was wet.   |              | 0                                  | 0/21.7/0 |         |
| 32    |                                       |                       |          |             |            |  |              |                                    |          |         |
| 34    |                                       |                       |          |             |            |  |              |                                    |          |         |
| 35    |                                       |                       |          |             |            | Refusal, stopped drilling @ 35'.   |              |                                    |          |         |
| 36    |                                       |                       |          |             |            |  |              |                                    |          |         |
| 39    |                                       |                       |          |             |            |  |              |                                    |          |         |
| 40    |                                       |                       |          |             |            |  |              |                                    |          |         |



WELL COMPLETION LOG OF BORING NO. HG-2

SHEET NO. 1 of 1

PROJECT NO. 86-41-418-01-04 DATE(S) 8/10/87 ELEVATION 1300  
 PROJECT NAME Riverside County SWAT - Highgrove REFERENCE \_\_\_\_\_  
 FIELD ENGINEER Scott Heule LOCATION \_\_\_\_\_  
 ASSISTANT \_\_\_\_\_ WATER LEVEL 20.8' @ 1618 AFTER \_\_\_\_\_ MIN./HOURS  
20.72 @ 1713  
 DRILLING CO. Datum Exploration TIME 1300 1521  
 SETUP START STOP  
 DRILLING METHOD & DIAM 10" HSA DRIVING WEIGHT \_\_\_\_\_ AVERAGE DROP \_\_\_\_\_

| IN. VALUE<br>IS 1 FT | BULK SAMPLE NO<br>CORE | DEPTH | BLOWS PER<br>LENGTH IN. | MOISTURE | CONSISTENCY | COLOR | DESCRIPTION                           | GROUP<br>SYMBOL | PERCENT<br>GRAY SAND FINES | REMARKS |
|----------------------|------------------------|-------|-------------------------|----------|-------------|-------|---------------------------------------|-----------------|----------------------------|---------|
|                      |                        |       |                         |          |             |       |                                       |                 |                            |         |
| 0                    |                        |       |                         |          |             |       |                                       |                 |                            |         |
| 2                    |                        |       |                         |          |             |       | Sch. 80<br>4" dia.<br>Blank PVC       |                 |                            |         |
| 4                    |                        |       |                         |          |             |       |                                       |                 |                            |         |
| 6                    |                        |       |                         |          |             |       |                                       |                 |                            |         |
| 8                    |                        |       |                         |          |             |       |                                       |                 |                            |         |
| 10                   |                        |       |                         |          |             |       |                                       |                 |                            |         |
| 12                   |                        |       |                         |          |             |       | Volclay<br>Grout Seal                 |                 |                            |         |
| 14                   |                        |       |                         |          |             |       |                                       |                 |                            |         |
| 16                   |                        |       |                         |          |             |       | 10" wellbore                          |                 |                            |         |
| 18                   |                        |       |                         |          |             |       |                                       |                 |                            |         |
| 20                   |                        |       |                         |          |             |       |                                       |                 |                            |         |
| 22                   |                        |       |                         |          |             |       | Lonestar<br>#2/12<br>Monterey<br>Sand |                 |                            |         |
| 24                   |                        |       |                         |          |             |       |                                       |                 |                            |         |
| 26                   |                        |       |                         |          |             |       |                                       |                 |                            |         |
| 28                   |                        |       |                         |          |             |       | 4" dia.<br>.02 slot<br>PVC Sch. 80    |                 |                            |         |
| 30                   |                        |       |                         |          |             |       |                                       |                 |                            |         |
| 32                   |                        |       |                         |          |             |       |                                       |                 |                            |         |
| 34                   |                        |       |                         |          |             |       |                                       |                 |                            |         |
| 36                   |                        |       |                         |          |             |       | slip cap                              |                 |                            |         |
| 36'                  |                        |       |                         |          |             |       |                                       |                 |                            |         |
| 37'                  |                        |       |                         |          |             |       |                                       |                 |                            |         |
| 38                   |                        |       |                         |          |             |       |                                       |                 |                            |         |
| 40                   |                        |       |                         |          |             |       |                                       |                 |                            |         |

Used slip cap w/ 2 plastic pins (penbarrel) to hold it on.



FIELD LOG OF BORING NO. HG-3

SHEET NO. 1 of 3

PROJECT NO. 86-41-418-01-04 DATE(S) 9/28/87 ELEVATION \_\_\_\_\_  
 PROJECT NAME Riverside County SWAT - Highgrove REFERENCE \_\_\_\_\_  
 FIELD ENGINEER Scott Heule LOCATION near scales  
 ASSISTANT \_\_\_\_\_ WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_ MIN/HOURS  
 DRILLING CO. Datum Exploration TIME 1024 1231  
 DRILLING METHOD & DIAM. SS-16 w/10" casing hammer DRIVING WEIGHT \_\_\_\_\_ AVERAGE DROP \_\_\_\_\_

| DEPTH | SAMPLE NO. BULK AND RANGE | MOISTURE | CONSISTENCY | COLOR         | DESCRIPTION                                  | GROUP SYMBOL | PERCENT |            | REMARKS |
|-------|---------------------------|----------|-------------|---------------|--|--------------|---------|------------|---------|
|       |                           |          |             |               |  |              | GRAV.   | SAND FINES |         |
| 0     |                           |          |             |               |  |              |         |            |         |
| 2     |                           |          |             |               |  |              |         |            |         |
| 4     |                           |          |             |               |  |              |         |            |         |
| 6     | HG-3 5'                   |          |             | Org. Red Brn. | Sand, silty, well graded, micaceous          | SM           |         |            |         |
| 10    | HG-3 10'                  |          |             | Brn.          | Sand, silty, micaceous, well graded          | SM           |         |            |         |
| 16    | HG-3 15'                  |          |             | Brn.          | Sand, silty, micaceous, well graded.         | SM           |         |            |         |
| 20    | HG-3 20'                  |          |             | Brn.          | Sand, silty w/ gravel to 1/4" dia. micaceous | SM           |         |            |         |
| 25    | HG-3 25'                  |          |             | Brn.          | As above.                                    |              |         |            |         |
| 30    | HG-3 30'                  |          |             | Yel. Brn.     | Sand, silty, some clay.                      | SM           |         |            |         |
| 35    | HG-3 35'                  |          |             | Yel. Brn.     | Sand, silty w/ granules                      | SM           |         |            |         |
| 38    |                           |          |             |               | @ 38', sand & gravel, little to no silt.     | SP           |         |            |         |
| 40    |                           |          |             |               |  |              |         |            |         |



FIELD LOG OF BORING NO. HG-3

SHEET NO. 2 of 3

PROJECT NO. 86-41-418-01-04 DATE(S) 9/28/87 ELEVATION \_\_\_\_\_

PROJECT NAME Riverside County SWAT - Highgrove REFERENCE \_\_\_\_\_

FIELD ENGINEER Scott Heule LOCATION \_\_\_\_\_

ASSISTANT \_\_\_\_\_ WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_ MIN/HOURS \_\_\_\_\_

DRILLING CO. Datum Exploration TIME \_\_\_\_\_ SETUP \_\_\_\_\_ START \_\_\_\_\_ STOP \_\_\_\_\_

DRILLING METHOD & DIAM. SS-16 10" Tricone Openhole DRIVING WEIGHT \_\_\_\_\_ AVERAGE DROP \_\_\_\_\_

| DEPTH | BLOW PER LENGTH - IN. | MOISTURE | CONSISTENCY | COLOR | DESCRIPTION   | GROUP SYMBOL | PERCENT GRAY SAND-FINES | REMARKS  |
|-------|-----------------------|----------|-------------|-------|---|--------------|-------------------------|--|
|       |                       |          |             |       |   |              |                         |  |
| 40    |                       |          |             |       | Tan Sand, fine to med. grained.   | SP           |                         | Begin adding injection wtr. & drilling open hole.                              |
| 42    |                       |          |             |       |   |              |                         |  |
| 44    |                       |          |             |       |   |              |                         |  |
| 46    |                       |          |             |       | @ 46.5' harder drilling, probably D.G. contact.   |              |                         | Non-Marine Terrace Deposits  |
| 48    |                       |          |             |       |   |              |                         | Bonsall Tonalite   |
| 50    |                       |          |             |       | Tan Decomposed granitics, med. to crs. grained, micaceous.  |              |                         |  |
| 52    |                       |          |             |       |   |              |                         |  |
| 54    |                       |          |             |       |   |              |                         |  |
| 56    |                       |          |             |       |   |              |                         |  |
| 58    |                       |          |             |       | slower drilling.  |              |                         |  |
| 60    |                       |          |             |       | Tan Decomposed granitics, micaceous.  |              |                         | 1030 has SWL 40' below GS (TD = 60')   |
| 62    |                       |          |             |       | Tan Cuttings are granitics, w/ Fe staining v. hard, slow drilling, probably abundant small fractures. |              |                         | @ 1128 drilling rate = 12'/hr. Hole is making water.                           |
| 64    |                       |          |             |       |   |              |                         |  |
| 66    |                       |          |             |       |   |              |                         |  |
| 68    |                       |          |             |       |   |              |                         |  |
| 70    |                       |          |             |       | Tan Granitics, Fe stained, fine to med. grained, probably abundant small fractures.                   |              |                         | Rate = 12'/hr.   |
| 72    |                       |          |             |       |   |              |                         |  |
| 74    |                       |          |             |       |   |              |                         |  |
| 76    |                       |          |             |       |   |              |                         | Q=4-5 gpm as measured w/pail & stop watch @ 1200 hrs. SWL @ 0900 10/1/87 = 45' |
| 78    |                       |          |             |       |   |              |                         |  |
| 80    |                       |          |             |       | Tan Granitic, slt. Fe stain, med. to crs. grnd., probably abundant small fractur.                     |              |                         | Casing @ 79'   |



FIELD LOG OF BORING NO. HG-3

SHEET NO. 3 of 3

PROJECT NO. 86-41-418-01-04 DATE(S) 10/1/87 ELEVATION \_\_\_\_\_

PROJECT NAME Riverside County SWAT - Highgrove REFERENCE \_\_\_\_\_

FIELD ENGINEER Scott Heule, Greg Moss LOCATION \_\_\_\_\_

ASSISTANT \_\_\_\_\_ WATER LEVEL \_\_\_\_\_ AFTER \_\_\_\_\_ MIN/HOURS \_\_\_\_\_

DRILLING CO. Datum Exploration TIME 0900 1345

DRILLING METHOD & DIAM SS-16 6" Air Hammer - Openhole DRIVING WEIGHT \_\_\_\_\_ AVERAGE DROP \_\_\_\_\_

below 6" casing

| DEPTH | BLOW PER LENGTH IN. | MOISTURE | CONSISTENCY | COLOR | DESCRIPTION  | GROUP SYMBOL | PERCENT GRAY SAND FINES | REMARKS                     |
|-------|---------------------|----------|-------------|-------|--|--------------|-------------------------|-----------------------------|
|       |                     |          |             |       |  |              |                         |                             |
| 80    |                     |          |             |       |  |              |                         | begin drilling              |
| 82    |                     |          |             |       |  |              |                         | 6" down hole                |
| 84    |                     |          |             |       |  |              |                         | hammer, open                |
| 86    |                     |          |             |       |  |              |                         | hole                        |
| 88    |                     |          |             |       |  |              |                         |                             |
| 90    |                     |          |             | Tan   | Granitics, Fe stained slightly, med. to crs. grained, probably abundant small fractures, and some clay-filled fractures. |              |                         |                             |
| 92    |                     |          |             |       |  |              |                         |                             |
| 94    |                     |          |             |       |  |              |                         |                             |
| 96    |                     |          |             |       |  |              |                         |                             |
| 98    |                     |          |             |       |  |              |                         |                             |
| 100   |                     |          |             | Tan   | Granitics-tan-brown, crs. grained, abundant small fractures, Fe stained.   |              |                         |                             |
| 102   |                     |          |             |       |  |              |                         |                             |
| 104   |                     |          |             |       | TD=103   |              |                         | Hole still making some wtr. |
| 106   |                     |          |             |       |  |              |                         |                             |
| 108   |                     |          |             |       |  |              |                         |                             |
| 110   |                     |          |             |       |  |              |                         |                             |
| 112   |                     |          |             |       |  |              |                         |                             |
| 114   |                     |          |             |       |  |              |                         |                             |
| 116   |                     |          |             |       |  |              |                         |                             |
| 118   |                     |          |             |       |  |              |                         |                             |
| 120   |                     |          |             |       |  |              |                         |                             |



# WELL COMPLETION LOG OF BORING NO. HG-3

SHEET NO. 1 of 1

|   |                        |                                    |
|---|------------------------|------------------------------------|
| PROJECT NO. <u>86-41-418-01-04</u>                    | DATE(S) <u>10/2/87</u> | ELEVATION _____                    |
| PROJECT NAME <u>Riverside County SWAT - Highgrove</u> | REFERENCE _____        |                                    |
| FIELD ENGINEER <u>Scott Heule</u>                     | LOCATION _____         |                                    |
| ASSISTANT _____                                       | WATER LEVEL _____      | AFTER _____ MIN/HOURS              |
| DRILLING CO. <u>Datum Exploration</u>                 | TIME _____             | SETUP _____ START _____ STOP _____ |
| DRILLING METHOD & DIAM. _____                         | DRIVING WEIGHT _____   | AVERAGE DROP _____                 |

| DEPTH | BULK SAMPLE NO. AND RANGE | CORE | BLOWS PER LENGTH - IN. | MOISTURE | CONSISTENCY | COLOR | DESCRIPTION | GROUP SYMBOL | PERCENT GRAV. SAND FINES | REMARKS |
|-------|---------------------------|------|------------------------|----------|-------------|-------|-------------|--------------|--------------------------|---------|
| 0     |                           |      |                        |          |             |       |             |              |                          |         |
| 5     |                           |      |                        |          |             |       |             |              |                          |         |
| 10    |                           |      |                        |          |             |       |             |              |                          |         |
| 15    |                           |      |                        |          |             |       |             |              |                          |         |
| 20    |                           |      |                        |          |             |       |             |              |                          |         |
| 25    |                           |      |                        |          |             |       |             |              |                          |         |
| 30    |                           |      |                        |          |             |       |             |              |                          |         |
| 35    |                           |      |                        |          |             |       |             |              |                          |         |
| 40    |                           |      |                        |          |             |       |             |              |                          |         |
| 45    |                           |      |                        |          |             |       |             |              |                          |         |
| 50    |                           |      |                        |          |             |       |             |              |                          |         |
| 55    |                           |      |                        |          |             |       |             |              |                          |         |
| 60    |                           |      |                        |          |             |       |             |              |                          |         |
| 65    |                           |      |                        |          |             |       |             |              |                          |         |
| 70    |                           |      |                        |          |             |       |             |              |                          |         |
| 75    |                           |      |                        |          |             |       |             |              |                          |         |
| 80    |                           |      |                        |          |             |       |             |              |                          |         |
| 100   |                           |      |                        |          |             |       |             |              |                          |         |
| 105   |                           |      |                        |          |             |       |             |              |                          |         |
| 110   |                           |      |                        |          |             |       |             |              |                          |         |
| 115   |                           |      |                        |          |             |       |             |              |                          |         |

10" dia. borehole

6" dia. steel casing

Volclay Grout Seal

75 ft.

6" steel casing to 79 ft.

6" open borehole to 103' T.D.

# Log of Boring No. HG-4

Dates Drilled: 4/18/92      Logged by: DSG      Checked by: NJA  
 Equipment: GD 1000 AIR ROTARY      Driving Weight and Drop: \_\_\_\_\_  
 Ground Surface Elevation: \_\_\_\_\_      Depth to Water: encountered at 81.4 feet A.T.D.

| DEPTH (FL) | GRAPHIC LOG | SUMMARY OF SUBSURFACE CONDITIONS  |         | SAMPLES  |  | BLOWS/6 INCH. | DRILL RATE (FL / MIN) | MOISTURE (%) | QVA / ODOR |
|------------|-------------|---|---------|----------|--|---------------|-----------------------|--------------|------------|
|            |             | This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered. | DRIVE   | CUTTINGS |  |               |                       |              |            |
|            |             | <b>ARTIFICIAL FILL:</b>   |         |          |  |               |                       |              |            |
|            |             | boulder, very slow drilling   |         |          |  |               | 5.0                   |              |            |
|            |             | easier drilling   |         |          |  |               |                       |              |            |
| 5          |             | <b>ALLUVIAL SEDIMENTS:</b>  |         |          |  |               |                       |              |            |
|            |             |   | MW-6-5  |          |  |               | 0.6                   |              |            |
| 10         |             |   | MW-6-10 |          |  |               | 0.8                   |              |            |
| 15         |             |   | MW-6-15 |          |  |               | 0.6                   |              |            |
| 20         |             |   | MW-6-20 |          |  |               | 0.5                   |              |            |
| 25         |             |   | MW-6-25 |          |  |               | 1.0                   |              |            |
|            |             | <b>ALLUVIAL SEDIMENTS / DECOMPOSED TONALITE BEDROCK?</b>  |         |          |  |               |                       |              |            |
| 30         |             |   | MW-6-30 |          |  |               | 0.5                   |              |            |

DRAFT

# Log of Boring No. HG-4

Dates Drilled: 4/18/92      Logged by: DSG      Checked by: NJA  
 Equipment: GD 1000 AIR ROTARY      Driving Weight and Drop: \_\_\_\_\_  
 Ground Surface Elevation: \_\_\_\_\_      Depth to Water: encountered at 81.4 feet A.T.D.

| DEPTH (FE) | GRAPHIC LOG | SUMMARY OF SUBSURFACE CONDITIONS  |         | SAMPLES |          | BLOWS/6 INCH. | DRILL RATE (FE / MIN) | MOISTURE (%) | QVA / ODOR |
|------------|-------------|---|---------|---------|----------|---------------|-----------------------|--------------|------------|
|            |             | This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered. |         | DRIVE   | CUTTINGS |               |                       |              |            |
|            |             | MW-6-35   |         |         |          |               |                       |              |            |
|            |             | <b>ALUVIAL SEDIMENTS / DECOMPOSED TONALITE BEDROCK?</b>   |         |         |          |               | 1.0                   |              |            |
| 40         |             |   | MW-6-40 |         |          |               | 0.5                   |              |            |
| 45         |             | dark brown  | MW-6-45 |         |          |               | 0.3                   |              |            |
| 50         |             | TONALITE: decomposed / weathered  | MW-6-50 |         |          |               | 0.5                   |              |            |
| 55         |             |   | MW-6-55 |         |          |               | 0.5                   |              |            |
| 60         |             |   | MW-6-60 |         |          |               | 0.5                   |              |            |
| 65         |             | harder, less weathered  | MW-6-65 |         |          |               | 0.5                   |              |            |





# Log of Boring No. HG-4

Dates Drilled: 4/18/92      Logged by: DSG      Checked by: NJA

Equipment: GD 1000 AIR ROTARY      Driving Weight and Drop: \_\_\_\_\_

Ground Surface Elevation: \_\_\_\_\_      Depth to Water: encountered at 81.4 feet A.T.D.

| DEPTH (FE) | GRAPHIC LOG             | SUMMARY OF SUBSURFACE CONDITIONS<br><small>This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.</small> | SAMPLES |          | BLOWS/6 INCH. | DRILL RATE (FE / MIN) | MOISTURE (%) | OVA / OOCR |
|------------|-------------------------|--|---------|----------|---------------|-----------------------|--------------|------------|
|            |                         |  | DRIVE   | CUTTINGS |               |                       |              |            |
|            |                         | <b>TONALITE: micaceous</b>   |         |          |               |                       |              |            |
| 75         | harder                  | MW-6-70  | [X]     |          |               | 0.5                   |              |            |
| 80         | groundwater encountered | MW-6-75  | [X]     |          |               | 0.3                   |              | 0.10 ppm   |
| 85         |                         | MW-6-85  | [X]     |          |               | 1.0                   |              |            |
| 90         |                         | MW-6-90  | [X]     |          |               | 0.6                   |              |            |
| 95         |                         | MW-6-95  | [X]     |          |               | 0.7                   |              |            |
| 100        |                         | MW-6-100   | [X]     |          |               | 1.0                   |              | ND         |

Bottom of boring at 100 feet b.g.s.  
Groundwater was encountered at 81.4 feet A.T.D.  
Drill rate was taken at approximately 5 feet vertical intervals.

D R A F T



# Log of Boring No. HG-5

Dates Drilled: 4/17/92      Logged by: DSG      Checked by: NJA  
 Equipment: GD 1000 AIR ROTARY      Driving Weight and Drop: \_\_\_\_\_  
 Ground Surface Elevation: \_\_\_\_\_      Depth to Water: encountered at 15.5 feet A.T.D.

| DEPTH (FT) | GRAPHIC LOG               | SUMMARY OF SUBSURFACE CONDITIONS<br><small>This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.</small> | SAMPLES |          | BLOWS/6 INCH. | DRILL RATE (FT / MIN) | MOISTURE (%) | QVA / ODDOR |
|------------|---------------------------|--|---------|----------|---------------|-----------------------|--------------|-------------|
|            |                           |  | DRIVE   | CUTTINGS |               |                       |              |             |
| 5          | TONALITE: some weathering |  |         |          |               | 0.3                   |              |             |
|            |                           | MW-5-5   |         |          |               | 0.5                   |              |             |
| 10         |                           |  |         |          |               | 0.2                   |              |             |
|            |                           | harder drilling  |         |          |               | 0.3                   |              |             |
| 15         |                           | ↓  | MW-5-15 |          |               | 0.3                   |              |             |
|            |                           | decomposed, easier drilling  | MW-5-18 |          |               | 0.3                   |              |             |
| 20         |                           | MW-5-20  |         |          | 0.3           |                       |              |             |
| 25         |                           | MW-5-25  |         |          | 0.2           |                       |              |             |
| 30         |                           | MW-5-30  |         |          |               |                       |              |             |
|            |                           | Bottom of boring at 30 feet b.g.s.<br>Groundwater was encountered at 15.5 feet A.T.D.<br>Drill rate was taken at approximately 5 feet vertical intervals.  |         | DRAFT    |               |                       |              |             |

# Log of Boring No. HG-6

Dates Drilled: 4/17/92      Logged by: DSG      Checked by: NJA  
 Equipment: GD 1000 AIR ROTARY      Driving Weight and Drop: \_\_\_\_\_  
 Ground Surface Elevation: \_\_\_\_\_      Depth to Water: encountered at 11 feet A.T.D.

| DEPTH (ft) | GRAPHIC LOG                          | SUMMARY OF SUBSURFACE CONDITIONS  |         | SAMPLES          |       | BLOWS/6 INCH. | DRILL RATE (ft / min) | MOISTURE (%) | GVA / ODOR |
|------------|--------------------------------------|---|---------|------------------|-------|---------------|-----------------------|--------------|------------|
|            |                                      | This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered. | DRIVE   | CUTTINGS         |       |               |                       |              |            |
|            | TOPSOIL                              |   |         |                  |       |               |                       |              |            |
|            | TONALITE: decomposed, very weathered |   |         |                  |       |               | 0.4                   |              |            |
| 5          | ▽                                    | groundwater level (after 2 hours)   | MW-4-5  | [cutting symbol] |       |               |                       |              |            |
| 10         | ▽                                    | groundwater encountered   | MW-4-10 | [cutting symbol] |       |               | 0.5                   |              |            |
| 15         |                                      |   | MW-4-15 | [cutting symbol] |       |               | 0.7                   |              |            |
| 20         |                                      | fractured, wet  | MW-4-20 | [cutting symbol] | DRAFT |               | 1.3                   |              |            |
| 25         |                                      |   | MW-4-25 | [cutting symbol] |       |               | 0.8                   |              |            |
| 30         |                                      |   | MW-4-30 | [cutting symbol] |       |               | 0.8                   |              |            |
|            |                                      | Bottom of boring at 35 feet b.g.s.<br>Groundwater was encountered at 11 feet A.T.D.<br>Drill rate was taken at approximately 5 feet vertical intervals.   | MW-4-35 | [cutting symbol] |       |               | 0.5                   |              |            |



# Log of Boring No. HG-7

Dates Drilled: 4/13/92

Logged by: DSG

Checked by: NJA

Equipment: GD 1000 AIR ROTARY

Driving Weight and Drop: \_\_\_\_\_

Ground Surface Elevation: \_\_\_\_\_

Depth to Water: encountered at 42 feet A.T.D.

| DEPTH (FE) | GRAPHIC LOG | SUMMARY OF SUBSURFACE CONDITIONS<br><small>This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.</small> | SAMPLES |          | BLOWS/6 INCH. | DRILL RATE (FE / MIN) | MOISTURE (%) | QVA / ODOR |
|------------|-------------|--|---------|----------|---------------|-----------------------|--------------|------------|
|            |             |  | DRIVE   | CUTTINGS |               |                       |              |            |
|            |             | <b>ARTIFICIAL FILL:</b>  |         |          |               |                       |              |            |
|            |             | <b>TONALITE:</b> with quartz and biotite fragments, weathered  |         |          |               |                       |              |            |
| 5          |             |  |         |          |               |                       |              |            |
|            |             |  | MW-3-5  |          |               | 0.2                   |              |            |
| 10         |             | less weathered   |         |          |               |                       |              |            |
|            |             |  | MW-3-10 |          |               | 0.6                   |              |            |
| 15         |             |  |         |          |               |                       |              |            |
|            |             |  | MW-3-15 |          |               |                       |              |            |
| 20         |             |  |         |          |               |                       |              |            |
|            |             |  | MW-3-20 |          |               | 0.2                   |              |            |
| 25         |             | fractured, some weathering   |         |          |               |                       |              |            |
|            |             | fragments becoming dark gray / brown   | MW-3-25 |          |               | 0.3                   |              |            |
| 30         |             | weathered  |         |          |               |                       |              |            |
|            |             | hard drilling  | MW-3-30 |          |               | 0.1                   |              |            |

DRAFT

# Log of Boring No. HG-7

Dates Drilled: 4/13/92      Logged by: DSG      Checked by: NJA  
 Equipment: GD 1000 AIR ROTARY      Driving Weight and Drop: \_\_\_\_\_  
 Ground Surface Elevation: \_\_\_\_\_      Depth to Water: encountered at 42 feet A.T.D.

| DEPTH (ft.) | GRAPHIC LOG | SUMMARY OF SUBSURFACE CONDITIONS  |         | SAMPLES |          | BLOWS/6 INCH. | DRILL RATE (ft / min) | MOISTURE (%) | QUA / ODOR |
|-------------|-------------|---|---------|---------|----------|---------------|-----------------------|--------------|------------|
|             |             | This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered. |         | DRIVE   | CUTTINGS |               |                       |              |            |
|             |             |   | MW-3-35 |         |          |               | 0.1                   |              |            |
| 40          |             | TONALITE: some weathering, very hard  |         |         |          |               |                       |              |            |
|             |             |   | MW-3-40 |         |          |               | 0.1                   |              |            |
| 45          |             | groundwater encountered   |         |         |          |               |                       |              |            |
|             |             | wet   | MW-3-45 |         |          |               | 0.1                   |              |            |
|             |             | non-weathered, non-fractured  |         |         |          |               |                       |              |            |
| 50          |             |   | MW-3-50 |         |          |               | 0.1                   |              |            |
| 55          |             |   | MW-3-55 |         |          |               |                       |              |            |
|             |             | Bottom of boring at 55 feet b.g.s.<br>Groundwater was encountered at 42 feet A.T.D.<br>Drill rate was taken at approximately 5 feet vertical intervals.   |         |         |          |               |                       |              |            |

D R A F T

# Log of Boring No. HG-8

Dates Drilled: 4/15/92      Logged by: DSG      Checked by: NJA  
 Equipment: GD 1000 AIR ROTARY      Driving Weight and Drop: \_\_\_\_\_  
 Ground Surface Elevation: \_\_\_\_\_      Depth to Water: encountered at 64.6 feet A.T.D.

| DEPTH (FEET) | GRAPHIC LOG                              | <b>SUMMARY OF SUBSURFACE CONDITIONS</b><br>This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered. | SAMPLES |          | BLOWS/6 INCH. | DRILL RATE (FT / MIN) | MOISTURE (%) | GUA / ODOR |
|--------------|--|--|---------|----------|---------------|-----------------------|--------------|------------|
|              |  |  | DRIVE   | CUTTINGS |               |                       |              |            |
|              | TOPSOIL                                  |  |         |          |               |                       |              |            |
| 5            | SAND (SP): brown, fine, with mica, moist |  |         |          | 1.25          |                       |              |            |
|              | light brown, hard                        | MW-2-5   | [X]     |          |               |                       |              |            |
|              | DECOMPOSED TONALITE: deep weathering     |  |         |          | 0.33          |                       |              |            |
| 10           |  | MW-2-10  | [X]     |          |               |                       |              |            |
| 15           | TONALITE: less weathered                 | MW-2-15  | [X]     |          | 0.37          |                       |              |            |
| 20           | less weathered                           | MW-2-20  | [X]     |          | 0.62          |                       |              |            |
|              | harder drilling                          |  |         |          |               |                       |              |            |
| 25           | less weathered                           | MW-2-25  | [X]     |          | 0.13          |                       |              |            |
| 30           |  | MW-2-30  | [X]     |          |               |                       |              |            |
|              |  | MW-2-35  | [X]     |          | 1.0           |                       |              |            |

D R A F T

# Log of Boring No. HG-8


Dates Drilled: 4/15/92      Logged by: DSG      Checked by: NJA  
 Equipment: GD 1000 AIR ROTARY      Driving Weight and Drop: \_\_\_\_\_  
 Ground Surface Elevation: \_\_\_\_\_      Depth to Water: encountered at 64.6 feet A.T.D.

| DEPTH (Ft) | GRAPHIC LOG | SUMMARY OF SUBSURFACE CONDITIONS<br><small>This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.</small> | SAMPLES |          | BLOWS/6 INCH. | DRILL RATE (ft / min) | MOISTURE (%) | GVA / ODOR |
|------------|-------------|--|---------|----------|---------------|-----------------------|--------------|------------|
|            |             |  | DRIVE   | CUTTINGS |               |                       |              |            |
|            |             | TONALITE: less weathered   |         |          |               |                       |              |            |
|            |             | some seep encountered  |         |          |               | 25                    |              |            |
| 40         |             | fine, harder drilling  | MW-2-40 |          |               | 0.1                   |              |            |
| 45         |             |  | MW-2-45 |          |               | 0.1                   |              |            |
| 50         |             | dark gray, very hard drilling  | MW-2-50 |          |               | 0.1                   |              |            |
| 55         |             |  | MW-2-60 |          |               | 0.1                   |              |            |
| 60         |             | no weathering  | MW-2-60 |          |               | 0.1                   |              |            |
| 65         |             | groundwater encountered  | MW-2-65 |          |               | 0.1                   |              |            |
|            |             | fractured, weathered   |         |          |               | 0.1                   |              |            |

DRAFT

# Log of Boring No. HG-8

Dates Drilled: 4/15/92      Logged by: DSG      Checked by: NJA  
 Equipment: GD 1000 AIR ROTARY      Driving Weight and Drop: \_\_\_\_\_  
 Ground Surface Elevation: \_\_\_\_\_      Depth to Water: encountered at 64.6 feet A.T.D.

| DEPTH (Ft) | GRAPHIC LOG | <b>SUMMARY OF SUBSURFACE CONDITIONS</b><br>This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered. | SAMPLES                               |  | BLOWS/6 INCH.  | DRILL RATE (ft / min) | MOISTURE (%) | OUA / ODOR |
|------------|-------------|--|---------------------------------------|--|----------------|-----------------------|--------------|------------|
|            |             |  | DRIVE                                 | CUTTINGS   |                |                       |              |            |
| 75         |             | TONALITE: weathered<br><br><div style="border: 1px solid black; padding: 5px; margin-top: 20px;">                         Bottom of boring at 80 feet b.g.s.<br/>                         Groundwater was encountered at 64.6 feet A.T.D.<br/>                         Drill rate was taken at approximately 5 feet vertical intervals.                     </div>   | MW-2-70<br><br>MW-2-75<br><br>MW-2-80 |  | 0.1<br><br>0.1 |                       |              |            |

D R A F T



# Log of Boring No. HG-9

Dates Drilled: 11/13/92      Logged by: DSG      Checked by: NJA  
 Equipment: GD 1000 AIR ROTARY      Driving Weight and Drop: \_\_\_\_\_  
 Ground Surface Elevation: \_\_\_\_\_      Depth to Water: encountered at 15.8 feet A.T.D.

| DEPTH (FE) | GRAPHIC LOG | SUMMARY OF SUBSURFACE CONDITIONS<br><small>This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.</small> | SAMPLES |          | BLOWS/6 INCH. | DRILL RATE (FE / MIN) | MOISTURE (%) | QUA / ODOR |
|------------|-------------|--|---------|----------|---------------|-----------------------|--------------|------------|
|            |             |  | DRIVE   | CUTTINGS |               |                       |              |            |
|            | TOPSOIL     |  |         |          |               |                       |              |            |
| 5          |             | TONALITE: hard   |         |          |               | 1.0                   |              |            |
|            |             | MW-1-7<br>decomposed, some mica, some quartz, harder drilling  | X       |          |               | 4.0                   |              |            |
| 10         |             | MW-1-10<br>weathered zone  | X       |          |               | 0.33                  |              |            |
| 15         |             | MW-1-15<br>fractured groundwater encountered   | X       |          |               | 0.5                   | 0.5 ppm      |            |
| 20         |             |  |         |          |               |                       |              |            |
| 25         |             | MW-1-25  | X       |          |               | 0.5                   |              |            |
| 30         |             | MW-1-30<br>1' caving occurred after tripping out   | X       |          |               | 0.5                   |              |            |
|            |             | Bottom of boring at 30 feet b.g.s.<br>Groundwater was encountered at 15.8 feet A.T.D.<br>Drill rate was taken at approximately 5 feet vertical intervals.  |         |          |               |                       |              |            |

DRAFT



# Log of Boring No. HG-10

Dates Drilled: 12/1/93 - 12/3/93

Logged by: Jason L. Holcomb Checked by: Thomas J. Bartol

Equipment: 8" Percussion Hammer

Driving Weight and Drop: 140 lb / 30 in

Ground Surface Elevation(ft): 1700

Depth to Water(ft): 138.0

| DEPTH (ft) | GRAPHIC LOG | SUMMARY OF SUBSURFACE CONDITIONS  |      |            |           |           | SUMMARY OF WELL INSTALLATIONS  |  |
|------------|-------------|---|------|------------|-----------|-----------|--|--|
|            |             | SAMPLES   |      | BLOWS/FOOT | OVA (ppm) | FID (ppm) | LABORATORY TESTS   |  |
|            |             | DRIVE   | BULK |            |           |           |  |  |
| 5          | +           | <p><b>BEDROCK:</b> decomposed granodiorite, severely weathered, oxidized, medium brown to light gray, equigranular, subhedral, mafics(10%), feldspar(50%), Quartz(40%).</p> <hr style="border-top: 1px dashed black;"/> <p><b>BEDROCK:</b> granodiorite, relatively unweathered, hard, light gray to light brown, minor mica/mafic component(10-15%).</p> |      |            |           |           | <p>0' to 130' :<br/>132 Ft Long 4-Inch-Diameter Blank Casing(2 ft above ground)</p> <p>0' to 118' : Enviro Plug Grout Seal</p> |  |
| 10         | +           |   |      |            |           |           |  |  |
| 15         | +           |   |      |            |           |           |  |  |
| 20         | +           |   |      |            |           |           |  |  |
| 25         | +           |   |      |            |           |           |  |  |
| 30         | +           |   |      |            |           |           |  |  |
| 35         | +           |   |      |            |           |           |  |  |
| 40         | +           |   |      |            |           |           |  |  |
| 45         | +           |   |      |            |           |           |  |  |
| 50         | +           |   |      |            |           |           |  |  |
| 55         | +           |   |      |            |           |           |  |  |
| 60         | +           |   |      |            |           |           |  |  |
| 65         | +           |   |      |            |           |           |  |  |
| 70         | +           |   |      |            |           |           |  |  |
| 75         | +           |   |      |            |           |           |  |  |
|            |             |   |      |            | 2         |           |  |  |

# Log of Boring No. HG-10

Dates Drilled: 12/1/93 - 12/3/93

Logged by: Jason L. Holcomb Checked by: Thomas J. Bartol

Equipment: 8" Percussion Hammer

Driving Weight and Drop: 140 lb / 30 in

Ground Surface Elevation(ft): 1700

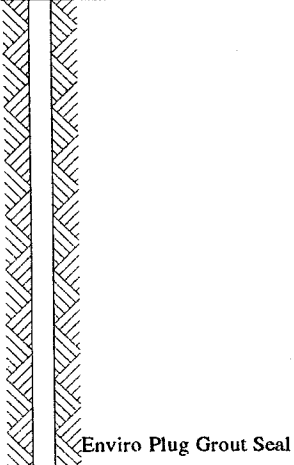
Depth to Water(ft): 138.0

| DEPTH (ft) | GRAPHIC LOG | SUMMARY OF SUBSURFACE CONDITIONS |      |            |           |           | LABORATORY TESTS | SUMMARY OF WELL INSTALLATIONS |  |
|------------|-------------|----------------------------------|------|------------|-----------|-----------|------------------|-------------------------------|--|
|            |             | DRIVE                            | BULK | BLOWS/FOOT | OVA (ppm) | FID (ppm) |                  |                               |  |
| +          | +           |                                  |      |            |           |           |                  |                               |  |
| +          | +           |                                  |      |            |           |           |                  |                               |  |
| +          | +           |                                  |      |            |           |           |                  |                               |  |
| +          | +           |                                  |      |            |           |           |                  |                               |  |
| 40         | +           |                                  |      | 50/4"      |           |           | 2                |                               |  |
| +          | +           |                                  |      |            |           |           |                  |                               |  |
| +          | +           |                                  |      |            |           |           |                  |                               |  |
| +          | +           |                                  |      |            |           |           |                  |                               |  |
| 45         | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
| 50         | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
| 55         | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
| 60         | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
| 65         | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |
|            | +           |                                  |      |            |           |           |                  |                               |  |

**SUMMARY OF SUBSURFACE CONDITIONS**  
 This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.

- change color to light gray to olive green, mica/mafics(15%)

**SUMMARY OF WELL INSTALLATIONS**



# Log of Boring No. HG-10

Dates Drilled: 12/1/93 - 12/3/93

Logged by: Jason L. Holcomb Checked by: Thomas J. Bartol

Equipment: 8" Percussion Hammer

Driving Weight and Drop: 140 lb / 30 in

Ground Surface Elevation(ft): 1700

Depth to Water(ft): 138.0

| DEPTH (ft) | GRAPHIC LOG | SUMMARY OF SUBSURFACE CONDITIONS  |  | SAMPLES |      | BLOWS/FOOT | OVA (ppm) | FID (ppm) | LABORATORY TESTS | SUMMARY OF WELL INSTALLATIONS |  |
|------------|-------------|---|--|---------|------|------------|-----------|-----------|------------------|-------------------------------|--|
|            |             | This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered. |  | DRIVE   | BULK |            |           |           |                  | Enviro Plug Grout Seal        |  |
| 75         | +           |   |  |         |      |            |           | 2         |                  | Enviro Plug Grout Seal        |  |
| 80         | +           |   |  |         |      |            |           | 2         |                  |                               |  |
| 85         | +           |   |  |         |      |            |           |           |                  |                               |  |
| 90         | +           |   |  |         |      |            |           |           |                  |                               |  |
| 95         | +           | - slightly harder, cuttings becoming finer  |  |         |      |            |           | 2         |                  |                               |  |
| 100        | +           | - color change to medium brown, cuttings becoming coarse, possible weathered fracture zone to 102 feet  |  |         |      |            |           |           |                  |                               |  |
| 105        | +           |   |  |         |      |            |           |           |                  |                               |  |
| 110        | +           |   |  |         |      |            |           |           |                  |                               |  |
| 115        | +           |   |  |         |      |            |           |           |                  |                               |  |
| 120        | +           |   |  |         |      |            |           |           |                  |                               |  |



**Converse Consultants**  
Inland Empire

Project Name.  
HIGHGROVE MONITORING  
WELL

Project No.  
93-16-141-01

Drawing No.  
A-2c

# Log of Boring No. HG-10

Dates Drilled: 12/1/93 - 12/3/93      Logged by: Jason L. Holcomb      Checked by: Thomas J. Bartol  
 Equipment: 8" Percussion Hammer      Driving Weight and Drop: 140 lb / 30 in  
 Ground Surface Elevation(ft): 1700      Depth to Water(ft): 138.0

| DEPTH (ft) | GRAPHIC LOG | SUMMARY OF SUBSURFACE CONDITIONS  |  | SAMPLES |      | BLOWS/FOOT | OVA (ppm) | FID (ppm) | LABORATORY TESTS | SUMMARY OF WELL INSTALLATIONS  |  |
|------------|-------------|---|--|---------|------|------------|-----------|-----------|------------------|--|--|
|            |             | This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered. |  | DRIVE   | BULK |            |           |           |                  | 118' to 123' : Bentonite Seal<br>123' to 250' : Sand Backfill  |  |
| 110        | +           | - hard, cuttings becoming finer, mafics(10%), feldspar(50%), quartz(40%)  |  |         |      |            |           | 2         |                  | <div style="border: 1px solid black; width: 100%; height: 100%; position: relative;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div> </div> |  |
| 115        | +           | - change color to light gray to white, mafics(15%), feldspar(45%), quartz(40%)  |  |         |      |            |           |           |                  | <div style="border: 1px solid black; width: 100%; height: 100%; position: relative;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div> </div> |  |
| 120        | +           |   |  |         |      |            |           |           |                  | <div style="border: 1px solid black; width: 100%; height: 100%; position: relative;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div> </div> |  |
| 125        | +           |   |  |         |      |            |           | 3         |                  | <div style="border: 1px solid black; width: 100%; height: 100%; position: relative;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div> </div> |  |
| 130        | +           |   |  |         |      |            |           |           |                  | <div style="border: 1px solid black; width: 100%; height: 100%; position: relative;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div> </div> |  |
| 135        | +           |   |  |         |      |            |           |           |                  | <div style="border: 1px solid black; width: 100%; height: 100%; position: relative;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div> </div> |  |



# Log of Boring No. HG-10

Dates Drilled: 12/1/93 - 12/3/93

Logged by: Jason L. Holcomb Checked by: Thomas J. Bartol

Equipment: 8" Percussion Hammer

Driving Weight and Drop: 140 lb / 30 in

Ground Surface Elevation(ft): 1700

Depth to Water(ft): 138.0

| DEPTH (ft) | GRAPHIC LOG | SUMMARY OF SUBSURFACE CONDITIONS |      | SAMPLES |      | BLOWS/FOOT | OVA (ppm) | FID (ppm) | LABORATORY TESTS | SUMMARY OF WELL INSTALLATIONS |
|------------|-------------|----------------------------------|------|---------|------|------------|-----------|-----------|------------------|-------------------------------|
|            |             | DRIVE                            | BULK | DRIVE   | BULK |            |           |           |                  |                               |
| 180        |             |                                  |      |         |      |            |           | 2         |                  |                               |
| 185        |             |                                  |      |         |      |            |           | 2         |                  |                               |
| 190        |             |                                  |      |         |      |            |           |           |                  | 190' : End Cap                |
| 195        |             |                                  |      |         |      |            |           |           |                  |                               |
| 200        |             |                                  |      |         |      |            |           |           |                  | Sand Backfill                 |
| 205        |             |                                  |      |         |      |            |           |           |                  |                               |



**Converse Consultants**  
Inland Empire

Project Name.  
HIGHGROVE MONITORING  
WELL

Project No.  
93-16-141-01

Drawing No.  
A-2f

## Log of Boring No. HG-10

Dates Drilled: 12/1/93 - 12/3/93


Logged by: Jason L. Holcomb Checked by: Thomas J. Bartol

Equipment: 8" Percussion Hammer

Driving Weight and Drop: 140 lb / 30 in

Ground Surface Elevation(ft): 1700

Depth to Water(ft): 138.0

| DEPTH (ft) | GRAPHIC LOG | SUMMARY OF SUBSURFACE CONDITIONS  |       | SAMPLES |  | BLOWS/FOOT | OVA (ppm) | FID (ppm) | LABORATORY TESTS | SUMMARY OF WELL INSTALLATIONS   |
|------------|-------------|---|-------|---------|--|------------|-----------|-----------|------------------|---|
|            |             | This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered. | DRIVE | BULK    |  |            |           |           |                  |   |
| 215        | +           | - minor brown iron oxide staining on scattered grains   |       |         |  |            |           | 2         |                  |  <p style="text-align: center;">Sand Backfill</p> |
| 220        | +           |   |       |         |  |            |           |           |                  |   |
| 225        | +           | - minor iron oxide staining on few scattered crystal faces, mafics(10%), feldspar(40%), quartz(50%)   |       |         |  |            |           |           |                  |   |
| 230        | +           |   |       |         |  |            |           |           |                  |   |
| 235        | +           |   |       |         |  |            |           |           |                  |   |
| 240        | +           |   |       |         |  |            |           | 2         |                  |   |



**Converse Consultants**  
Inland Empire

Project Name:  
**HIGHGROVE MONITORING WELL**

Project No.  
93-16-141-01

Drawing No.  
**A-2g**



# Log of Boring No. HG-10

Dates Drilled: 12/1/93 - 12/3/93

Logged by: Jason L. Holcomb Checked by: Thomas J. Bartol

Equipment: 8" Percussion Hammer

Driving Weight and Drop: 140 lb / 30 in

Ground Surface Elevation(ft): 1700

Depth to Water(ft): 138.0

| DEPTH (ft) | GRAPHIC LOG                | SUMMARY OF SUBSURFACE CONDITIONS  |  | SAMPLES |      | BLOWS/FOOT | OVA (ppm) | FID (ppm) | LABORATORY TESTS | SUMMARY OF WELL INSTALLATIONS  |
|------------|----------------------------|---|--|---------|------|------------|-----------|-----------|------------------|--|
|            |                            | This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered. |  | DRIVE   | BULK |            |           |           |                  |  |
| -250       | +<br>+<br>+<br>+<br>+<br>+ | <p>Boring terminated at 250 feet.<br/>Groundwater encountered at 147 feet during drilling.<br/>Groundwater stabilized at 138 feet after drilling.<br/>Borehole converted to monitoring well on 12-3-93.</p>   |  |         |      |            |           | 2         |                  | <div style="border: 1px solid black; width: 40px; height: 40px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); margin-bottom: 5px;"></div> <p>Sand Backfill</p> <hr style="width: 100%;"/> <p>250' : Bottom of Borehole</p> |



**Converse Consultants**  
Inland Empire

Project Name.  
HIGHGROVE MONITORING  
WELL

Project No.  
93-16-141-01

Drawing No.  
A-2h

# Canonie

## Boring Log

PROJECT No. 93-289

BORING No. HG-11

LOGGED BY Kevin Betke

PROJECT NAME: Highgrove Landfill

BORING LOCATION: \_\_\_\_\_

SURFACE ELEV: \_\_\_\_\_

DRILLER: Gary Layne Env.

DATE STARTED: 06/04/94

DATE FINISHED: 06/04/94

| DEPTH (ft) | SAMPLE |      |          |    | BLOW COUNT |     |     | REC (in) | USCS CLASS | GRAPHIC LOG | WC (%) | G <sub>u</sub> (tsf) | LAYER DEPTH  | SOIL DESCRIPTION AND REMARKS | PIEZO |
|------------|--------|------|----------|----|------------|-----|-----|----------|------------|-------------|--------|----------------------|--|------------------------------|-------|
|            | No.    | TYPE | INTERVAL |    | 0'         | 6'  | 12' |          |            |             |        |                      |  |                              |       |
|            |        |      | FROM     | TO | 6"         | 12" | 18" |          |            |             |        |                      |  |                              |       |
| 5          | 1      | Core | 0        | 10 |            |     |     | NR       | SM         |             |        |                      | Light to medium brown silty sand, dry.   |                              |       |
|            |        |      |          |    |            |     |     |          |            |             |        |                      |  |                              |       |
| 10         | 2      | Core | 10       | 20 |            |     |     | NR       | DB         |             |        |                      | Cuttings show construction debris. Tree stump stuck in core barrel. Musty odor.    |                              |       |
|            |        |      |          |    |            |     |     |          |            |             |        |                      |  |                              |       |
| 20         | 3      | Core | 20       | 30 |            |     |     | NR       |            |             |        |                      | Cuttings show plywood, brick, lumber. Odor stronger.                               |                              |       |
|            |        |      |          |    |            |     |     |          |            |             |        |                      |  |                              |       |
| 25         |        |      |          |    |            |     |     |          |            |             |        |                      | Cuttings show rubber tires. Rubber stuck in core barrel. Metal debris in cuttings. |                              |       |
|            |        |      |          |    |            |     |     |          |            |             |        |                      |  |                              |       |
| 30         | 4      | Core | 30       | 40 |            |     |     | 1        | SM         |             |        |                      | As Above   |                              |       |
|            |        |      |          |    |            |     |     |          |            |             |        |                      |  |                              |       |
| 40         | 5      | Core | 40       | 50 |            |     |     | 1        | DG         |             |        |                      | Unconsolidated grey, silty sand, some decomposed granite, dry.                     |                              |       |
|            |        |      |          |    |            |     |     |          |            |             |        |                      |  |                              |       |

# BORING LOG

# Canonie

 PROJECT No. 93-289

 BORING No. HG-11

 LOGGED BY Kevin Betke

 PROJECT NAME: Highgrove Landfill

BORING LOCATION: \_\_\_\_\_

SURFACE ELEV: \_\_\_\_\_

 DRILLER: Gary Layne Env.

 DATE STARTED: 06/04/94

 DATE FINISHED: 06/04/94

| DEPTH (ft) | SAMPLE |      | BLOW COUNT |    |    | REC (in) | USCS CLASS | GRAPHIC LOG | WC (%) | Q <sub>u</sub> (tsf) | LAYER DEPTH | SOIL DESCRIPTION AND REMARKS  | PIEZO |     |     |
|------------|--------|------|------------|----|----|----------|------------|-------------|--------|----------------------|-------------|---|-------|-----|-----|
|            | No.    | TYPE | INTERVAL   |    | 0' |          |            |             |        |                      |             |   |       | 6'  | 12' |
|            |        |      | FROM       | TO | 6" |          |            |             |        |                      |             |   |       | 12" | 18" |
| 40         | 5      | Core | 40         | 50 |    |          |            |             |        |                      | 40          | Decomposed granite, loose, chunks crumble easily between fingers. Musty odor, dry.  |       |     |     |
| 50         | 6      | Core | 50         | 60 |    |          | DG         |             |        |                      | 50          | Decomposed granite. No fractures evident. Crumbles with moderate pressure, wet. Water encountered during 50-60 run, rose to 34 feet.                |       |     |     |
| 60         | 7      | Core | 60         | 70 |    |          |            |             |        |                      | 60          | Decomposed granite, same as above.  |       |     |     |
| 70         | 8      | Core | 70         | 75 |    |          | GR         |             |        |                      | 70          | Harder penetration at 69 feet. Cracks with hammer, wet.<br>Granite bedrock, cracks only with hammer, no fractures evident, interbedded mica flakes. |       |     |     |
| 75         |        |      |            |    |    |          |            |             |        |                      | 75          | Boring reamed to 75 feet bgs using 12-inch bit.   |       |     |     |
| 80         |        |      |            |    |    |          |            |             |        |                      |             |   |       |     |     |

## Monitoring Well Detail

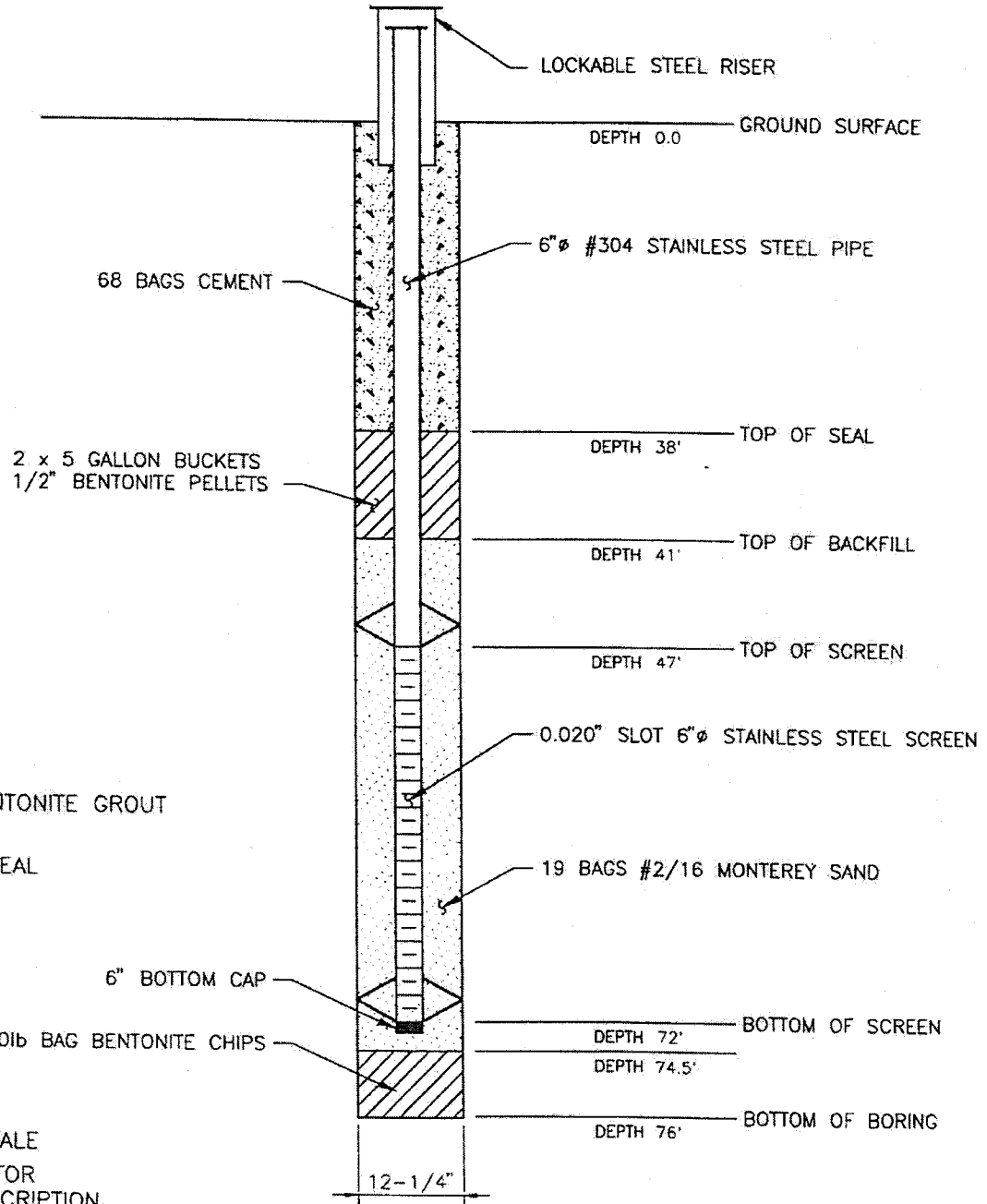
93-289-A16

PROJECT No. 93-289




WELL No. HG-11

PROJECT NAME HIGHGROVE LANDFILL

WELL LOCATION \_\_\_\_\_ DATE 6-4-94 BY KJB



**LEGEND:**

-  CEMENT-BENTONITE GROUT
-  BENTONITE SEAL
-  SAND PACK

**NOTES:**

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION

# Boring Log

# Canonie

PROJECT No. 93-289  
 BORING No. HG-12  
 LOGGED BY Kevin Betke

PROJECT NAME: Highgrove Landfill  
 BORING LOCATION: \_\_\_\_\_ SURFACE ELEV: \_\_\_\_\_  
 DRILLER: Gary Layne Env. DATE STARTED: 06/02/94 DATE FINISHED: 06/03/94

| DEPTH (ft) | SAMPLE |      | BLOW COUNT |    |    | REC (in) | USCS CLASS | GRAPHIC LOG | WC (%) | Q <sub>u</sub> (tsf) | LAYER DEPTH | SOIL DESCRIPTION AND REMARKS                                      | PIEZO |     |     |
|------------|--------|------|------------|----|----|----------|------------|-------------|--------|----------------------|-------------|---|-------|-----|-----|
|            | No.    | TYPE | INTERVAL   |    | 0' |          |            |             |        |                      |             |   |       | 6'  | 12' |
|            |        |      | FROM       | TO | 6" |          |            |             |        |                      |             |   |       | 12" | 18" |
| 0          | 1      | Core | 0          | 10 |    |          |            |             |        |                      |             |   |       |     |     |
| 5          |        |      |            |    |    |          |            |             |        |                      |             | Cuttings show light to medium brown silty sand, dry.              |       |     |     |
| 10         | 2      | Core | 10         | 20 |    |          |            |             |        |                      |             |   |       |     |     |
| 15         |        |      |            |    |    |          |            |             |        |                      |             | Reddish brown silty sand, trace gravel. Cementation evident, dry. |       |     |     |
| 20         | 3      | Core | 20         | 30 |    |          | NR SM      |             |        |                      |             |   |       |     |     |
| 25         |        |      |            |    |    |          |            |             |        |                      |             | As Above  |       |     |     |
| 30         | 4      | Core | 30         | 40 |    |          | NR         |             |        |                      |             |   |       |     |     |
| 35         |        |      |            |    |    |          |            |             |        |                      |             | Same as above. Darker brown with depth, unconsolidated.           |       |     |     |
| 40         | 5      | Core | 40         | 50 |    |          |            |             |        |                      |             |   |       |     |     |

# Boring Log

# Canonie

PROJECT No. 93-289  
 BORING No. HG-12  
 LOGGED BY Kevin Betke

PROJECT NAME: Highgrove Landfill  
 BORING LOCATION: \_\_\_\_\_ SURFACE ELEV: \_\_\_\_\_  
 DRILLER: Gary Layne Env. DATE STARTED: 06/02/94 DATE FINISHED: 06/03/94

| DEPTH (ft) | SAMPLE |      |          |    | BLOW COUNT |     |     | REC (in) | USCS CLASS | GRAPHIC LOG | WC (%) | Q <sub>u</sub> (tsf) | LAYER DEPTH | SOIL DESCRIPTION AND REMARKS                   | PIEZO |
|------------|--------|------|----------|----|------------|-----|-----|----------|------------|-------------|--------|----------------------|-------------|--|-------|
|            | No.    | TYPE | INTERVAL |    | 0'         | 6'  | 12' |          |            |             |        |                      |             |  |       |
|            |        |      | FROM     | TO | 6'         | 12' | 18' |          |            |             |        |                      |             |  |       |
| 45         | 5      | Core | 40       | 50 |            |     |     | 3        |            |             |        |                      |             | Same as above. Moisture increasing with depth. |       |
| 50         | 6      | Core | 50       | 60 |            |     |     | NR       |            |             |        |                      |             | Same as above.                                 |       |
| 60         | 7      | Core | 60       | 70 |            |     |     | NR       | SM         |             |        |                      |             | Darker brown with depth, some gravel.          |       |
| 70         | 8      | Core | 70       | 80 |            |     |     | 1        |            |             |        |                      |             | Medium brown silty sand, dry, unconsolidated.  |       |
| 80         | 9      | Core | 80       | 90 |            |     |     | 8        | SW         |             |        |                      | 80          |  |       |

PROJECT No. 93-289  
 BORING No. HG-12  
 LOGGED BY Kevin Betke

PROJECT NAME: Highgrove Landfill SURFACE ELEV: \_\_\_\_\_  
 BORING LOCATION: \_\_\_\_\_ DATE STARTED: 06/02/94 DATE FINISHED: 06/03/94  
 DRILLER: Gary Layne Env.

| DEPTH (ft) | SAMPLE |      | BLOW COUNT |     |    | REC (in) | USCS CLASS | GRAPHIC LOG | WC (%) | Q <sub>u</sub> (tsf) | LAYER DEPTH | SOIL DESCRIPTION AND REMARKS   | PIEZO |     |     |
|------------|--------|------|------------|-----|----|----------|------------|-------------|--------|----------------------|-------------|--|-------|-----|-----|
|            | No.    | TYPE | INTERVAL   |     | 0' |          |            |             |        |                      |             |  |       | 6'  | 12' |
|            |        |      | FROM       | TO  | 6' |          |            |             |        |                      |             |  |       | 12' | 18' |
| 80         | 9      | Core | 80         | 90  |    |          |            |             |        |                      | 80          | Gravelly sand, wet. Quartz, mica, granite evident.   |       |     |     |
| 82         |        |      |            |     |    |          | SW         |             |        |                      | 82          | Decomposed granite, crumbles easily, moist to wet. Water encountered during drilling at around 90 feet, rose in hole to 69'. |       |     |     |
| 85         |        |      |            |     |    |          |            |             |        |                      |             |  |       |     |     |
| 90         | 10     | Core | 90         | 100 |    |          | DG         |             |        |                      |             | As Above   |       |     |     |
| 95         |        |      |            |     |    |          |            |             |        |                      |             |  |       |     |     |
| 100        | 11     | Core | 100        | 110 |    |          | GR         |             |        |                      |             | Badly decomposed granite, wet. Driller indicates penetration very rapid 99-100 feet.   |       |     |     |
| 102        |        |      |            |     |    |          |            |             |        |                      |             | Harder penetration, decomposed granite, fractures evident. Brown clay in fissures.   |       |     |     |
| 105        |        |      |            |     |    |          |            |             |        |                      |             | Granite bedrock, no fractures evident.   |       |     |     |
| 110        |        |      |            |     |    |          |            |             |        |                      |             | Boring reamed to 110 feet with 12-inch bit.  |       |     |     |
| 115        |        |      |            |     |    |          |            |             |        |                      |             |  |       |     |     |
| 120        |        |      |            |     |    |          |            |             |        |                      |             |  |       |     |     |

93-289-A19

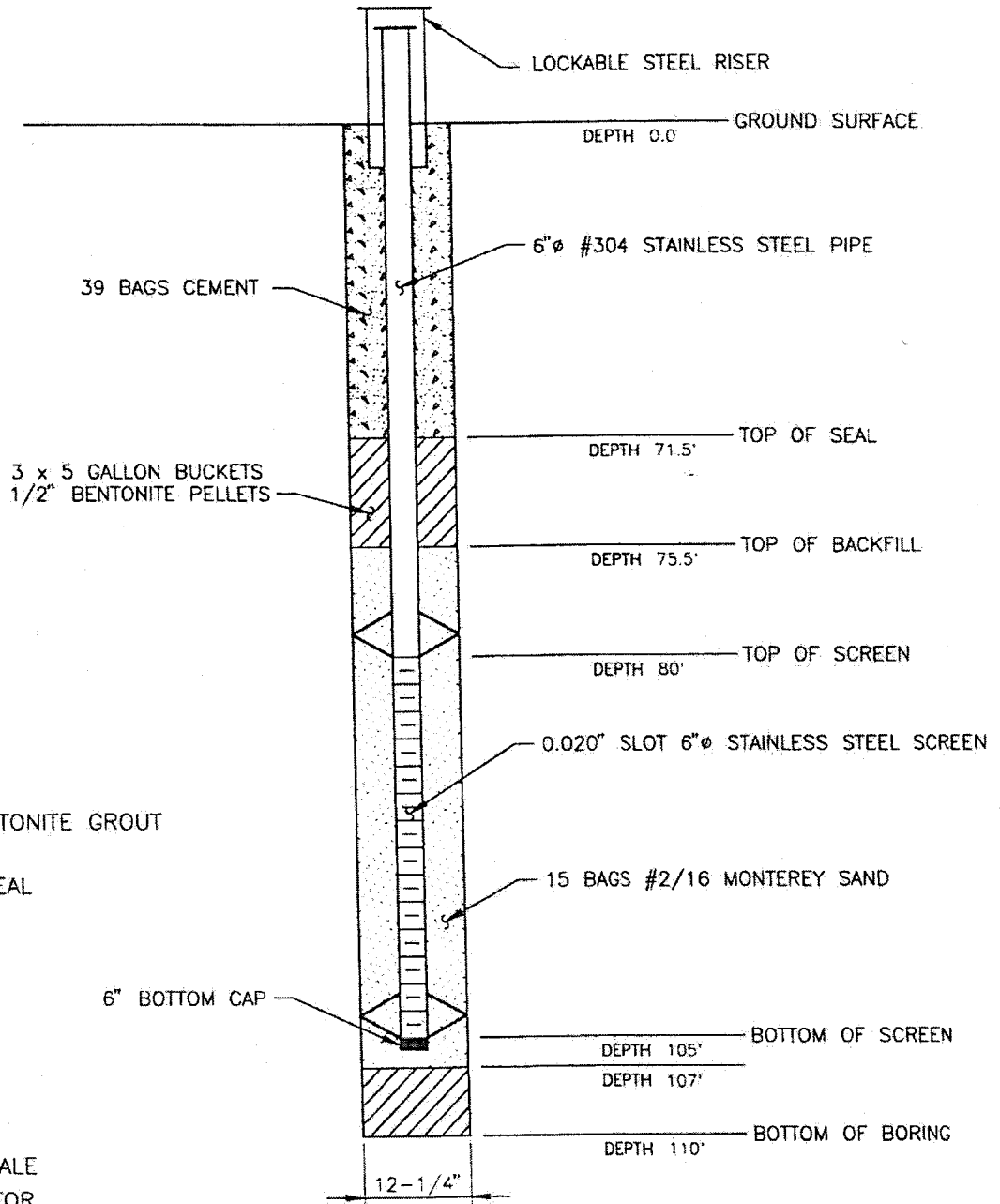
PROJECT No. 93-289

WELL No. HG-12




PROJECT NAME HIGHGROVE LANDFILL

WELL LOCATION \_\_\_\_\_

DATE 6-3-94 BY KJB



### LEGEND:

-  CEMENT-BENTONITE GROUT
-  BENTONITE SEAL
-  SAND PACK

### NOTES:

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION
3. 5" CORE TO 110' REAMED 12-1/4" BIT TO 107'



# Boring Log

# Canonie

PROJECT No. 93-289

BORING No. HG-13

LOGGED BY Kevin Betke

PROJECT NAME: Highgrove Landfill

BORING LOCATION: \_\_\_\_\_

SURFACE ELEV: \_\_\_\_\_

DRILLER: Gary Layne Env.

DATE STARTED: 05/31/94

DATE FINISHED: 06/01/94

| DEPTH (ft) | SAMPLE |      | BLOW COUNT |    |    | REC (in) | USCS CLASS GRAPHIC LOG | WC (%) | Q <sub>u</sub> (tsf) | LAYER DEPTH | SOIL DESCRIPTION AND REMARKS          | PIEZO |     |     |
|------------|--------|------|------------|----|----|----------|------------------------|--------|----------------------|-------------|---------------------------------------|-------|-----|-----|
|            | No.    | TYPE | INTERVAL   |    | 0' |          |                        |        |                      |             |                                       |       | 6'  | 12' |
|            |        |      | FROM       | TO | 6" |          |                        |        |                      |             |                                       |       | 12" | 18" |
| 0          | 1      | Core | 0          | 10 |    |          |                        |        |                      |             |                                       |       |     |     |
| 5          |        |      |            |    |    | 6        | SW                     |        |                      |             | Reddish brown sand, some gravel, dry. |       |     |     |
| 10         | 2      | Core | 10         | 20 |    |          |                        |        |                      | 8           | Light brown fine to medium sand, dry. |       |     |     |
| 15         |        |      |            |    |    | NR       |                        |        |                      |             |                                       |       |     |     |
| 20         | 3      | Core | 20         | 30 |    |          |                        |        |                      |             | As above, trace silt.                 |       |     |     |
| 25         |        |      |            |    |    | NR       | SP                     |        |                      |             |                                       |       |     |     |
| 30         | 4      | Core | 30         | 40 |    |          |                        |        |                      |             | As Above                              |       |     |     |
| 35         |        |      |            |    |    | NR       |                        |        |                      |             |                                       |       |     |     |
| 40         | 5      | Core | 40         | 50 |    |          |                        |        |                      | 40          |                                       |       |     |     |
|            |        |      |            |    |    | NR       | SW                     |        |                      |             |                                       |       |     |     |

# Canonie

## BORING LOG

PROJECT No. 93-289  
 BORING No. HG-13  
 LOGGED BY Kevin Betke

PROJECT NAME: Highgrove Landfill SURFACE ELEV.: \_\_\_\_\_  
 BORING LOCATION: \_\_\_\_\_ DATE STARTED: 05/31/94 DATE FINISHED: 06/01/94  
 DRILLER: Gary Layne Env.

| DEPTH (ft) | SAMPLE |      | BLOW COUNT |    |    | REC (in) | USCS CLASS | GRAPHIC LOG | WC (%) | G <sub>u</sub> (tsf) | LAYER DEPTH | SOIL DESCRIPTION AND REMARKS   | PIEZO |     |     |
|------------|--------|------|------------|----|----|----------|------------|-------------|--------|----------------------|-------------|--|-------|-----|-----|
|            | No.    | TYPE | INTERVAL   |    | 0' |          |            |             |        |                      |             |  |       | 6'  | 12' |
|            |        |      | FROM       | TO | 6" |          |            |             |        |                      |             |  |       | 12" | 18" |
| 40         | 5      | Core | 40         | 50 |    |          |            |             |        |                      | 40          | Medium brown sand and gravel. Granite evident, dry.  |       |     |     |
| 50         | 6      | Core | 50         | 60 |    |          |            |             |        |                      |             | As Above   |       |     |     |
| 60         | 7      | Core | 60         | 70 |    |          | SW         |             |        |                      |             | As Above   |       |     |     |
| 70         | 8      | Core | 70         | 80 |    |          |            |             |        |                      |             |  |       |     |     |
| 75         |        |      |            |    |    |          |            |             |        |                      | 75          | Brown silty sand, unconsolidated. Decomposed granite, angular. Quartz and mica evident, dry. |       |     |     |
| 80         | 9      | Core | 80         | 90 |    |          | SM         |             |        |                      |             |  |       |     |     |

# Canonie

## DURING LOG

PROJECT No. 93-289

BORING No. HG-13

LOGGED BY Kevin Betke

PROJECT NAME: Highgrove Landfill

BORING LOCATION: \_\_\_\_\_ SURFACE ELEV: \_\_\_\_\_

DRILLER: Gary Layne Env. DATE STARTED: 05/31/94 DATE FINISHED: 06/01/94

| DEPTH (ft) | SAMPLE |      | BLOW COUNT |     |    | REC (in) | USCS CLASS GRAPHIC LOG | WC (%) | Q <sub>u</sub> (tsf) | LAYER DEPTH | SOIL DESCRIPTION AND REMARKS  | PIEZO |     |     |
|------------|--------|------|------------|-----|----|----------|------------------------|--------|----------------------|-------------|---|-------|-----|-----|
|            | No.    | TYPE | INTERVAL   |     | 0' |          |                        |        |                      |             |   |       | 6'  | 12' |
|            |        |      | FROM       | TO  | 6" |          |                        |        |                      |             |   |       | 12" | 18" |
| 85         | 9      | Core | 80         | 90  |    |          |                        |        |                      |             | As Above  |       |     |     |
| 90         | 10     | Core | 90         | 100 |    |          | SM                     |        |                      |             | Grey sand and gravel, some silt. Quartz and mica evident.   |       |     |     |
| 95         |        |      |            |     |    |          |                        |        |                      |             |   |       |     |     |
| 100        | 11     | Core | 100        | 110 |    |          | ML                     |        |                      |             | Grey silt, some sand, trace gravel, wet. Water encountered during drilling at 99 feet, rose in hole to 87 feet. |       |     |     |
| 105        |        |      |            |     |    |          | SW                     |        |                      |             | Grey sand and gravel. Quartz and mica evident, wet.   |       |     |     |
| 110        | 12     | Core | 110        | 120 |    |          | DG                     |        |                      |             | Decomposed granite, solid sections show fractures with brown clay in fissures. Crumbles easily between fingers. |       |     |     |
| 115        |        |      |            |     |    |          |                        |        |                      |             | As above. Biotite and Tonolite.   |       |     |     |
| 120        | 13     | Core | 120        | 130 |    |          |                        |        |                      |             |   |       |     |     |

# Canonie

## BORING LOG

PROJECT No. 93-289  
 BORING No. HG-13  
 LOGGED BY Kevin Betke

PROJECT NAME: Highgrove Landfill  
 BORING LOCATION: \_\_\_\_\_ SURFACE ELEV.: \_\_\_\_\_  
 DRILLER: Gary Layne Env. DATE STARTED: 05/31/94 DATE FINISHED: 06/01/94

| DEPTH (ft) | SAMPLE |      |          |     | BLOW COUNT |     |     | REC (in) | USCS CLASS | GRAPHIC LOG | WC (%) | G <sub>u</sub> (tsf) | LAYER DEPTH | SOIL DESCRIPTION AND REMARKS  | PIEZO |
|------------|--------|------|----------|-----|------------|-----|-----|----------|------------|-------------|--------|----------------------|-------------|---|-------|
|            | No.    | TYPE | INTERVAL |     | 0'         | 6'  | 12' |          |            |             |        |                      |             |   |       |
|            |        |      | FROM     | TO  | 6"         | 12" | 18" |          |            |             |        |                      |             |   |       |
| 125        | 13     | Core | 120      | 130 |            |     |     | 4        |            |             |        |                      |             | As above  |       |
| 130        | 14     | Core | 130      | 140 |            |     |     | 10       | DG         |             |        |                      |             | Fractured granite, more solid, still shows fracturing.                                      |       |
| 135        |        |      |          |     |            |     |     |          |            |             |        |                      |             | 134<br>Granite bedrock, no fractures evident. Cracks with hammer only.                      |       |
| 140        |        |      |          |     |            |     |     |          | GR         |             |        |                      |             |   |       |
| 145        |        |      |          |     |            |     |     |          |            |             |        |                      |             | 144<br>Boring cored with 5-inch bit to 140 feet, and reamed with a 12-inch bit to 144 feet. |       |
| 150        |        |      |          |     |            |     |     |          |            |             |        |                      |             |   |       |
| 155        |        |      |          |     |            |     |     |          |            |             |        |                      |             |   |       |
| 160        |        |      |          |     |            |     |     |          |            |             |        |                      |             |   |       |

## Monitoring Well Detail

93-289-A17

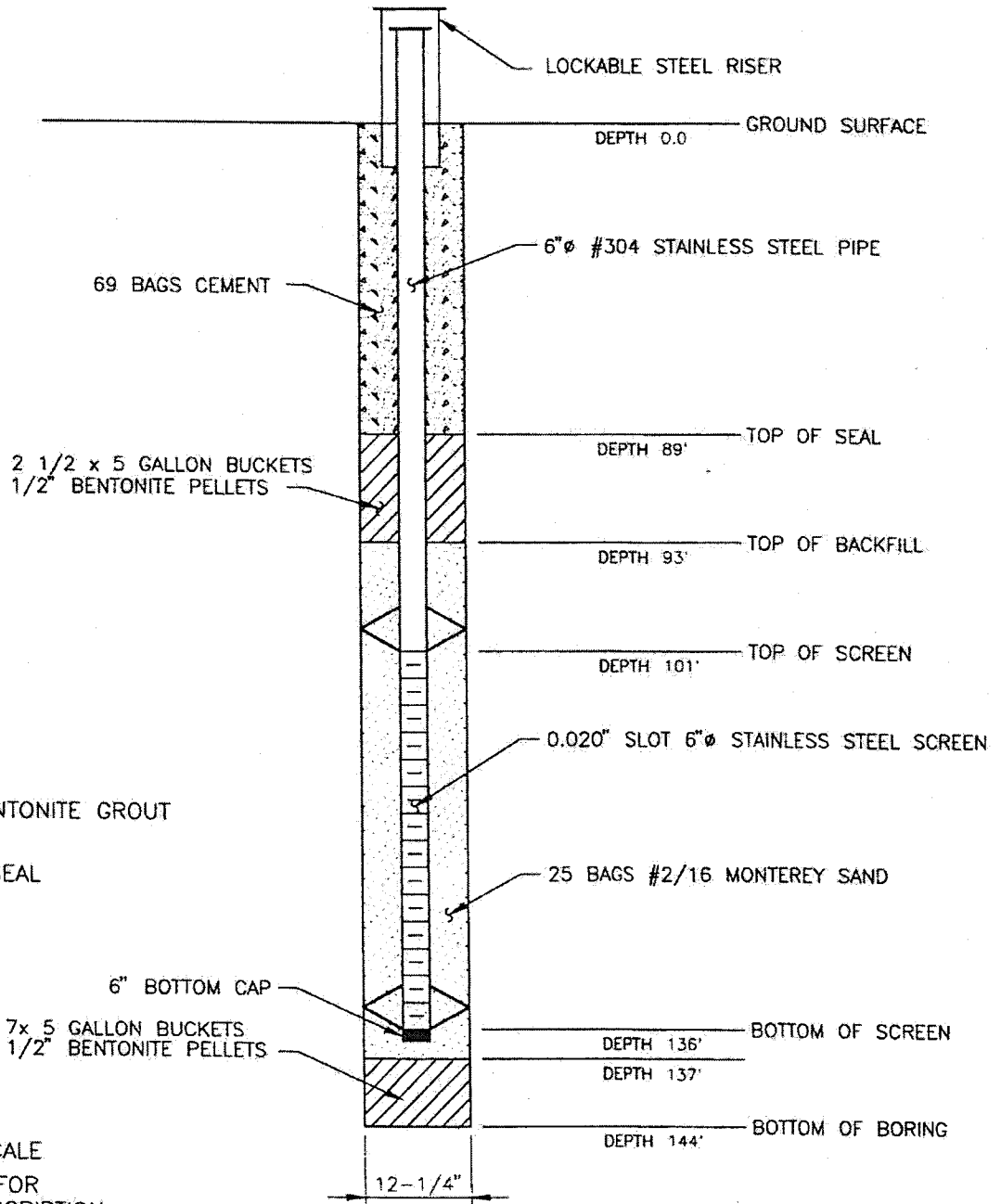
PROJECT No. 93-289

WELL No. HG-13




PROJECT NAME HIGHGROVE LANDFILL

WELL LOCATION \_\_\_\_\_

DATE 6-2-94 BY KJB



### LEGEND:

-  CEMENT-BENTONITE GROUT
-  BENTONITE SEAL
-  SAND PACK

### NOTES:

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION

# Canonie

## BORING LOG

PROJECT No. 93-289

BORING No. HG-14

LOGGED BY Kevin Belke

PROJECT NAME: Highgrove Landfill

BORING LOCATION: \_\_\_\_\_

SURFACE ELEV: \_\_\_\_\_

DRILLER: Gary Layne Env.

DATE STARTED: 06/05/94

DATE FINISHED: 06/05/94

| DEPTH (ft) | SAMPLE |      |          |    | BLOW COUNT |     |     | REC (in) | USCS CLASS | GRAPHIC LOG | WC (%) | G <sub>u</sub> (tsf) | LAYER DEPTH | SOIL DESCRIPTION AND REMARKS | PIEZO |  |
|------------|--------|------|----------|----|------------|-----|-----|----------|------------|-------------|--------|----------------------|-------------|------------------------------|-------|--|
|            | No.    | TYPE | INTERVAL |    | 0'         | 6'  | 12' |          |            |             |        |                      |             |                              |       |  |
|            |        |      | FROM     | TO | 6"         | 12" | 18" |          |            |             |        |                      |             |                              |       |  |
| 0          | 1      | Core | 0        | 10 |            |     |     | NR       |            |             |        |                      |             |                              |       |  |
| 5          |        |      |          |    |            |     |     |          |            |             |        |                      |             |                              |       |  |
| 10         | 2      | Core | 10       | 20 |            |     |     | NR       | SM         |             |        |                      |             |                              |       |  |
| 15         |        |      |          |    |            |     |     |          |            |             |        |                      |             |                              |       |  |
| 20         | 3      | Core | 20       | 30 |            |     |     | NR       |            |             |        |                      | 20          |                              |       |  |
| 25         |        |      |          |    |            |     |     |          |            |             |        |                      |             |                              |       |  |
| 30         | 4      | Core | 30       | 40 |            |     |     | 4        |            |             |        |                      | 30          |                              |       |  |
| 35         |        |      |          |    |            |     |     |          |            |             |        |                      |             |                              |       |  |
| 36         |        |      |          |    |            |     |     |          |            |             |        |                      | 34          |                              |       |  |
| 37         |        |      |          |    |            |     |     |          |            |             |        |                      | 36          |                              |       |  |
| 40         | 5      | Core | 40       | 50 |            |     |     | 4        |            |             |        |                      |             |                              |       |  |

# BORING LOG

# Canonie

PROJECT No. 93-289  
 BORING No. HG-14  
 LOGGED BY Kevin Betke

PROJECT NAME: Highgrove Landfill  
 BORING LOCATION: \_\_\_\_\_ SURFACE ELEV: \_\_\_\_\_  
 DRILLER: Gary Layne Env. DATE STARTED: 06/05/94 DATE FINISHED: 06/05/94

| DEPTH (ft) | SAMPLE |      | BLOW COUNT |    |    | REC (in) | USCS CLASS | GRAPHIC LOG | WC (%) | G <sub>u</sub> (tsf) | LAYER DEPTH | SOIL DESCRIPTION AND REMARKS   |     |     |
|------------|--------|------|------------|----|----|----------|------------|-------------|--------|----------------------|-------------|--|-----|-----|
|            | No.    | TYPE | INTERVAL   |    | 0' |          |            |             |        |                      |             |  | 6'  | 12' |
|            |        |      | FROM       | TO | 6' |          |            |             |        |                      |             |  | 12' | 18' |
| 45         | 5      | Core | 40         | 50 |    |          |            |             |        |                      |             | As Above   |     |     |
| 50         | 6      | Core | 50         | 55 |    |          |            |             |        |                      |             | Badly decomposed granite, no solid core.                                     |     |     |
| 55         | 7      | Core | 55         | 58 |    |          |            |             |        |                      |             | Harder granite, fractures with brown clay in fissures.                       |     |     |
| 60         | 8      | Core | 58         | 62 |    |          |            |             |        |                      |             | As above, solid core in 4-inch sections, fractures evident.                  |     |     |
| 65         | 9      | Core | 62         | 72 |    |          | DG         |             |        |                      |             | As above. Cores break with moderate pressure.                                |     |     |
| 70         |        |      |            |    |    |          |            |             |        |                      |             |  |     |     |
| 75         | 10     | Core | 72         | 80 |    |          |            |             |        |                      |             | Fractured granite as above. Relatively solid, breaks with moderate pressure. |     |     |
| 80         | 11     | Core | 80         | 85 |    |          |            |             |        |                      |             |  |     |     |

# Canonie

## Boring Log

PROJECT No. 93-289

BORING No. HG-14

LOGGED BY Kevin Belke

PROJECT NAME: Highgrove Landfill

BORING LOCATION: \_\_\_\_\_

SURFACE ELEV: \_\_\_\_\_

DRILLER: Gary Layne Env.

DATE STARTED: 06/05/94

DATE FINISHED: 06/05/94

| DEPTH (ft) | SAMPLE |      |          |     | BLOW COUNT |     |     | REC (in) | USCS CLASS | GRAPHIC LOG | WC (%) | Q <sub>u</sub> (tsf) | LAYER DEPTH | SOIL DESCRIPTION AND REMARKS  | PIEZO |
|------------|--------|------|----------|-----|------------|-----|-----|----------|------------|-------------|--------|----------------------|-------------|---|-------|
|            | No.    | TYPE | INTERVAL |     | 0'         | 6'  | 12' |          |            |             |        |                      |             |   |       |
|            |        |      | FROM     | TO  | 6"         | 12" | 18" |          |            |             |        |                      |             |   |       |
|            | 11     | Core | 80       | 85  |            |     |     | 4        |            |             |        |                      |             | Grey and white fractured granite, rust coloring in fissures.  |       |
| 85         | 12     | Core | 85       | 95  |            |     |     | 7        |            |             |        |                      |             | Decomposed layer, core is not solid, pieces crumble easily.   |       |
| 90         |        |      |          |     |            |     |     |          | OG         |             |        |                      |             | Harder layer, grey in color, fractures with rust coloring evident.  |       |
| 95         | 13     | Core | 95       | 105 |            |     |     | 4        |            |             |        |                      | 95          | Mildly decomposed granite. Core in 12-inch sections, light fracturing evident, brown clay in fissures. Grey in color. |       |
| 100        |        |      |          |     |            |     |     |          | GR         |             |        |                      |             |   |       |
| 105        | 14     | Core | 105      | 110 |            |     |     | 4        |            |             |        |                      |             | As above.   |       |
| 110        |        |      |          |     |            |     |     |          |            |             |        |                      | 110         | Boring cored to 110 feet with 5-inch bit, reamed to 80 feet with 12-inch bit.   |       |
| 115        |        |      |          |     |            |     |     |          |            |             |        |                      |             |   |       |
| 120        |        |      |          |     |            |     |     |          |            |             |        |                      |             |   |       |



## Monitoring Well Detail

93-289-A18

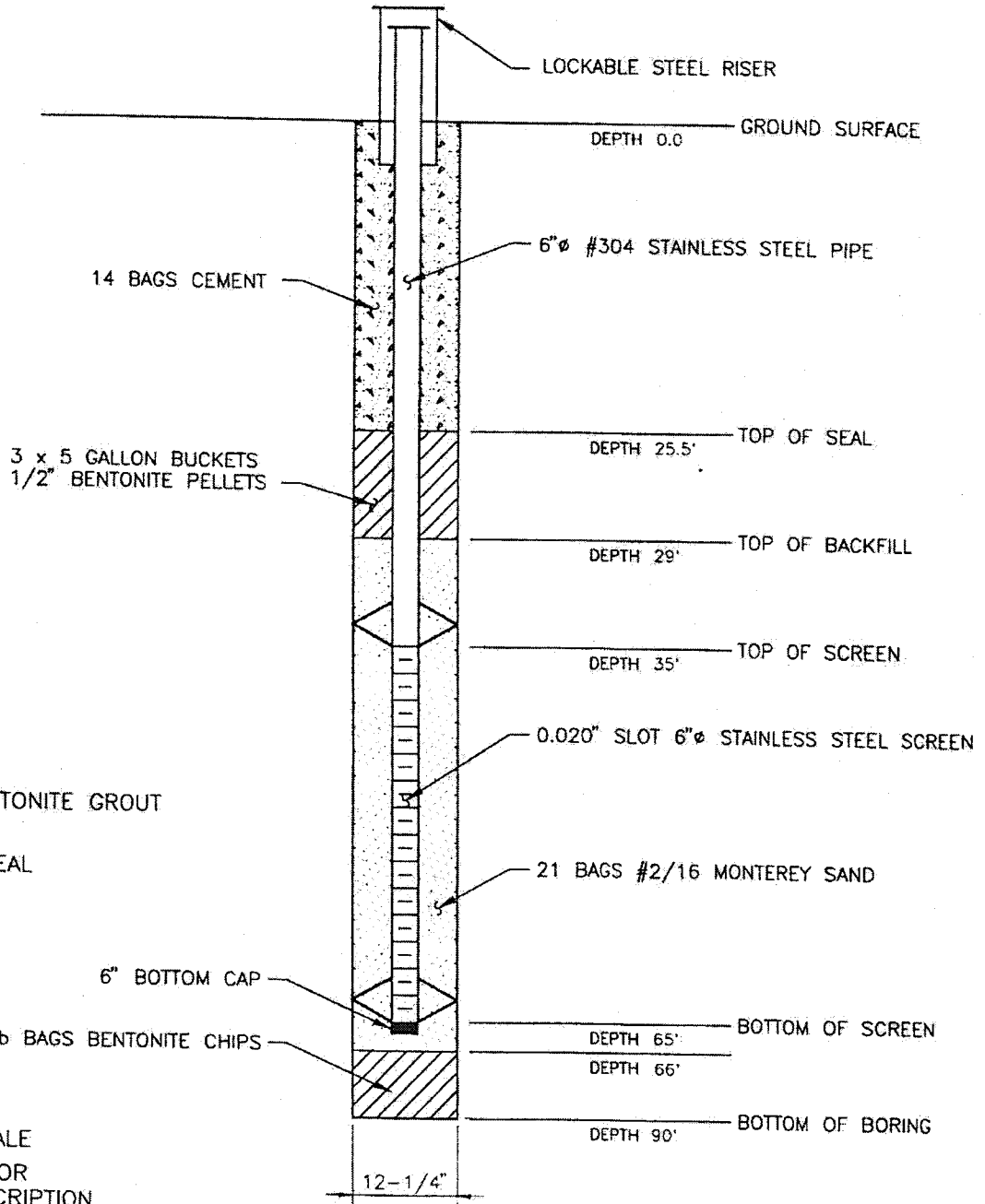
PROJECT No. 93-289

WELL No. HG-14




PROJECT NAME HIGHGROVE LANDFILL

WELL LOCATION \_\_\_\_\_

DATE 6-6-94 BY KJB



### LEGEND:

-  CEMENT-BENTONITE GROUT
-  BENTONITE SEAL
-  SAND PACK

### NOTES:

- NOT DRAWN TO SCALE
- SEE BORING LOG FOR DETAILED SOIL DESCRIPTION
- 80-90' CORED WITH 5" BIT

|  |  |   |
|--|--|---|
| LOCATION OF BORING<br><ul style="list-style-type: none"> <li>● HG-16</li> <li>● HG-17</li> <li>● HG-11</li> <li>● HG-18</li> <li>● HG-19</li> </ul>  | Environmental Technologies Corporation | BORING NUMBER<br><u>          HG-16          </u> |
| PROJECT NAME <u>CANONIE HIGHGROVE</u> PROJECT NUMBER <u>4616-3009 (93-289)</u><br>SITE ADDRESS <u>Highgrove Landfill</u> DATE DRILLED <u>5/25/95</u><br>CITY <u>Riverside, County</u> DRILLING COMPANY <u>Layne Environmental</u><br>SURFACE ELEVATION _____ DRILLING METHOD <u>Air Rotary</u><br>WATER DEPTH <u>72 Feet</u> LOGGED BY <u>J. Hwang</u><br>TOTAL DEPTH <u>102 Feet</u> CHECKED BY <u>J. Kosztowny</u> |  |   |

| CHEMICALS (ppm) |   |   |   |   | PID (ppm) | DEPTH (feet) | SAMPLES | SAMPLE NO. | BLOWS/FT. | GRAPHIC LOG | SOIL CLASS | DESCRIPTION AND REMARKS  | WELL DIAGRAM |
|-----------------|---|---|---|---|-----------|--------------|---------|------------|-----------|-------------|------------|--|--------------|
| TPH             | B | T | E | X |           |              |         |            |           |             |            |  |              |
|                 |   |   |   |   |           | 0            |         |            |           |             | SM         | Surface Material, Silty SAND, olive brown, damp, fine grained sand.            |              |
|                 |   |   |   |   |           | 5            |         |            |           |             |            | Decomposed soil, dark gray, debris, wood, brick, trash odors, artificial fill. |              |
|                 |   |   |   |   |           | 10           |         |            |           |             | AF         | Rubber tire (pieces), wood, trash odors.                                       |              |
|                 |   |   |   |   |           | 15           |         |            |           |             |            | Solvent odors.   |              |
|                 |   |   |   |   |           | 20           |         |            |           |             |            |  |              |
|                 |   |   |   |   |           | 25           |         |            |           |             |            |  |              |
|                 |   |   |   |   |           | 30           |         |            |           |             |            | Silty SAND, olive brown, damp, fine to medium grained sand, no debris.         |              |
|                 |   |   |   |   |           | 35           |         |            |           |             | SM         | Silty SAND, medium to coarse grained sand, damp.                               |              |
|                 |   |   |   |   |           | 40           |         |            |           |             |            |  |              |
|                 |   |   |   |   |           | 45           |         |            |           |             |            |  |              |
|                 |   |   |   |   |           | 50           |         |            |           |             | SW         | SAND, olive gray, moist, coarse grained sand, some gravel, well graded.        |              |

JOB NUMBER: 4616-3009

This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.



Environmental Technologies Corporation.

BORING NUMBER

HG-16

| CHEMICALS (ppm) |   |   |   |   | PID (ppm) | DEPTH (feet) | SAMPLES | SAMPLE NO. | BLOWS/FT. | GRAPHIC LOG | SOIL CLASS  | DESCRIPTION AND REMARKS | WELL DIAGRAM |
|-----------------|---|---|---|---|-----------|--------------|---------|------------|-----------|-------------|---|-------------------------|--------------|
| TPH             | B | T | E | X |           |              |         |            |           |             |   |                         |              |
|                 |   |   |   |   |           | 55           |         |            |           | SW          | Fine to medium grained sand.  |                         |              |
|                 |   |   |   |   |           | 60           |         |            |           | SP          | SAND, light olive gray, damp, fine grained, poorly graded.<br>SAND, light gray, dry, fine to medium grained.      |                         |              |
|                 |   |   |   |   |           | 65           |         |            |           | SW          | SAND, olive gray, damp, fine to coarse grained, well graded.  |                         |              |
|                 |   |   |   |   |           | 70           |         |            |           | SP          | SAND, light brownish gray, damp, fine grained, poorly graded.<br>Wet, water at 72 feet.                           |                         |              |
|                 |   |   |   |   |           | 75           |         |            |           | R           | Becomes gravelly at 73-75 feet, decomposed granite grains, light gray, dry, fine to coarse grained sand, biotite. |                         |              |
|                 |   |   |   |   |           | 85           |         |            |           | R           | Decomposed granitic rock, light gray, wet, fractured, broken pieces, appears weathered, biotite.                  |                         |              |
|                 |   |   |   |   |           | 95           |         |            |           | R           | Biotite granite.  |                         |              |
|                 |   |   |   |   |           | 100          |         |            |           | R           |   |                         |              |
|                 |   |   |   |   |           | 105          |         |            |           |             | Total depth = 102'.<br>Will ream out to 12 inch hole before installing casing.                                    |                         |              |

JOB NUMBER: 4616-3009

This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.

LOCATION OF BORING



BORING NUMBER

HG-17

- HG-16
- HG-17
- HG-11
- HG-18
- HG-19

PROJECT NAME CANONIE HIGHGROVE PROJECT NUMBER 4616-3009 (93-289)  
 SITE ADDRESS Highgrove Landfill DATE DRILLED 5/23/95  
 CITY Riverside, County DRILLING COMPANY Layne Environmental  
 SURFACE ELEVATION \_\_\_\_\_ DRILLING METHOD Air Rotary  
 WATER DEPTH 78 Feet LOGGED BY J. Hwang  
 TOTAL DEPTH 100 Feet CHECKED BY J. Kosztowny

| CHEMICALS (ppm) |   |   |   |   | PID (ppm) | DEPTH (feet) | SAMPLES | SAMPLE NO. | BLOWS/FT. | GRAPHIC LOG | SOIL CLASS | DESCRIPTION AND REMARKS  | WELL DIAGRAM |
|-----------------|---|---|---|---|-----------|--------------|---------|------------|-----------|-------------|------------|--|--------------|
| TPH             | B | T | E | X |           |              |         |            |           |             |            |  |              |
|                 |   |   |   |   |           |              |         |            |           |             | SM         | Surface Material, Silty SAND, olive brown, damp, fine grained sand.                            |              |
|                 |   |   |   |   |           | 5            |         |            |           |             |            | Gravels debris, wood, cloth, brick, odors, artificial fill.                                    |              |
|                 |   |   |   |   |           | 10           |         |            |           |             | AF         | Decomposed soil, dark gray, debris, wood, brick, cloth, odor.                                  |              |
|                 |   |   |   |   |           | 15           |         |            |           |             |            | Decomposed soil, dark gray, debris, wood, cloth, rubber (tire), few metal pieces, odor.        |              |
|                 |   |   |   |   |           | 20           |         |            |           |             |            | Silty SAND, yellowish brown, damp, fine grained sand.  |              |
|                 |   |   |   |   |           | 25           |         |            |           |             |            |  |              |
|                 |   |   |   |   |           | 30           |         |            |           |             | SM         |  |              |
|                 |   |   |   |   |           | 35           |         |            |           |             |            | Silty SAND, dark yellowish brown, damp, fine to medium grained sand, some coarse grained sand. |              |
|                 |   |   |   |   |           | 40           |         |            |           |             |            |  |              |
|                 |   |   |   |   |           | 45           |         |            |           |             |            |  |              |
|                 |   |   |   |   |           | 50           |         |            |           |             | SW         | SAND, light olive brown, damp, fine to medium grained, trace coarse grained sand.              |              |

JOB NUMBER: 4616-3009

This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.



Environmental Technologies Corporation

BORING NUMBER

HG-17

| CHEMICALS (ppm) |   |   |   |   | PID (ppm) | DEPTH (feet) | SAMPLES | SAMPLE NO. | BLOWS/FT. | GRAPHIC LOG | SOIL CLASS  | DESCRIPTION AND REMARKS | WELL DIAGRAM |
|-----------------|---|---|---|---|-----------|--------------|---------|------------|-----------|-------------|---|-------------------------|--------------|
| TPH             | B | T | E | X |           |              |         |            |           |             |   |                         |              |
|                 |   |   |   |   |           | 55           |         |            |           | SW          | SAND, olive, damp, fine to coarse grained.  |                         |              |
|                 |   |   |   |   |           | 60           |         |            |           | SP          | SAND, olive, damp, fine grained.  |                         |              |
|                 |   |   |   |   |           | 65           |         |            |           | SW          | SAND, olive gray, damp, fine to coarse grained.   |                         |              |
|                 |   |   |   |   |           | 70           |         |            |           | SP          | SAND, olive gray, damp, fine grained, trace coarse grained sand.  |                         |              |
|                 |   |   |   |   |           | 75           |         |            |           | R           | Encountered decomposed granitic rock, olive gray, biotite, granular granite.<br><br>Wet, water at 80 feet.<br>Decomposed granitic rock, light color, wet, fractured rock, weatherized, biotite. |                         |              |
|                 |   |   |   |   |           | 80           |         |            |           |             |   |                         |              |
|                 |   |   |   |   |           | 85           |         |            |           |             |   |                         |              |
|                 |   |   |   |   |           | 90           |         |            |           |             |   |                         |              |
|                 |   |   |   |   |           | 95           |         |            |           |             |   |                         |              |
|                 |   |   |   |   |           | 100          |         |            |           |             | Encountered biotite, granitic rock, hard.   |                         |              |
|                 |   |   |   |   |           | 105          |         |            |           |             | Total depth = 100'.<br>Will ream out to 12 inch hole before installing casing.  |                         |              |

JOB NUMBER: 4616-3009

This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.

LOCATION OF BORING



- HG-16
- HG-17
- HG-11
- HG-18
- HG-19



Environmental Technologies Corporation

BORING NUMBER

HG-18

PROJECT NAME CANONIE HIGHGROVE PROJECT NUMBER 4616-3009 (93-289)  
 SITE ADDRESS Highgrove Landfill DATE DRILLED 5/25/95  
 CITY Riverside, County DRILLING COMPANY Layne Environmental  
 SURFACE ELEVATION \_\_\_\_\_ DRILLING METHOD Air Rotary  
 WATER DEPTH 78 Feet LOGGED BY J. Hwang  
 TOTAL DEPTH 100 Feet CHECKED BY J. Kosztowny

| CHEMICALS (ppm) |   |   |   |   | PID (ppm) | DEPTH (feet) | SAMPLES | SAMPLE NO. | BLOWS/FT. | GRAPHIC LOG | SOIL CLASS | DESCRIPTION AND REMARKS  | WELL DIAGRAM |
|-----------------|---|---|---|---|-----------|--------------|---------|------------|-----------|-------------|------------|--|--------------|
| TPH             | B | T | E | X |           |              |         |            |           |             |            |  |              |
|                 |   |   |   |   |           | 0            |         |            |           |             | SM         | Surface Material, Silty SAND, olive brown, damp, fine grained sand.                      |              |
|                 |   |   |   |   |           | 5            |         |            |           |             |            | Decomposed soil, dark gray, debris, wood, brick, plastics, trash odors, artificial fill. |              |
|                 |   |   |   |   |           | 10           |         |            |           |             | AF         |  |              |
|                 |   |   |   |   |           | 15           |         |            |           |             |            | Wood, rubber (tire), brick, metal, odor.   |              |
|                 |   |   |   |   |           | 20           |         |            |           |             |            |  |              |
|                 |   |   |   |   |           | 25           |         |            |           |             |            | Silty SAND, light olive brown, damp, fine grained sand.                                  |              |
|                 |   |   |   |   |           | 30           |         |            |           |             |            | Silty SAND, yellowish brown, damp, fine to medium grained sand.                          |              |
|                 |   |   |   |   |           | 35           |         |            |           |             | SM         | Silty SAND, dark yellowish brown, damp, fine sand, few medium grained sand.              |              |
|                 |   |   |   |   |           | 40           |         |            |           |             |            | Silty SAND, light olive brown, damp, fine to medium grained sand,                        |              |
|                 |   |   |   |   |           | 45           |         |            |           |             |            |  |              |
|                 |   |   |   |   |           | 50           |         |            |           |             | SW         | SAND, grayish brown, damp, fine to coarse grained, poorly sorted.                        |              |

JOB NUMBER: 4616-3009

This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.



Environmental Technologies Corporation

BORING NUMBER

HG-18

| CHEMICALS (ppm) |   |   |   |   | PID (ppm) | DEPTH (feet) | SAMPLES | SAMPLE NO. | BLOWS/FT. | GRAPHIC LOG | SOIL CLASS | DESCRIPTION AND REMARKS  | WELL DIAGRAM |
|-----------------|---|---|---|---|-----------|--------------|---------|------------|-----------|-------------|------------|--|--------------|
| TPH             | B | T | E | X |           |              |         |            |           |             |            |  |              |
|                 |   |   |   |   |           |              |         |            |           | SW          |            |  |              |
|                 |   |   |   |   |           | 55           |         |            |           |             | SP         | SAND, light olive brown, damp, medium grained, well sorted.  |              |
|                 |   |   |   |   |           | 60           |         |            |           |             | SP         | SAND, light gray, dry, fine to medium grained.   |              |
|                 |   |   |   |   |           | 65           |         |            |           |             | SW         | SAND, grayish brown, damp, fine to coarse grained, well graded.  |              |
|                 |   |   |   |   |           | 70           |         |            |           |             | SW         | SAND, grayish brown, damp, fine to coarse grained, well graded.  |              |
|                 |   |   |   |   |           | 75           |         |            |           |             | SP         | SAND, light brownish gray, damp, fine grained, poorly graded.<br>Becomes gravelly at 73-75 feet, decomposed granite grains, light gray, dry, fine to coarse grained sand, biotite. |              |
|                 |   |   |   |   |           | 80           |         |            |           |             | R          | Wet, water at 78 feet.   |              |
|                 |   |   |   |   |           | 85           |         |            |           |             | R          | Decomposed granitic rock, light gray, wet, fractured, broken pieces, weatherized rock, biotite.  |              |
|                 |   |   |   |   |           | 90           |         |            |           |             | R          |  |              |
|                 |   |   |   |   |           | 95           |         |            |           |             | R          | Biotite granite.   |              |
|                 |   |   |   |   |           | 100          |         |            |           |             | R          |  |              |
|                 |   |   |   |   |           | 105          |         |            |           |             |            | Total depth = 100'.<br>Will ream out to 12 inch hole before installing casing.   |              |

JOB NUMBER: 4616-3009

This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.

LOCATION OF BORING



Environmental Technologies Corporation

BORING NUMBER

HG-19

- HG-16
- HG-17
- HG-11
- HG-18
- ⊙ HG-19

PROJECT NAME CANONIE HIGHGROVE PROJECT NUMBER 4616-3009 (93-289)  
 SITE ADDRESS Highgrove Landfill DATE DRILLED 5/30/95  
 CITY Riverside, County DRILLING COMPANY Layne Environmental  
 SURFACE ELEVATION \_\_\_\_\_ DRILLING METHOD Air Rotary  
 WATER DEPTH \_\_\_\_\_ LOGGED BY J. Kosztowny  
 TOTAL DEPTH 100 Feet CHECKED BY J. Kosztowny

| CHEMICALS (ppm) |   |   |   |   | PID (ppm) | DEPTH (feet) | SAMPLES | SAMPLE NO. | BLOWS/FT. | GRAPHIC LOG | SOIL CLASS | DESCRIPTION AND REMARKS   | WELL DIAGRAM |
|-----------------|---|---|---|---|-----------|--------------|---------|------------|-----------|-------------|------------|---|--------------|
| TPH             | B | T | E | X |           |              |         |            |           |             |            |   |              |
|                 |   |   |   |   |           | 5            |         |            |           |             | SM         | Surface Material, Silty SAND, dark grayish brown, dry, sand is fine to coarse grained, wood and organic debris, no odors. |              |
|                 |   |   |   |   |           | 10           |         |            |           |             | SM         | Some concrete debris.   |              |
|                 |   |   |   |   |           | 15           |         |            |           |             | SM         | Boulders and wood from 15'-20'.   |              |
|                 |   |   |   |   |           | 20           |         |            |           |             | SW         | SAND with gravel, light gray, fine to coarse grained, subangular to subrounded, dry, occasional concrete debris.          |              |
|                 |   |   |   |   |           | 25           |         |            |           |             | SM         | Silty SAND, very dark grayish brown, fine grained sand, no odors.   |              |
|                 |   |   |   |   |           | 30           |         |            |           |             | SM         |   |              |
|                 |   |   |   |   |           | 35           |         |            |           |             | SM         | Color changes to olive brown at 35 feet.  |              |
|                 |   |   |   |   |           | 40           |         |            |           |             | SP         | SAND, dark brown, dry, fine to medium grained.  |              |
|                 |   |   |   |   |           | 45           |         |            |           |             | SM         | Silty SAND, dark yellowish brown, fine grained sand, dry to damp.   |              |
|                 |   |   |   |   |           | 50           |         |            |           |             | SM         | SAND is very fine to fine grained, micaceous at 50 to 55 feet.  |              |

JOB NUMBER: 4616-3009

This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.





| CHEMICALS (ppm) |   |   |   |   | PID (ppm) | DEPTH (feet) | SAMPLES | SAMPLE NO. | BLOWS/FT. | GRAPHIC LOG | SOIL CLASS  | DESCRIPTION AND REMARKS | WELL DIAGRAM |
|-----------------|---|---|---|---|-----------|--------------|---------|------------|-----------|-------------|---|-------------------------|--------------|
| TPH             | B | T | E | X |           |              |         |            |           |             |   |                         |              |
|                 |   |   |   |   |           | 55           |         |            |           | SM          |   |                         |              |
|                 |   |   |   |   |           | 60           |         |            |           |             |   |                         |              |
|                 |   |   |   |   |           | 65           |         |            |           | SW          | SAND, light brownish gray, dry, well graded, fine to coarse grained, micaceous (lots of dust).  |                         |              |
|                 |   |   |   |   |           | 70           |         |            |           |             | Dusts indicates getting into rotten granite grus.   |                         |              |
|                 |   |   |   |   |           | 75           |         |            |           |             | Becomes gravelly at 73-75 feet, decomposed granite grains.  |                         |              |
|                 |   |   |   |   |           | 80           |         |            |           | R           | Slightly slower drilling, still dusting at 80 feet, switch over to core barrel.<br>Water coming in cyclone at 80 feet, moisture on pipe may indicate water depth at approximately 60 feet.  |                         |              |
|                 |   |   |   |   |           | 85           |         |            |           |             | Biotite granite, minor mafics (hornblende)  |                         |              |
|                 |   |   |   |   |           | 90           |         |            |           |             | No core recovery 90-95 feet. Switch core bits.  |                         |              |
|                 |   |   |   |   |           | 95           |         |            |           |             |   |                         |              |
|                 |   |   |   |   |           | 100          |         |            |           |             |   |                         |              |
|                 |   |   |   |   |           | 105          |         |            |           |             | Total depth = 100'.<br>Will ream out to 12 inch hole before installing casing.<br>Boulders caving in from 15-20 feet. Could not set casing.<br>Attempt drilling out boulders with 14 1/2 inch bit ended up sidetracking hole.<br>(Boulders and wood kicked out drillstring)<br>Need to abandon hole and drill twin. |                         |              |

PROJECT: HG-20

# Highgrove Sanitary Landfill HG-20

Page 1 OF 2

LOCATION: Highgrove Landfill

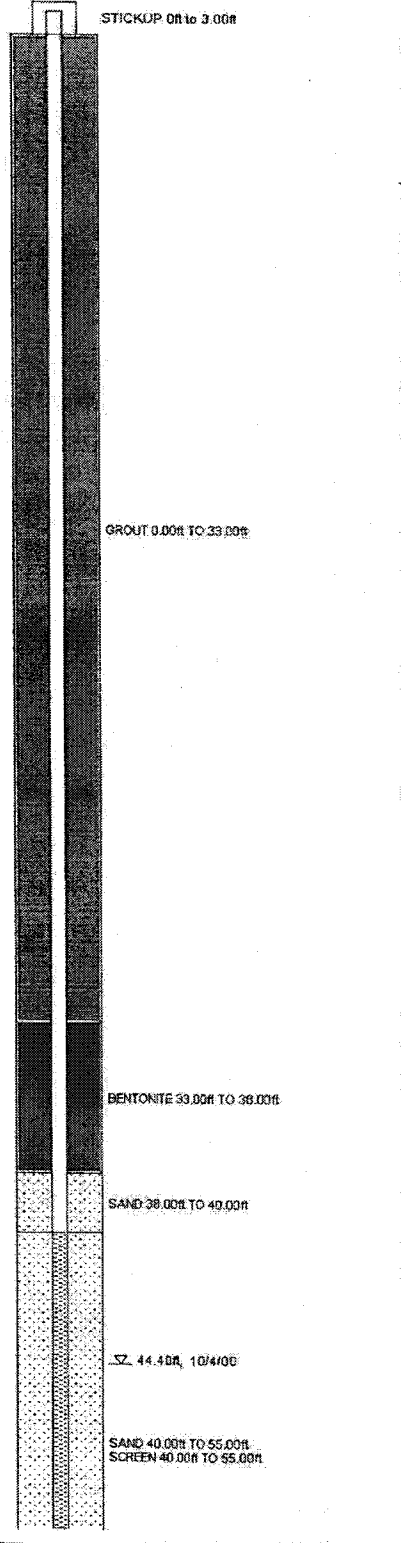
BORING DATE: 10/4/00

DATUM: GROUND SURFACE

DIP:

LOGGED: Anne Perez

| DEPTH SCALE |      | BORING METHOD   | SOIL PROFILE   |               | Samples           |       |            |             | Concentration |       |    |     |   |    | HG-20 |    |    |    |     |  |
|-------------|------|---|--|---------------|-------------------|-------|------------|-------------|---------------|-------|----|-----|---|----|-------|----|----|----|-----|--|
| METRES      | FEET |   | DESCRIPTION  | STRATA PLOT   | DEPTH B.G.S. (ft) | Color | Moisture % | Consistency | Time          | LEL % | O2 | H2S | 0 | 20 |       | 40 | 60 | 80 | 100 |  |
| 0           | 0    |   | GROUND SURFACE   |               | 0                 |       |            |             |               |       |    |     |   |    |       |    |    |    |     |  |
| 1           | 2    | West Hazmat Drilling: Air Rotary with Percussion Hammering with a tri-cone rotary bit | (Began w/ steel conduction) Sandstone-fine to med grained, minor silts and v. crs sands; moderately sorted. color: brown 5/4 7.5 yr, moisture %: slightly moist, consistency mod dense. Remark: Erosion from run-off might be a problem in a wet winter. | [Strata Plot] |                   | brwn  | s.m.       | m.d.        | 0856          | ■     | ●  |     |   |    |       |    |    |    |     |  |
| 3           | 4    |   | Sandstone - fine grained; minor crs/crs grains (sub-angular to angular); moderately sorted. Color: brown 5/4 7.5 yr; moisture %: slightly moist; Consistency: mod. density. Open hole at 20 feet.  | [Strata Plot] | 10                | brwn  | s.m.       | m.d.        | 0909          | ■     | ●  |     |   |    |       |    |    |    |     |  |
| 5           | 6    |   | Same as @ 20 but with color change. Color: 2.54Yr light olive brown 5/4  | [Strata Plot] | 20                | brwn  | s.m.       | m.d.        | 0916          | ■     | ●  |     |   |    |       |    |    |    |     |  |
| 7           | 8    |   | @ 23 feet - driller brought a sample of fine to gravelly sand. Color: Olive yellow 6/8 (possibly decomposing granite) 2.54Yr. Slightly more moist.   | [Strata Plot] | 30                | obwh  | s.m.       | m.d.        |               |       |    |     |   |    |       |    |    |    |     |  |
| 9           | 10   |   | Sandstone - finer to medium grained (looked like a beach sand - almost salt and peppery); brown d.g (-up to 1 cm); moderately sorted. Color: 6/3 light yellowish brown 2.54  | [Strata Plot] | 33                | lyb   | s.m.       | m.d.        | 0936          | ■     | ●  |     |   |    |       |    |    |    |     |  |
| 11          | 12   |   | Sandstone - finer to medium grained (looked like a beach sand - almost salt and peppery); minor d.g (-up to 1 cm); moderately sorted. Color: 6/3 light yellowish brown 2.5 Yr  | [Strata Plot] | 40                | lyb   | s.m.       | m.d.        | 0936          | ■     | ●  |     |   |    |       |    |    |    |     |  |
| 13          | 14   |   | 45 feet hit bedrock or large boulder. Stopped drilling @ 47 feet - began again.  | [Strata Plot] | 45                |       |            |             |               |       |    |     |   |    |       |    |    |    |     |  |
| 14          | 15   |   | Bedrock - granodiorite.  | [Strata Plot] | 47                |       |            |             |               |       |    |     |   |    |       |    |    |    |     |  |
| 15          | 50   |   |  |               |                   |       |            |             |               |       |    |     |   |    |       |    |    |    |     |  |



DRAWN: Panda Workman

Riverside County Waste Management Department

CHECKED:

PROJECT: HG-20

# Highgrove Sanitary Landfill HG-20

LOCATION: Highgrove Landfill

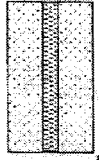
BORING DATE: 10/4/00

DATE: GROUND SURFACE

DIP:

LOGGED: Anne Perez

| DEPTH SCALE |      | BORING METHOD   | SOIL PROFILE  |             | Samples           |       |            | Concentration |      |       |    |     | HG-20 |  |  |  |  |
|-------------|------|---|---|-------------|-------------------|-------|------------|---------------|------|-------|----|-----|-------|--|--|--|--|
| METRES      | FEET |   | DESCRIPTION   | STRATA PLOT | DEPTH B.G.S. (ft) | Color | Moisture % | Consistency   | Time | LEL % | O2 | H2S |       |  |  |  |  |
| 50          |      | West Hazmat Drilling: Air Rotary with Percussion Hammering with a tri-cone rotary bit |   | 50          |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 52          | 16   |   | Wet Zone (52 ft) - alluvium (dg) Stopped at 55 ft (Can hear water dripping in borehole @ 10:15 am, but water would not register on Solinst) |             |                   |       |            |               | 1012 |       |    |     |       |  |  |  |  |
| 54          |      |   |   | 55.00       |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 56          | 17   |   | END OF EXPLORATION @ 55.00ft  |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 58          |      |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 60          | 18   |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 62          | 19   |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 64          |      |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 66          | 20   |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 68          |      |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 70          | 21   |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 72          | 22   |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 74          |      |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 76          | 23   |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 78          |      |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 80          | 24   |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 82          |      |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 84          | 25   |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 86          |      |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 88          | 26   |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 90          |      |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 92          | 27   |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 94          |      |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 96          | 28   |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 98          |      |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |
| 100         | 29   |   |   |             |                   |       |            |               |      |       |    |     |       |  |  |  |  |



END OF EXPLORATION

DRAWN: Panda Workman

Riverside County Waste Management Department

CHECKED:

PROJECT: HG-21

LOCATION: Highgrove Landfill

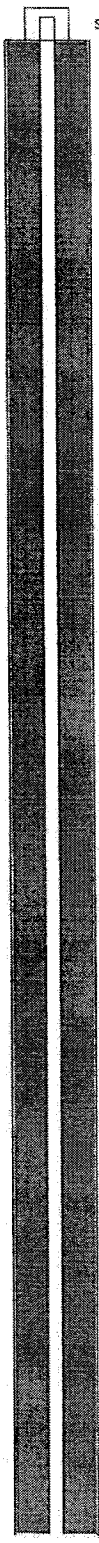
BORING DATE: October 3, 2000

DATUM: GROUND SURFACE

DIP:

LOGGED: Anne Perez

| DEPTH SCALE |      | BORING METHOD  | SOIL PROFILE  |             | Samples           |       |            | Concentration |      |       |    |     | HG-21 |     |  |  |
|-------------|------|--|---|-------------|-------------------|-------|------------|---------------|------|-------|----|-----|-------|-----|--|--|
| METRES      | FEET |  | DESCRIPTION   | STRATA PLOT | DEPTH B.G.S. (ft) | Color | Moisture % | Consistency   | Time | LEL % | O2 | H2S |       |     |  |  |
|             |      |  |   |             |                   |       |            |               | 0    | 20    | 40 | 60  | 80    | 100 |  |  |
| 0           | 0    | West Hazmat: Air Rotary with Percussion Hammering with a tri-cone rotary bit | GROUND SURFACE  |             |                   |       |            |               |      |       |    |     |       |     |  |  |
| 1           | 4    |  | (Began w/ steel conductor casing)<br>Sandstone-medium to crs sand; minor fine/silt; poorly sorted, minor gravel (~1 cm avg). Color: 7.5 yr Brown 5/4 Moisture %: slightly moist Consistency: mod density                |             | 11                | brwn  | s.m.       | m.d.          | 0847 | ■     | ●  |     |       |     |  |  |
| 2           | 6    |  |   |             |                   |       |            |               |      |       |    |     |       |     |  |  |
| 3           | 10   |  |   |             | 10                | brwn  | s.m.       | m.d.          | 0903 | ■     | ●  |     |       |     |  |  |
| 4           | 14   |  | Gravelly Sandstone - y. crs to crs sand to gravelly, minor, poorly sorted; gravels are ~1 cm avg. (Gravel is possible decomposed granite) Color: 7.5 yr Brown 5/4, Moisture %: slightly moist, Consistency: mod density |             |                   | brwn  | s.m.       | m.d.          | 0903 | ■     | ●  |     |       |     |  |  |
| 5           | 16   |  |   |             |                   |       |            |               |      |       |    |     |       |     |  |  |
| 6           | 20   |  |   |             | 20                | ybrn  | s.m.       | m.d.          | 0912 | ■     | ●  |     |       |     |  |  |
| 7           | 24   |  | Sandstone - same as @ 10 feet Color: 10 yr 5/6 yellowish brown; Moisture %: slightly moist; Consistency: mod density  |             |                   | ybrn  | s.m.       | m.d.          | 0912 | ■     | ●  |     |       |     |  |  |
| 8           | 26   |  |   |             |                   |       |            |               |      |       |    |     |       |     |  |  |
| 9           | 30   |  |   |             | 30                | brwn  | s.m.       | m.d.          | 0927 | ■     | ●  |     |       |     |  |  |
| 10          | 32   |  |   |             |                   |       |            |               |      |       |    |     |       |     |  |  |
| 11          | 34   |  | Sandstone - fine to med gr; moderately sorted, minor v. crs to gravels. Color: 7.5 yr 5/4 Brown, Moisture %: slightly moist; Consistency: mod density   |             |                   | brwn  | s.m.       | m.d.          | 0927 | ■     | ●  |     |       |     |  |  |
| 12          | 40   |  |   |             | 40                | brwn  | s.m.       | m.d.          | 0942 | ■     | ●  |     |       |     |  |  |
| 13          | 42   |  |   |             |                   |       |            |               |      |       |    |     |       |     |  |  |
| 14          | 46   |  | Gravelly Sandstone - same as @ 20 feet. Color: Brown 5/6; Moisture %: slightly moist; Consistency: mod density  |             |                   | brwn  | s.m.       | m.d.          | 0942 | ■     | ●  |     |       |     |  |  |
| 15          | 50   |  |   |             |                   |       |            |               |      |       |    |     |       |     |  |  |



Continued on next page

DRAWN: Panda Wolkman

Riverside County Waste Management Department

CHECKED:

PROJECT: HG-21

LOCATION: Highgrove Landfill

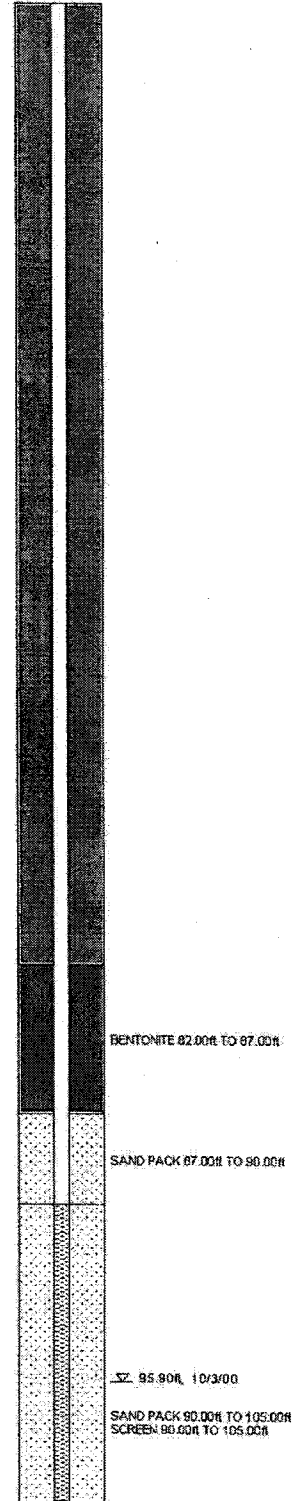
BORING DATE: October 3, 2000

DATUM: GROUND SURFACE

DIP:

LOGGED: Anne Perez

| DEPTH SCALE |      | BORING METHOD  | SOIL PROFILE   |               | Samples           |       |            |             | Concentration |       |    |     |  | HG-21 |  |  |  |  |  |
|-------------|------|--|--|---------------|-------------------|-------|------------|-------------|---------------|-------|----|-----|--|-------|--|--|--|--|--|
| METRES      | FEET |  | DESCRIPTION  | STRATA PLOT   | DEPTH B.G.S. (ft) | Color | Moisture % | Consistency | Time          | LEL % | D2 | H2S |  |       |  |  |  |  |  |
| 50          | 16   | West Hazmat Air Rotary with Percussion Hammering with a tri-cone relay bit | Sandstone - fine to medium; minor v. crs. ~1/2 cm gravels, moderately sorted. Color brown 5/8; Moisture % slightly moist; Consistency: mod density | [Strata Plot] | 50                | brwn  | s.m.       | m.d.        | 1004          | ◆     | ◆  |     |  |       |  |  |  |  |  |
| 52          |      |  |  |               |                   |       |            |             |               |       |    |     |  |       |  |  |  |  |  |
| 54          |      |  |  |               |                   |       |            |             |               |       |    |     |  |       |  |  |  |  |  |
| 56          |      |  |  |               |                   |       |            |             |               |       |    |     |  |       |  |  |  |  |  |
| 58          | 19   | West Hazmat Air Rotary with Percussion Hammering with a tri-cone relay bit | Sandstone - fine to crs; poorly sorted; minor gravels (~1/2 cm). Color: Brown 5/8; Moisture % slightly moist; Consistency: mod density             | [Strata Plot] | 50                | brwn  | s.m.       | m.d.        | 1017          | ◆     | ◆  |     |  |       |  |  |  |  |  |
| 60          |      |  |  |               |                   |       |            |             |               |       |    |     |  |       |  |  |  |  |  |
| 62          |      |  |  |               |                   |       |            |             |               |       |    |     |  |       |  |  |  |  |  |
| 64          |      |  |  |               |                   |       |            |             |               |       |    |     |  |       |  |  |  |  |  |
| 66          | 20   | West Hazmat Air Rotary with Percussion Hammering with a tri-cone relay bit | Sandstone - fine to med; moderately sorted; minor v. crs grains. Color: brown 5/8; Moisture % slightly moist; Consistency: mod density             | [Strata Plot] | 70                | brwn  | s.m.       | m.d.        | 1035          | ◆     | ◆  |     |  |       |  |  |  |  |  |
| 68          |      |  |  |               |                   |       |            |             |               |       |    |     |  |       |  |  |  |  |  |
| 70          |      |  |  |               |                   |       |            |             |               |       |    |     |  |       |  |  |  |  |  |
| 72          |      |  |  |               |                   |       |            |             |               |       |    |     |  |       |  |  |  |  |  |
| 74          | 22   | West Hazmat Air Rotary with Percussion Hammering with a tri-cone relay bit | Sandstone - fine to v. crs graded poorly sorted. Color: Brown 5/8; Moisture % moist. At 90 feet the driller switched to open hole drilling.        | [Strata Plot] | 80                | brwn  | mois       | 1047        | ◆             | ◆     |    |     |  |       |  |  |  |  |  |
| 76          |      |  |  |               |                   |       |            |             |               |       |    |     |  |       |  |  |  |  |  |
| 78          |      |  |  |               |                   |       |            |             |               |       |    |     |  |       |  |  |  |  |  |
| 80          |      |  |  |               |                   |       |            |             |               |       |    |     |  |       |  |  |  |  |  |
| 82          | 25   | West Hazmat Air Rotary with Percussion Hammering with a tri-cone relay bit | Sandstone - crs to v. crs to gravelly; very minor fines; moderately sorted. Moisture % moist to wet.   | [Strata Plot] | 90                | m.w.  |            | 1052        | ◆             | ◆     |    |     |  |       |  |  |  |  |  |
| 84          |      |  |  |               |                   |       |            |             |               |       |    |     |  |       |  |  |  |  |  |
| 86          |      |  |  |               |                   |       |            |             |               |       |    |     |  |       |  |  |  |  |  |
| 88          |      |  |  |               |                   |       |            |             |               |       |    |     |  |       |  |  |  |  |  |
| 90          | 27   | West Hazmat Air Rotary with Percussion Hammering with a tri-cone relay bit |  | [Strata Plot] |                   |       |            |             |               |       |    |     |  |       |  |  |  |  |  |
| 92          |      |  |  |               |                   |       |            |             |               |       |    |     |  |       |  |  |  |  |  |
| 94          |      |  |  |               |                   |       |            |             |               |       |    |     |  |       |  |  |  |  |  |
| 96          |      |  |  |               |                   |       |            |             |               |       |    |     |  |       |  |  |  |  |  |
| 98          | 29   | West Hazmat Air Rotary with Percussion Hammering with a tri-cone relay bit |  | [Strata Plot] |                   |       |            |             |               |       |    |     |  |       |  |  |  |  |  |
| 100         |      |  |  |               |                   |       |            |             |               |       |    |     |  |       |  |  |  |  |  |



Continued on next page

PROJECT: HG-21

LOCATION: Highgrove Landfill

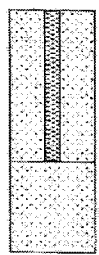
BORING DATE: October 3, 2000

DATUM: GROUND SURFACE

DIP:

LOGGED: Anne Perez

| DEPTH SCALE |      | BORING METHOD  | SOIL PROFILE   |                 | Samples           |       |            | Concentration |      |       |    |     | HG-21 |     |
|-------------|------|--|--|-----------------|-------------------|-------|------------|---------------|------|-------|----|-----|-------|-----|
| METRES      | FEET |  | DESCRIPTION  | STRATA PLOT     | DEPTH B.G.S. (ft) | Color | Moisture % | Consistency   | Time | LEL % | O2 | H2S |       |     |
|             |      |  |  |                 |                   |       |            |               | 0    | 70    | 40 | 60  | 80    | 100 |
| 31          | 102  | West Hazmat: Air Rotary with Percussion Hammering with a tri-cone rotary bit | Decomposing Granite. Hit groundwater at 104 feet. Bottom of well 109 feet. | [Patterned Box] | 100               | wet   |            | 1100          | ◆    | ◆     |    |     |       |     |
| 32          | 104  |  |  |                 |                   |       |            |               |      |       |    |     |       |     |
| 33          | 108  |  | END OF EXPLORATION @ 108.00ft  |                 | 108.00            |       |            |               |      |       |    |     |       |     |
| 34          | 112  |  |  |                 |                   |       |            |               |      |       |    |     |       |     |
| 35          | 116  |  |  |                 |                   |       |            |               |      |       |    |     |       |     |
| 36          | 118  |  |  |                 |                   |       |            |               |      |       |    |     |       |     |
| 37          | 122  |  |  |                 |                   |       |            |               |      |       |    |     |       |     |
| 38          | 124  |  |  |                 |                   |       |            |               |      |       |    |     |       |     |
| 39          | 128  |  |  |                 |                   |       |            |               |      |       |    |     |       |     |
| 40          | 130  |  |  |                 |                   |       |            |               |      |       |    |     |       |     |
| 41          | 132  |  |  |                 |                   |       |            |               |      |       |    |     |       |     |
| 42          | 134  |  |  |                 |                   |       |            |               |      |       |    |     |       |     |
| 43          | 136  |  |  |                 |                   |       |            |               |      |       |    |     |       |     |
| 44          | 138  |  |  |                 |                   |       |            |               |      |       |    |     |       |     |
| 45          | 140  |  |  |                 |                   |       |            |               |      |       |    |     |       |     |
|             | 142  |  |  |                 |                   |       |            |               |      |       |    |     |       |     |
|             | 144  |  |  |                 |                   |       |            |               |      |       |    |     |       |     |
|             | 146  |  |  |                 |                   |       |            |               |      |       |    |     |       |     |
|             | 148  |  |  |                 |                   |       |            |               |      |       |    |     |       |     |
|             | 150  |  |  |                 |                   |       |            |               |      |       |    |     |       |     |



SAND PACK (05.00ft TO 108.00ft)  
END OF EXPLORATION

PROJECT: Pump and Treat  
 LOCATION: Highgrove Landfill  
 BORING DATE: January 7, 2002

## Extraction Well HG-22

DATUM: GROUND SURFACE

DIP:

LOGGED: Panda Workman

| DEPTH SCALE |      | BORING METHOD            | SOIL PROFILE  |             | Field Notes       |       |          | Concentration |  |    |    |    |     |  |
|-------------|------|--------------------------|---|-------------|-------------------|-------|----------|---------------|--|----|----|----|-----|--|
| METRES      | FEET |                          | DESCRIPTION   | STRATA PLOT | DEPTH B.G.S. (ft) | Color | Moisture | Remarks       | 1.E.L. <span style="font-size: small;">◆</span><br>Moisture Content <span style="font-size: small;">●</span><br>Gas Concentration <span style="font-size: small;">■</span> |    |    |    |     |  |
| 0           | 0    |                          | GROUND SURFACE  | 0           |                   |       |          | 0             | 20   | 40 | 60 | 80 | 100 |  |
| 2           | 4    | Air Relay - Tri Bit Core | Medium Sand (sub angular) - Slightly moist. Loose drilling. Color: light brown  |             | BRN               | Yes   |          |               |  |    |    |    |     |  |
| 4           | 8    |                          | Very Coarse sand w/ some clay - Slightly moist At 17 feet Open Hole Drilling (Terrace deposit) (?) Color: light brown |             | BRN               | Yes   |          |               |  |    |    |    |     |  |
| 6           | 12   |                          | Fine to coarse gravel; Color: Light Gray. Slightly moist  | 20          | LGRY              | Yes   |          |               |  |    |    |    |     |  |
| 8           | 16   |                          | Weathered Bedrock. Color Light Gray Slightly Moist igneous Intrusive (?)  | 37          | LGRY              | Yes   |          |               |  |    |    |    |     |  |
| 10          | 20   |                          | Weathered bedrock (?) Soil cuttings sand size. Color - Brown/Moist  | 40          |                   |       |          |               |  |    |    |    |     |  |
| 12          | 24   |                          | END OF EXPLORATION @ 50.00ft  | 50.00       |                   |       |          |               |  |    |    |    |     |  |

HG-22

PROJECT: Pump and Treat  
 LOCATION: Highgrass Landfill  
 BORING DATE: January 8, 2002

### Extraction Well HG-23

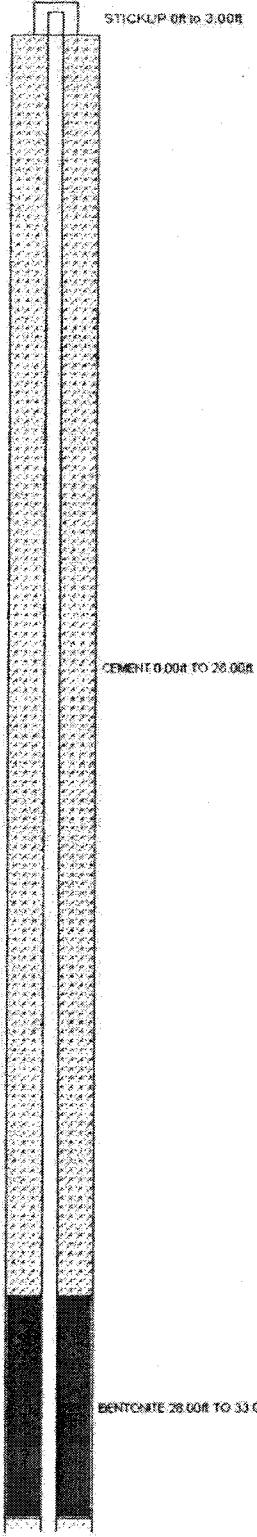
Page 1 of 2

DATUM: GROUND SURFACE

DP:

LOGGED: Panda Workman

| DEPTH SCALE |      | BORING METHOD   | SOIL PROFILE  |                         | Field Notes       |       |          | Concentration |     |                  |                   |       |  |
|-------------|------|---|---|-------------------------|-------------------|-------|----------|---------------|-----|------------------|-------------------|-------|--|
| METRES      | FEET |   | DESCRIPTION   | STRATA PLOT             | DEPTH B.G.S. (ft) | Color | Moisture | Remarks       | LEL | Moisture Content | Gas Concentration | HG-23 |  |
| 0           | 0    |   | GROUND SURFACE  | 0                       |                   |       |          |               |     |                  |                   |       |  |
| 2           | 4    | Air Relay - Tri Rit Cone  | Fill: Coarse Sand (Sub-rounded Pebbles) - Color: Light Brownish Gray - Slightly Moist | [Cross-hatched pattern] | 0                 | LBO   | Yes      |               |     |                  |                   |       |  |
| 4           | 6    |   |   |                         |                   |       |          |               |     |                  |                   |       |  |
| 6           | 8    |   |   |                         |                   |       |          |               |     |                  |                   |       |  |
| 8           | 10   |   | Fill: Coarse Sand (sub-rounded pebbles) - Color: Light Brownish Gray                  | [Cross-hatched pattern] | 10                | LBO   | Yes      |               |     |                  |                   |       |  |
| 10          | 12   |   |   |                         |                   |       |          |               |     |                  |                   |       |  |
| 12          | 14   | Landscaping debris (small wood chips) mixed with newspaper pieces                                     | [Horizontal lines pattern]  | 15                      |                   |       |          |               |     |                  |                   |       |  |
| 14          | 16   | Fill: Coarse Sand (sub-rounded pebbles) - Color: light brownish gray - slightly moist                 | [Cross-hatched pattern]   | 16                      |                   |       |          |               |     |                  |                   |       |  |
| 16          | 18   |   |   |                         |                   |       |          |               |     |                  |                   |       |  |
| 18          | 20   | Fill: Landscaping debris (small wood chips - 3") mixed with trash                                     | [Horizontal lines pattern]  | 24                      |                   |       |          |               |     |                  |                   |       |  |
| 20          | 22   |   |   |                         |                   |       |          |               |     |                  |                   |       |  |
| 22          | 24   | Med sand well graded (no pebbles) Open hole drilling at 26 feet - Color: light brown - slightly moist | [Dotted pattern]  | 26                      | BRW               | Yes   |          |               |     |                  |                   |       |  |
| 24          | 26   |   |   |                         |                   |       |          |               |     |                  |                   |       |  |
| 26          | 28   | Fine Sand - Color: Light Brown  | [Dotted pattern]  | 30                      | BRW               |       |          |               |     |                  |                   |       |  |
| 28          | 30   |   |   |                         |                   |       |          |               |     |                  |                   |       |  |
| 30          | 32   |   |   |                         |                   |       |          |               |     |                  |                   |       |  |



Continued on next page



PROJECT: Pump and Treat  
 LOCATION: Highgrove Landfill  
 BORING DATE: January 6, 2002

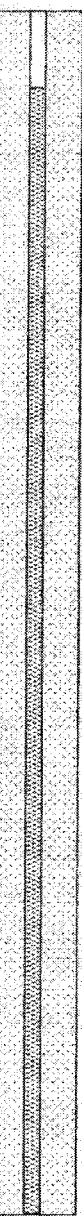
### Extraction Well HG-23

DATUM: GROUND SURFACE

DP:

LOGGED: Panda Workman

| DEPTH SCALE |      | BORING METHOD             | SOIL PROFILE  |             | Field Notes |          |         | Concentration |                  |                   |   |    |    |    |    |     |
|-------------|------|---------------------------|---|-------------|-------------|----------|---------|---------------|------------------|-------------------|---|----|----|----|----|-----|
| METRES      | FEET |                           | DESCRIPTION   | STRATA PLOT | Color       | Moisture | Remarks | LEL           | Moisture Content | Gas Concentration | 0 | 20 | 40 | 60 | 80 | 100 |
| 11          | 34   | Air Rotary - Tri Bit Core | Fine Sand - Color: Light Brown  |             | -BRN        |          |         |               |                  |                   |   |    |    |    |    |     |
|             | 36   |                           |   |             |             |          |         |               |                  |                   |   |    |    |    |    |     |
| 12          | 38   |                           | Fine sand - Color: Light Brown  |             |             |          |         |               |                  |                   |   |    |    |    |    |     |
|             | 40   |                           |   |             |             |          |         |               |                  |                   |   |    |    |    |    |     |
| 13          | 42   |                           |   |             |             |          |         |               |                  |                   |   |    |    |    |    |     |
|             | 44   |                           |   |             |             |          |         |               |                  |                   |   |    |    |    |    |     |
| 14          | 46   |                           | Hit bedrock at 42. Gravelly clay with some pebbles - Color: light gray-brown - moist                                    |             | LBG         | Yes      |         |               |                  |                   |   |    |    |    |    |     |
|             | 48   |                           |   |             |             |          |         |               |                  |                   |   |    |    |    |    |     |
| 15          | 50   |                           |   |             |             |          |         |               |                  |                   |   |    |    |    |    |     |
|             | 52   |                           |   |             |             |          |         |               |                  |                   |   |    |    |    |    |     |
| 16          | 54   |                           |   |             |             |          |         |               |                  |                   |   |    |    |    |    |     |
|             | 56   |                           | Some gravelly clay cuttings present, mostly likely shavings off from borehole above. color: light brownish gray - moist |             | LBG         | Yes      |         |               |                  |                   |   |    |    |    |    |     |
|             | 58   |                           |   |             |             |          |         |               |                  |                   |   |    |    |    |    |     |
| 17          | 60   |                           | END OF EXPLORATION @ 60.00ft  |             |             |          |         |               |                  |                   |   |    |    |    |    |     |
|             | 62   |                           |   |             |             |          |         |               |                  |                   |   |    |    |    |    |     |
| 18          | 64   |                           |   |             |             |          |         |               |                  |                   |   |    |    |    |    |     |
|             | 66   |                           |   |             |             |          |         |               |                  |                   |   |    |    |    |    |     |



▽ 44.00ft, 1/8"Ø  
 SAND PACK 33.00ft TO 60.00ft  
 SCREEN 25.00ft TO 60.00ft

END OF EXPLORATION

PROJECT: Pump and Treat  
 LOCATION: Highgrove Landfill  
 BORING DATE: January 9, 2002

## Extraction Well HG-24

DATE: GROUND SURFACE

DBP:

LOGGED: Panda Workman

| DEPTH SCALE |      | BORING METHOD   | SOIL PROFILE |             | Field Notes       |       |          | Concentration |     |                  |                   |   |  |  |
|-------------|------|---|--------------|-------------|-------------------|-------|----------|---------------|-----|------------------|-------------------|---|--|--|
| METRES      | FEET |   | DESCRIPTION  | STRATA PLOT | DEPTH B.G.S. (ft) | Color | Moisture | Remarks       | LEL | Moisture Content | Gas Concentration |   |  |  |
|             |      |   |              |             |                   |       |          |               | ◆   | ◆                | ■                 | HG-24   |  |  |
| 0           | 0    |   |              |             |                   |       |          |               |     |                  |                   | STICKUP 0.0R to 3.00R   |  |  |
|             | 2    |   |              |             |                   |       |          |               |     |                  |                   | <p style="text-align: center;">CEMENT 0.00R TO 40.50R</p> <p style="text-align: center;">BENTONITE 40.50R TO 46.00R</p> |  |  |
| 1           | 4    | Fill (cover material) Coarse sand with pebbles - color: brown - dry   |              |             | brwn              | No    |          |               |     |                  |                   |   |  |  |
|             | 6    |   |              |             |                   |       |          |               |     |                  |                   |   |  |  |
| 2           | 8    |   |              |             |                   |       |          |               |     |                  |                   |   |  |  |
| 3           | 10   | Fill (refuse) landscaping debris - similar to green waste placed at the site. ~1" to 8" in length. Color: brown - no odor   |              | 10          | brwn              |       |          |               |     |                  |                   |   |  |  |
|             | 12   |   |              | 12          |                   |       |          |               |     |                  |                   |   |  |  |
| 4           | 14   | Fill (refuse) More landscaping debris. Blackish brown in color with a foul odor   |              |             |                   |       |          |               |     |                  |                   |   |  |  |
|             | 16   |   |              | 15          |                   |       |          |               |     |                  |                   |   |  |  |
| 5           | 18   | Fill (refuse) Medium sand with clay, some pebbles and wood pieces. dark brown gray in color, no odor, can make a clay ball, slightly moist. Landscaping debris stopped at 21 feet |              |             |                   |       |          |               |     |                  |                   |   |  |  |
|             | 20   |   |              | 20          | brwn              | yes   |          |               |     |                  |                   |   |  |  |
|             | 22   | Color change from dark brown gray to a brown  |              | 21          |                   |       |          |               |     |                  |                   |   |  |  |
| 7           | 24   |   |              |             |                   |       |          |               |     |                  |                   |   |  |  |
|             | 26   | Open hole at 27 feet. Coarse sand with pebbles, some clay. Color: Brown - slightly moist  |              |             |                   |       |          |               |     |                  |                   |   |  |  |
| 8           | 28   |   |              |             |                   |       |          |               |     |                  |                   |   |  |  |
|             | 30   |   |              | 30          |                   |       |          |               |     |                  |                   |   |  |  |
| 9           | 32   |   |              |             |                   |       |          |               |     |                  |                   |   |  |  |
|             | 34   |   |              |             |                   |       |          |               |     |                  |                   |   |  |  |
| 10          | 36   | Coarse sand with pebbles, some clay. Color: Brown - slightly moist  |              |             |                   |       |          |               |     |                  |                   |   |  |  |
|             | 38   |   |              |             |                   |       |          |               |     |                  |                   |   |  |  |
| 11          | 40   |   |              | 40          | brwn              | yes   |          |               |     |                  |                   |   |  |  |
|             | 42   |   |              |             |                   |       |          |               |     |                  |                   |   |  |  |
| 12          | 44   | Coarse sand with pebbles, some clay. Color: Brown - slightly moist  |              |             |                   |       |          |               |     |                  |                   |   |  |  |
|             | 46   |   |              |             |                   |       |          |               |     |                  |                   |   |  |  |
| 13          | 48   |   |              |             |                   |       |          |               |     |                  |                   |   |  |  |
|             | 50   | Bedrock: coarse sand with small pebbles. Color: Brown - slightly moist  |              | 49          |                   |       |          |               |     |                  |                   |   |  |  |

Air Rotary - Tri-Bit Cone

Continued on next page







PROJECT: Pump and Treat  
 LOCATION: Highgrove Landfill  
 BORING DATE: January 3, 2002

### Extraction Well HG-25

DATUM: GROUND SURFACE

DIP:

LOGGED: Panda Workman

| DEPTH SCALE |      | BORING METHOD             | SOIL PROFILE                               |             | Field Notes       |       |          | Concentration |     |                  |                   |   |    |    |    |    |     |  |
|-------------|------|---------------------------|--|-------------|-------------------|-------|----------|---------------|-----|------------------|-------------------|---|----|----|----|----|-----|--|
| METRES      | FEET |                           | DESCRIPTION                                | STRATA PLOT | DEPTH B.G.S. (ft) | Color | Moisture | Remarks       | LEL | Moisture Content | Gas Concentration | 0 | 20 | 40 | 60 | 80 | 100 |  |
| 31          | 102  | Air Rotary - Tri Bit Core | Gravelly with granules. Color: Brown. Wet. |             | 101               |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             |      |                           | END OF EXPLORATION @ 101.00ft              |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 32          | 106  |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 33          | 108  |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 34          | 112  |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 35          | 114  |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 36          | 118  |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 37          | 122  |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 38          | 124  |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 39          | 128  |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 40          | 130  |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 41          | 132  |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 42          | 134  |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 43          | 136  |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 44          | 138  |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 45          | 140  |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 142  |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 144  |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 146  |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 148  |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 150  |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |



HG-25



END OF EXPLORATION

PROJECT: Pump and Treat  
 LOCATION: Highgrove Landfill  
 BORING DATE: Jan. 10, 2002

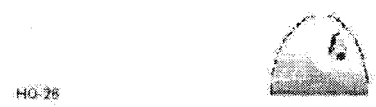
### Extraction Well HG-26

DATUM: GROUND SURFACE

DIP:

LOGGED: Panda Workman

| DEPTH SCALE |      | BORING METHOD             | SOIL PROFILE   |             | Field Notes       |       |          | Concentration |     |                  |                   |  |  |  |  |  |  |  |
|-------------|------|---------------------------|--|-------------|-------------------|-------|----------|---------------|-----|------------------|-------------------|--|--|--|--|--|--|--|
| METRES      | FEET |                           | DESCRIPTION  | STRATA PLOT | DEPTH B.G.S. (ft) | Color | Moisture | Remarks       | LEL | Moisture Content | Gas Concentration |  |  |  |  |  |  |  |
| 0           | 0    |                           | GROUND SURFACE   |             | 0                 |       |          |               |     |                  |                   |  |  |  |  |  |  |  |
| 1           | 2    |                           | Fill cover: Soft sand with pebbles (~30 mm) mixed with some glass pieces. Color: Chocolate Brown. Slightly moist |             |                   | tbwn  | yes      |               |     |                  |                   |  |  |  |  |  |  |  |
| 2           | 4    |                           |  |             |                   |       |          |               |     |                  |                   |  |  |  |  |  |  |  |
| 2           | 6    |                           | Fine sand (very soft) with granules. No glass pieces. Color: Chocolate Brown. Slightly moist                     |             | 6                 | tbwn  | yes      |               |     |                  |                   |  |  |  |  |  |  |  |
| 3           | 8    |                           |  |             |                   |       |          |               |     |                  |                   |  |  |  |  |  |  |  |
| 4           | 10   |                           |  |             | 10                |       |          |               |     |                  |                   |  |  |  |  |  |  |  |
| 4           | 12   |                           |  |             |                   |       |          |               |     |                  |                   |  |  |  |  |  |  |  |
| 5           | 14   |                           | Fine to medium sand with some pebbles (~10mm). Easy drilling. Color: Brown. Slightly moist                       |             |                   | brwn  | yes      |               |     |                  |                   |  |  |  |  |  |  |  |
| 5           | 16   |                           |  |             |                   |       |          |               |     |                  |                   |  |  |  |  |  |  |  |
| 6           | 18   |                           |  |             |                   |       |          |               |     |                  |                   |  |  |  |  |  |  |  |
| 6           | 20   |                           |  |             | 20                |       |          |               |     |                  |                   |  |  |  |  |  |  |  |
| 7           | 22   |                           |  |             |                   |       |          |               |     |                  |                   |  |  |  |  |  |  |  |
| 8           | 24   | Air Rotary - Tri Bit Cone | Fine to medium sand with some pebbles (~10mm). Easy drilling. Color: Brown. Slightly moist                       |             |                   | brwn  | yes      |               |     |                  |                   |  |  |  |  |  |  |  |
| 8           | 26   |                           |  |             |                   |       |          |               |     |                  |                   |  |  |  |  |  |  |  |
| 9           | 28   |                           |  |             |                   |       |          |               |     |                  |                   |  |  |  |  |  |  |  |
| 9           | 30   |                           |  |             | 30                |       |          |               |     |                  |                   |  |  |  |  |  |  |  |
| 10          | 32   |                           |  |             |                   |       |          |               |     |                  |                   |  |  |  |  |  |  |  |
| 11          | 34   |                           | Medium to coarse sand. Color: brown. Slightly moist  |             |                   | brwn  | yes      |               |     |                  |                   |  |  |  |  |  |  |  |
| 11          | 36   |                           |  |             |                   |       |          |               |     |                  |                   |  |  |  |  |  |  |  |
| 12          | 38   |                           |  |             |                   |       |          |               |     |                  |                   |  |  |  |  |  |  |  |
| 12          | 40   |                           |  |             | 40                |       |          |               |     |                  |                   |  |  |  |  |  |  |  |
| 13          | 42   |                           |  |             |                   |       |          |               |     |                  |                   |  |  |  |  |  |  |  |
| 13          | 44   |                           |  |             |                   |       |          |               |     |                  |                   |  |  |  |  |  |  |  |
| 14          | 46   |                           | Mostly coarse sand with granules. Color: Brown. Slightly moist. Still easy drilling                              |             |                   | brwn  | yes      |               |     |                  |                   |  |  |  |  |  |  |  |
| 14          | 48   |                           |  |             |                   |       |          |               |     |                  |                   |  |  |  |  |  |  |  |
| 15          | 50   |                           |  |             |                   |       |          |               |     |                  |                   |  |  |  |  |  |  |  |



Continued on next page







PROJECT: Pump and Treat

# Extraction Well HG-27

Page 1 of 3

LOCATION: Highgrove Landfill

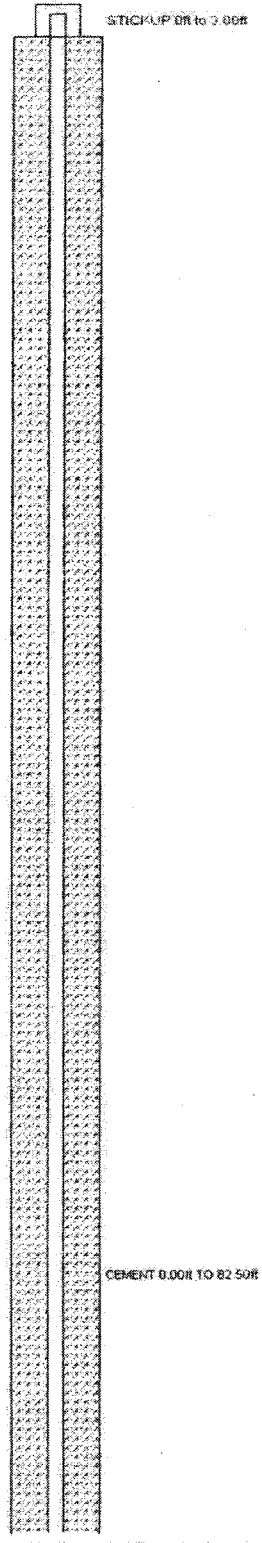
BORING DATE: Jan. 14, 2002

DATUM: GROUND SURFACE

BIP:

LOGGED: Panda Workman

| DEPTH SCALE |      | BORING METHOD             | SOIL PROFILE   |             | Field Notes       |       |          | Concentration |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
|-------------|------|---------------------------|--|-------------|-------------------|-------|----------|---------------|-----|------------------|-------------------|----|----|-----|--|--|---|--|----|------|-----|--|--|--|--|--|--|--|--|--|
| METRES      | FEET |                           | DESCRIPTION  | STRATA PLOT | DEPTH B.G.S. (ft) | Color | Moisture | Remarks       | LEL | Moisture Content | Gas Concentration |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
|             |      |                           |  |             |                   |       |          |               | 0   | 20               | 40                | 60 | 80 | 100 |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 0           | 0    |                           | GROUND SURFACE   |             | 0                 |       |          |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 1           | 2    | Air Rotary - Tru Bit Cone | Very coarse to coarse sand. Color: light brown. dry                              |             |                   | brwn  | No       |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 4           | 4    |                           |  |             |                   |       |          |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 2           | 6    |                           | Medium to coarse loose material. Color brown. Slightly moist                     |             | 10                | brwn  | yes      |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 8           | 8    |                           |  |             |                   |       |          |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 3           | 10   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |     |  |  | Medium to coarse sand. Easy drilling. Color brown. Slightly moist |  | 20 | brwn | yes |  |  |  |  |  |  |  |  |  |
| 4           | 12   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 5           | 14   |                           | Fine sand with fine gravel. Easy drilling. Color chocolate brown. Slightly moist |             | 30                | brwn  | yes      |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 6           | 16   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 7           | 18   |                           | Medium to coarse sand. Easy drilling. Color chocolate brown. Slightly moist      |             | 40                | brwn  | yes      |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 8           | 20   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 9           | 22   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |     |  |  | CEMENT 0.00R TO 82.50R  |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 10          | 24   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 11          | 26   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 12          | 28   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 13          | 30   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 14          | 32   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 15          | 34   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 16          | 36   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 17          | 38   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 18          | 40   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 19          | 42   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 20          | 44   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 21          | 46   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 22          | 48   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |
| 23          | 50   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |     |  |  |   |  |    |      |     |  |  |  |  |  |  |  |  |  |



Continued on next page

DRAWN: Panda Workman

Riverside County Waste Management Department

CHECKED:

PROJECT: Pump and Treat  
 LOCATION: Highgrove Landfill  
 BORING DATE: Jan. 14, 2002

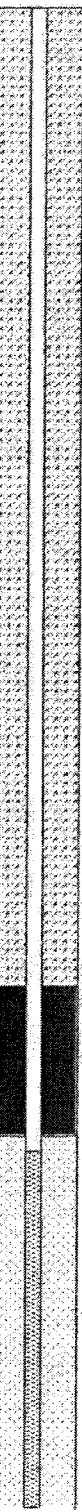
### Extraction Well HG-27

DATE: GROUND SURFACE

DIP:

LOGGED: Panda Workman

| DEPTH SCALE |      | BORING METHOD             | SOIL PROFILE   |             | Field Notes       |       |          | Concentration |     |                  |                   |   |    |    |    |    |     |  |
|-------------|------|---------------------------|--|-------------|-------------------|-------|----------|---------------|-----|------------------|-------------------|---|----|----|----|----|-----|--|
| METRES      | FEET |                           | DESCRIPTION  | STRATA PLOT | DEPTH B.G.S. (ft) | Color | Moisture | Remarks       | LEL | Moisture Content | Gas Concentration | 0 | 20 | 40 | 60 | 80 | 100 |  |
| 16          | 50   | Air Rotary - Tri Bit Cone |  |             | 50                |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 17          | 52   |                           | Very fine sand. Color: Chocolate brown. Slightly moist |             |                   | cbwn  | yes      |               |     |                  |                   |   |    |    |    |    |     |  |
| 18          | 54   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 19          | 56   |                           |  |             | 60                |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 20          | 58   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 21          | 60   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 22          | 62   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 23          | 64   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 24          | 66   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 25          | 68   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 26          | 70   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 27          | 72   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 28          | 74   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 29          | 76   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 30          | 78   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 80   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 82   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 84   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 86   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 88   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 90   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 92   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 94   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 96   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 98   |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 100  |                           |  |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |



BENTONITE 87.50ft TO 87.50ft

32 92.40ft, 3.46 gm, 1/14/02




PROJECT: Pump and Treat  
 LOCATION: Highgrove Landfill  
 BORING DATE: Jan. 14, 2002

### Extraction Well HG-27

DATUM: GROUND SURFACE

DIP:

LOGGED: Panda Workman

| DEPTH SCALE |      | BORING METHOD             | SOIL PROFILE  |                 | Field Notes       |       |          | Concentration |     |                  |                   |       |  |  |  |  |  |
|-------------|------|---------------------------|---|-----------------|-------------------|-------|----------|---------------|-----|------------------|-------------------|-------|--|--|--|--|--|
| METRES      | FEET |                           | DESCRIPTION   | STRATA PLOT     | DEPTH B.G.S. (ft) | Color | Moisture | Remarks       | LEL | Moisture Content | Gas Concentration |       |  |  |  |  |  |
|             |      |                           |   |                 |                   |       |          |               | ◆   | ◆                | ■                 | HG-27 |  |  |  |  |  |
| 31          | 102  | Air Rotary - Tir Bit Core | Bedrock - tailings consist of coarse to very coarse sized materials. Color: gray. Moist | [Patterned Box] | 100               | gray  | yes      |               |     |                  |                   |       |  |  |  |  |  <p>SCREEN 85.00ft TO 113.00ft<br/>         SAND PACK 87.50ft TO 115.00ft</p> |
| 32          | 106  |                           |   |                 | 110               | Many  | Wet      |               |     |                  |                   |       |  |  |  |  |  |
| 35          | 116  |                           | END OF EXPLORATION @ 116.00ft   |                 | 115.00            |       |          |               |     |                  |                   |       |  |  |  |  | END OF EXPLORATION   |
| 36          | 118  |                           |   |                 |                   |       |          |               |     |                  |                   |       |  |  |  |  |  |
| 37          | 122  |                           |   |                 |                   |       |          |               |     |                  |                   |       |  |  |  |  |  |
| 38          | 124  |                           |   |                 |                   |       |          |               |     |                  |                   |       |  |  |  |  |  |
| 39          | 128  |                           |   |                 |                   |       |          |               |     |                  |                   |       |  |  |  |  |  |
| 40          | 132  |                           |   |                 |                   |       |          |               |     |                  |                   |       |  |  |  |  |  |
| 41          | 134  |                           |   |                 |                   |       |          |               |     |                  |                   |       |  |  |  |  |  |
| 42          | 138  |                           |   |                 |                   |       |          |               |     |                  |                   |       |  |  |  |  |  |
| 43          | 142  |                           |   |                 |                   |       |          |               |     |                  |                   |       |  |  |  |  |  |
| 44          | 144  |                           |   |                 |                   |       |          |               |     |                  |                   |       |  |  |  |  |  |
| 45          | 148  |                           |   |                 |                   |       |          |               |     |                  |                   |       |  |  |  |  |  |
|             | 150  |                           |   |                 |                   |       |          |               |     |                  |                   |       |  |  |  |  |  |

PROJECT: Pump and Treat  
 LOCATION: Highgrove Landfill  
 BORING DATE: Jan. 15, 2002

# Extraction Well HG-28

DATUM: GROUND SURFACE

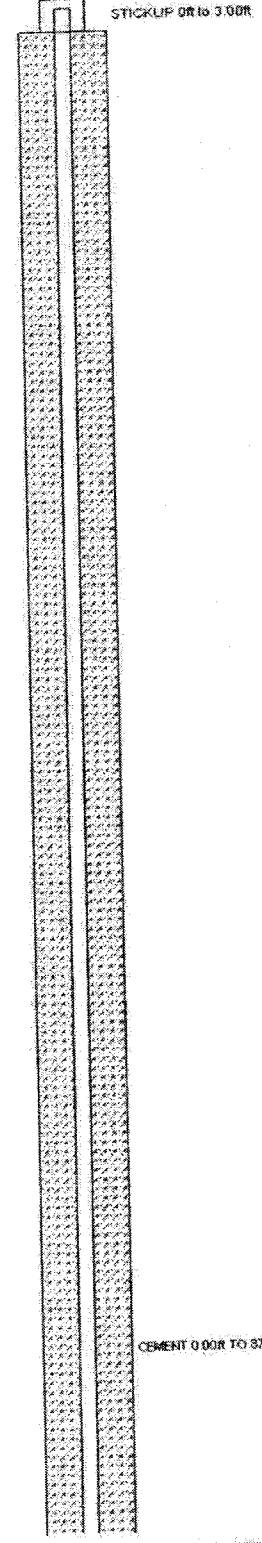
DIP:

LOGGED: Panda Workman

| DEPTH SCALE |      | BORING METHOD             | SOIL PROFILE  |             | Field Notes       |       |          | Concentration |     |                  |                   |  |  |  |
|-------------|------|---------------------------|---|-------------|-------------------|-------|----------|---------------|-----|------------------|-------------------|--|--|--|
| METRES      | FEET |                           | DESCRIPTION   | STRATA PLOT | DEPTH B.G.S. (ft) | Color | Moisture | Remarks       | LEL | Moisture Content | Gas Concentration |  |  |  |
| 0           | 0    |                           | GROUND SURFACE  | 0           |                   |       |          |               |     |                  |                   |  |  |  |
| 1           | 4    |                           | Fine to medium sand with some gravel. Color: brown. Slightly moist. |             | brwn              | yes   |          |               |     |                  |                   |  |  |  |
| 2           | 8    |                           |   |             |                   |       |          |               |     |                  |                   |  |  |  |
| 3           | 10   |                           | Fine to medium sand with some gravel. Color: brown. Slightly moist. |             | brwn              | yes   |          |               |     |                  |                   |  |  |  |
| 4           | 14   |                           |   |             |                   |       |          |               |     |                  |                   |  |  |  |
| 5           | 16   |                           |   |             |                   |       |          |               |     |                  |                   |  |  |  |
| 6           | 18   |                           |   |             |                   |       |          |               |     |                  |                   |  |  |  |
| 7           | 20   | Air Rotary - Tri-Bit Cone | Medium to coarse sand with gravel. Color brown. Slightly moist.     |             | brwn              | yes   |          |               |     |                  |                   |  |  |  |
| 8           | 24   |                           |   |             |                   |       |          |               |     |                  |                   |  |  |  |
| 9           | 26   |                           |   |             |                   |       |          |               |     |                  |                   |  |  |  |
| 10          | 30   |                           | Fine sand. Color: brown. Slightly moist. easy drilling.             |             | brwn              | yes   |          |               |     |                  |                   |  |  |  |
| 11          | 34   |                           |   |             |                   |       |          |               |     |                  |                   |  |  |  |
| 12          | 36   |                           |   |             |                   |       |          |               |     |                  |                   |  |  |  |
| 13          | 40   |                           |   |             |                   |       |          |               |     |                  |                   |  |  |  |
| 14          | 42   |                           | Fine sand with gravel. Color: brown. Slightly moist. easy drilling. |             | brwn              | yes   |          |               |     |                  |                   |  |  |  |
| 15          | 44   |                           |   |             |                   |       |          |               |     |                  |                   |  |  |  |
|             | 46   |                           |   |             |                   |       |          |               |     |                  |                   |  |  |  |
|             | 48   |                           |   |             |                   |       |          |               |     |                  |                   |  |  |  |
|             | 50   |                           |   |             |                   |       |          |               |     |                  |                   |  |  |  |



HG-28



Continued on next page

DRAWN: Panda Workman

Riverside County Waste Management Department

CHECKED:



PROJECT: Pump and Treat  
 LOCATION: Highgrove Landfill  
 BORING DATE: Jan. 15, 2002

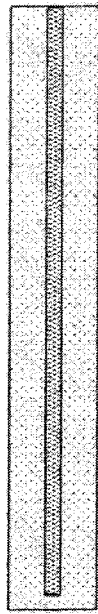
### Extraction Well HG-28

DATE: GROUND SURFACE

DIP:

LOGGED: Panda Workman

| DEPTH SCALE |      | BORING METHOD             | SOIL PROFILE  |                   | Field Notes       |       |          | Concentration |     |                  |                   |    |    |     |  |  |
|-------------|------|---------------------------|---|-------------------|-------------------|-------|----------|---------------|-----|------------------|-------------------|----|----|-----|--|--|
| METRES      | FEET |                           | DESCRIPTION   | STRATA PLOT       | DEPTH B.G.S. (ft) | Color | Moisture | Remarks       | LEL | Moisture Content | Gas Concentration |    |    |     |  |  |
|             |      |                           |   |                   |                   |       |          |               | ◆   | ●                | ■                 |    |    |     |  |  |
|             |      |                           |   |                   |                   |       |          |               | 0   | 20               | 40                | 60 | 80 | 100 |  |  |
| 31          | 102  | Air Rotary - Tri-Bit Cone | Weathered bedrock (?) tail cuttings consists of medium sand with pebbles. Color: light gray. Moist.                                     | [Hatched Pattern] | 100               | lgry  | yes      |               |     |                  |                   |    |    |     |  |  |
| 32          | 104  |                           |   |                   |                   |       |          |               |     |                  |                   |    |    |     |  |  |
| 33          | 106  |                           |   |                   |                   |       |          |               |     |                  |                   |    |    |     |  |  |
| 34          | 110  |                           | Weathered bedrock (?) tail cuttings consists of medium sand. Very hard drilling between 114 feet to 118 feet. Color: light gray. Moist. | [Hatched Pattern] | 110               | lgry  | yes      |               |     |                  |                   |    |    |     |  |  |
| 35          | 112  |                           |   |                   |                   |       |          |               |     |                  |                   |    |    |     |  |  |
| 36          | 114  |                           |   |                   |                   |       |          |               |     |                  |                   |    |    |     |  |  |
| 37          | 120  |                           | END OF EXPLORATION @ 120.00ft   |                   | 120.00            |       |          |               |     |                  |                   |    |    |     |  |  |
| 38          | 122  |                           |   |                   |                   |       |          |               |     |                  |                   |    |    |     |  |  |
| 39          | 124  |                           |   |                   |                   |       |          |               |     |                  |                   |    |    |     |  |  |
| 40          | 126  |                           |   |                   |                   |       |          |               |     |                  |                   |    |    |     |  |  |
| 41          | 128  |                           |   |                   |                   |       |          |               |     |                  |                   |    |    |     |  |  |
| 42          | 130  |                           |   |                   |                   |       |          |               |     |                  |                   |    |    |     |  |  |
| 43          | 132  |                           |   |                   |                   |       |          |               |     |                  |                   |    |    |     |  |  |
| 44          | 134  |                           |   |                   |                   |       |          |               |     |                  |                   |    |    |     |  |  |
| 45          | 136  |                           |   |                   |                   |       |          |               |     |                  |                   |    |    |     |  |  |
|             | 138  |                           |   |                   |                   |       |          |               |     |                  |                   |    |    |     |  |  |
|             | 140  |                           |   |                   |                   |       |          |               |     |                  |                   |    |    |     |  |  |
|             | 142  |                           |   |                   |                   |       |          |               |     |                  |                   |    |    |     |  |  |
|             | 144  |                           |   |                   |                   |       |          |               |     |                  |                   |    |    |     |  |  |
|             | 146  |                           |   |                   |                   |       |          |               |     |                  |                   |    |    |     |  |  |
|             | 148  |                           |   |                   |                   |       |          |               |     |                  |                   |    |    |     |  |  |
|             | 150  |                           |   |                   |                   |       |          |               |     |                  |                   |    |    |     |  |  |



SAND PACK 92.50ft TO 120.00ft  
 SCREEN 94.50ft TO 119.50ft

END OF EXPLORATION





PROJECT: Pump and Treat  
 LOCATION: Highgrove Landfill  
 BORING DATE: Jan. 11, 2002

### Extraction Well HG-29

DATUM: GROUND SURFACE

DP:

LOGGED: Panda Workman

| DEPTH SCALE |      | BORING METHOD             | SOIL PROFILE   |             | Field Samples     |       |          | Concentration |     |                  |                   |    |    |    |     |
|-------------|------|---------------------------|--|-------------|-------------------|-------|----------|---------------|-----|------------------|-------------------|----|----|----|-----|
| MEETRES     | FEET |                           | DESCRIPTION  | STRATA PLOT | DEPTH B.G.S. (ft) | Color | Moisture | Remarks       | LEL | Moisture Content | Gas Concentration |    |    |    |     |
|             |      |                           |  |             |                   |       |          |               |     | 0                | 20                | 40 | 60 | 80 | 100 |
| 16          | 50   | Air Rotary - Tri Bit Cone | Medium sand with gravel. Color: chocolate brown. Moist                             |             | 50                | cbwn  | yes      |               |     |                  |                   |    |    |    |     |
| 17          | 52   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |    |     |
| 18          | 54   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |    |     |
| 19          | 56   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |    |     |
| 20          | 60   |                           | Medium sand with gravel. Color: chocolate brown. Moist                             |             | 60                | cbwn  | yes      |               |     |                  |                   |    |    |    |     |
| 21          | 62   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |    |     |
| 22          | 64   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |    |     |
| 23          | 66   |                           | Fine sand. Color: Brown Slightly moist   |             | 70                | brwn  | yes      |               |     |                  |                   |    |    |    |     |
| 24          | 68   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |    |     |
| 25          | 70   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |    |     |
| 26          | 72   |                           | Medium to coarse sand. Open hole drilling at 86 feet. Color: brown. Slightly moist |             | 80                | brwn  | yes      |               |     |                  |                   |    |    |    |     |
| 27          | 82   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |    |     |
| 28          | 84   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |    |     |
| 29          | 86   |                           | Medium to coarse sand. Color: brown Slightly moist                                 |             | 90                | brwn  | yes      |               |     |                  |                   |    |    |    |     |
| 30          | 90   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |    |     |
|             | 92   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |    |     |
|             | 94   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |    |     |
|             | 96   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |    |     |
|             | 98   |                           |  |             |                   |       |          |               |     |                  |                   |    |    |    |     |
|             | 100  |                           |  |             |                   |       |          |               |     |                  |                   |    |    |    |     |



BENTONITE 86.00ft TO 91.00ft

97.80ft, 8:00 am, 1/14/02

Continued on next page

PROJECT: Pump and Treat  
 LOCATION: Highgrove Landfill  
 BORING DATE: Jan. 11, 2002

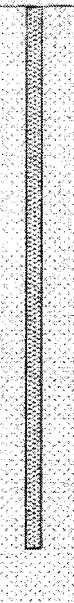
### Extraction Well HG-29

DATUM: GROUND SURFACE

DIP:

LOGGED: Panda Workman

| DEPTH SCALE |      | BORING METHOD             | SOIL PROFILE                                      |               | Field Samples     |       |          | Concentration |     |                  |                   |    |    |     |
|-------------|------|---------------------------|---|---------------|-------------------|-------|----------|---------------|-----|------------------|-------------------|----|----|-----|
| METRES      | FEET |                           | DESCRIPTION                                       | STRATA PLOT   | DEPTH B.G.S. (ft) | Color | Moisture | Remarks       | LEL | Moisture Content | Gas Concentration |    |    |     |
|             |      |                           |   |               |                   |       |          |               | 0   | 20               | 40                | 60 | 80 | 100 |
| 31          | 102  | Air Rotary - Tri Bit Core | Medium to coarse sand. Color: brownish gray Moist | [Shaded Area] | 100               | brgy  | yes      |               |     |                  |                   |    |    |     |
| 32          | 106  |                           |   |               |                   |       |          |               |     |                  |                   |    |    |     |
| 33          | 108  |                           |   |               |                   |       |          |               |     |                  |                   |    |    |     |
| 34          | 112  |                           |   |               |                   |       |          |               |     |                  |                   |    |    |     |
| 35          | 116  |                           | Medium to coarse sand. Color: brown Moist         |               | 110               | brwn  | yes      |               |     |                  |                   |    |    |     |
| 36          | 118  |                           |   |               |                   |       |          |               |     |                  |                   |    |    |     |
| 37          | 120  |                           | END OF EXPLORATION @ 120.00ft                     |               | 120.00            |       |          |               |     |                  |                   |    |    |     |
| 38          | 124  |                           |   |               |                   |       |          |               |     |                  |                   |    |    |     |
| 39          | 128  |                           |   |               |                   |       |          |               |     |                  |                   |    |    |     |
| 40          | 132  |                           |   |               |                   |       |          |               |     |                  |                   |    |    |     |
| 41          | 134  |                           |   |               |                   |       |          |               |     |                  |                   |    |    |     |
| 42          | 138  |                           |   |               |                   |       |          |               |     |                  |                   |    |    |     |
| 43          | 142  |                           |   |               |                   |       |          |               |     |                  |                   |    |    |     |
| 44          | 144  |                           |   |               |                   |       |          |               |     |                  |                   |    |    |     |
| 45          | 148  |                           |   |               |                   |       |          |               |     |                  |                   |    |    |     |



SAND PACK 81.00ft TO 120.00ft  
 SCREEN 83.00ft TO 118.00ft

END OF EXPLORATION



PROJECT: Pump and Treat  
 LOCATION: Highgrove Landfill  
 BORING DATE: Jan. 16, 2002

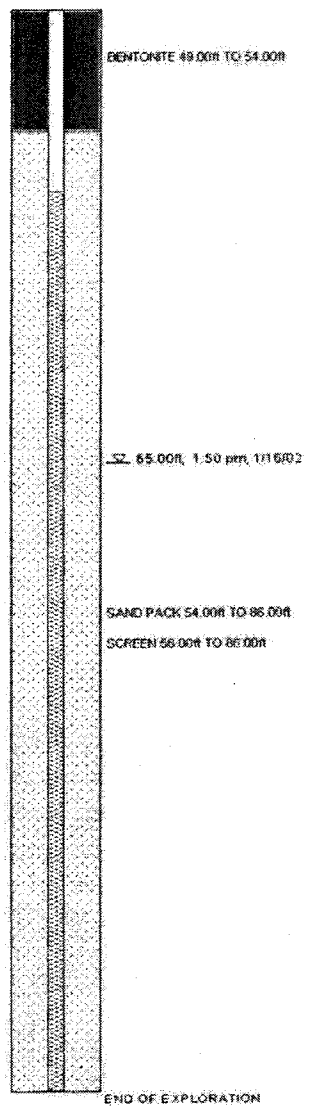
### Extraction Well HG-30

DATUM: GROUND SURFACE

DIP:

LOGGED: Paula Workman

| DEPTH SCALE |      | BORING METHOD  | SOIL PROFILE  |             | Field Notes       |       |          | Concentration |     |                  |                   |   |    |    |    |    |     |  |
|-------------|------|--|---|-------------|-------------------|-------|----------|---------------|-----|------------------|-------------------|---|----|----|----|----|-----|--|
| METRES      | FEET |  | DESCRIPTION   | STRATA PLOT | DEPTH B.G.S. (ft) | Color | Moisture | Remarks       | LEL | Moisture Content | Gas Concentration | 0 | 20 | 40 | 60 | 80 | 100 |  |
| 16          | 50   | Air Rotary Tri Bit Core  |   |             | 50                | cbwn  | yes      |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 52   |  | Fine to coarse sand. Color: Chocolate brown. Slightly moist   |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 54   |  |   |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 17          | 56   |  | Very hard rock. Color: real light brown Weathered Bedrock (?)   |             |                   | 55    | lbwn     |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 58   |  |   |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 18          | 58   |  | Weathered bedrock (?) tail cuttings consists of   |             |                   | 58    | lbwg     | yes           |     |                  |                   |   |    |    |    |    |     |  |
|             | 60   |  | Weathered bedrock (?) tail cuttings consists of   |             |                   | 59    | lbwg     | yes           |     |                  |                   |   |    |    |    |    |     |  |
|             | 62   |  |   |             |                   | 60    |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 20          | 64   |  | Weathered bedrock (?) tail cuttings consists of coarse to very coarse sand. Color: light brownish gray. Moist |             |                   |       | lbwg     | yes           |     |                  |                   |   |    |    |    |    |     |  |
|             | 66   |  |   |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 21          | 68   |  |   |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 23          | 70   | Weathered bedrock (?) tail cuttings consists of pebbles ~1.0 mm. GW in soil cuttings around 75 feet. Wet                                   |   |             | 70                |       |          | WET           |     |                  |                   |   |    |    |    |    |     |  |
|             | 72   |  |   |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 25          | 74   | Weathered Bedrock (?) tail cuttings consists of sub-angular to very coarse sand (looks like filter pack sand) some silt. Color: Brown. Wet |   |             |                   |       |          | WET           |     |                  |                   |   |    |    |    |    |     |  |
|             | 76   |  |   |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 26          | 78   |  |   |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 80   |  |   |             | 80                |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 82   |  |   |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
| 28          | 84   |  |   |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 86   | END OF EXPLORATION @ 86.00ft   |   |             | 86.00             |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 88   |  |   |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 90   |  |   |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 92   |  |   |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 94   |  |   |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 96   |  |   |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 98   |  |   |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |
|             | 100  |  |   |             |                   |       |          |               |     |                  |                   |   |    |    |    |    |     |  |



County of Riverside  
Waste Management Department

WELL NUMBER HG - 31

PAGE 1 OF 3

CLIENT Riverside County Waste Management Department

PROJECT NAME Highgrove Offsite Wells

PROJECT NUMBER HG - 31

PROJECT LOCATION Offsite: North of Access Rd, East of Pigeon Pass Rd

DATE STARTED 4/21/10 COMPLETED 4/22/10

GROUND ELEVATION 1261.43 ft HOLE SIZE 10"

DRILLING CONTRACTOR Layne Christensen Company

GROUND WATER LEVELS:

DRILLING METHOD Reverse Circulation Percussion Hammer

▽ AT TIME OF DRILLING 58.00 ft / Elev 1203.43 ft 4/21/10

LOGGED BY Todd Shibata CHECKED BY Todd Shibata

AT END OF DRILLING —

NOTES

▽ AFTER DRILLING 50.61 ft / Elev 1210.82 ft 4/26/10

| DEPTH (ft) | SAMPLE TYPE NUMBER | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION  | WELL DIAGRAM                            |
|------------|--------------------|----------|-------------|---|---|
| 0          |                    |          |             |   |   |
| 0          | D 7:14             |          |             |   | Well cap and above ground well monument |
| 5          | D 7:19             | SM       | 5.0         | (SM) Silty Sand, medium to coarse grain sand, brown, moist<br>... added water     | 1256.4                                  |
| 10         | D 7:26             | SM       | 10.0        | (SM) Silty Sand, coarse grain sand, brown<br>... stopped water<br>... added water | 1251.4                                  |
| 15         | D 7:50             | SM       | 15.0        | (SM) Silty Sand, fine to coarse grain sand with trace fine grain gravel, brown    | 1246.4                                  |
| 20         | D 8:20             | SM       | 20.0        | (SM) Silty Sand, fine to medium grain sand, brown                                 | 1241.4                                  |
| 25         | D 8:30             | CL       | 25.0        | (CL) Clay with silt, brown  | 1236.4                                  |
| 30         | D 8:45             | SC       | 30.0        | (SC) Clayey sand, medium to coarse grain sand, moderately cemented, red           | 1231.4                                  |
| 35         |                    |          |             |   |   |

GENERAL BH / TP / WELL - GINT STD US GDT - 8/18/10 08.24 - Z:\QUAZI\_KANIZGINT\PROJECTS\HIGHGROVE WELL HG-31.GPJ

Blank Casing - 4" Dia. Sch 80 PVC with Flush Threaded Connection

Hydrated Bentonite Chip Seal

No. 60 Transition Sand from 30' to 35'

County of Riverside  
Waste Management Department

WELL NUMBER HG - 31

PAGE 2 OF 3

CLIENT Riverside County Waste Management Department

PROJECT NAME Highgrove Offsite Wells

PROJECT NUMBER HG - 31

PROJECT LOCATION Offsite: North of Access Rd, East of Pigeon Pass Rd

| DEPTH (ft) | SAMPLE TYPE NUMBER   | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION   | WELL DIAGRAM |
|------------|----------------------|----------|-------------|--|--------------|
| 35         |                      |          |             |  |              |
|            | D<br>12:20           |          |             |  |              |
|            | D<br>12:49           | SC       |             | ... airline broken   |              |
| 40         | D<br>13:33           |          | 40.0        | (SC) Sand with clay, medium to coarse grain sand, red, moist                                   | 1221.4       |
|            |                      | SC       |             |  |              |
| 45         | D<br>13:38           |          | 45.0        | (SM) Sand with silt, fine to coarse grain sand, red-brown, moist                               | 1216.4       |
|            | D<br>13:40           |          |             |  |              |
|            | D<br>13:50           | SM       |             | ... fine to medium grain sand, very moist  |              |
| 50         |                      |          |             |  |              |
| 55         | D<br>13:53           |          | 55.0        | (SM) Sand with silt, coarse grain sand with gravel, dark brown, moist                          | 1206.4       |
|            | D<br>13:55           | SM       |             | Decomposed Box Springs Plutonic Complex<br>... groundwater encountered during drilling         |              |
| 60         | D<br>14:05           |          | 60.0        | (GP) Gravel, poorly graded to fine grain gravel, sub rounded with medium to coarse sand, brown | 1201.4       |
|            | D<br>7:05<br>4/22/10 | GP       |             | Box Springs Plutonic Complex - Biotite Granodiorite, strong, white, phaneritic, competent      |              |
| 65         | D<br>14:08           |          | 65.0        | (SP) Sand, fine to coarse grain sand with silt, gray, dry                                      | 1196.4       |
|            | D<br>14:11           |          |             |  |              |
| 70         | D<br>14:20           | SP       |             |  |              |
| 75         |                      |          | 75.0        |  | 1186.4       |

GENERAL BH / TP / WELL - GINT STD US GDT - 8/18/10 08:24 - Z:VQUAZI, KANIZGIN/PROJECTS/HIGHGROVE WELL HG-31.GPJ

Filter Pack  
Lapis Lustra  
No. 3 Sand

Screened Casing - 4" Dia. Sch 80 PVC with Flush Threaded Connection

**County of Riverside  
Waste Management Department**

CLIENT Riverside County Waste Management Department

PROJECT NAME Highgrove Offsite Wells

PROJECT NUMBER HG - 31

PROJECT LOCATION Offsite: North of Access Rd, East of Pigeon Pass Rd

| DEPTH (ft) | SAMPLE TYPE NUMBER | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION  | WELL DIAGRAM |
|------------|--------------------|----------|-------------|---|--------------|
| 75         | D<br>14:22         |          |             | (SP) Sand, fine to coarse grain sand, black, white, gray, dry |              |
| 80         | D<br>14:25         | SP       |             | ... groundwater discharge                                     |              |
|            | D<br>14:35         |          |             | ... micaceous, increase in Biotite                            |              |
|            | D<br>14:42         |          |             |   |              |

83.0

1178.4

Silt Sump-Blank Casing

Bottom Cap

Drilling completed 83.0 feet below ground surface (bgs). Borehole open to 83.0 feet bgs prior to well construction. Ground elevation is estimated. Sample type number: D=disturbed sample collected from air return cyclone.

County of Riverside  
Waste Management Department

WELL NUMBER HG - 32

PAGE 1 OF 3

CLIENT Riverside County Waste Management Department  
 PROJECT NUMBER HG - 32  
 DATE STARTED 4/19/10 COMPLETED 4/20/10  
 DRILLING CONTRACTOR Layne Christensen Company  
 DRILLING METHOD Reverse Circulation Percussion Hammer  
 LOGGED BY Panda Workman CHECKED BY Todd Shibata  
 NOTES \_\_\_\_\_

PROJECT NAME Highgrove Offsite Wells  
 PROJECT LOCATION Offsite: North East of Pigeon Pass Rd.  
 GROUND ELEVATION 1220.77 ft HOLE SIZE 10"  
 GROUND WATER LEVELS:  
 AT TIME OF DRILLING --- Not Measured  
 AT END OF DRILLING 79.00 ft / Elev 1141.77 ft 4/20/10  
 AFTER DRILLING 68.02 ft / Elev 1152.75 ft 4/22/10

GENERAL\_BH / TP / WELL - GINT STD US GDT - 8/19/10 08:25 - C:\PROGRAM FILES\GINT\PROJECTS\HIGHGROVE WELL HG-32.GPJ

| DEPTH (ft) | SAMPLE TYPE NUMBER | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION  | WELL DIAGRAM   |
|------------|--------------------|----------|-------------|---|--|
| 0          |                    |          |             |   |  |
| 0          | D 9:45             |          |             |   | Well Cap and Traffic rated Vault                                 |
| 5          | D 10:00            | SM       | 5.0         | (SM) Silty Sand, coarse grain with some silt, light brown   |  |
| 10         | D 10:15            |          | 10.0        | (SM) Silty Sand, coarse grain sand with trace fine gravel and some silt, light brown<br>... hard drilling | Cement grout   |
| 15         | D 10:38            | SM       |             |   |  |
| 20         | D 10:50            |          |             | ... add water to borehole   | Blank Casing - 4" Dia. Sch 80 PVC with Flush Threaded Connection |
| 25         | D 11:22            |          | 25.0        | (SM) Silty Sand, coarse grain sand with some silt, fine gravel, light brown                               |  |
| 30         | D 12:00            | SM       |             |   |  |
| 35         |                    |          | 35.0        |   |  |



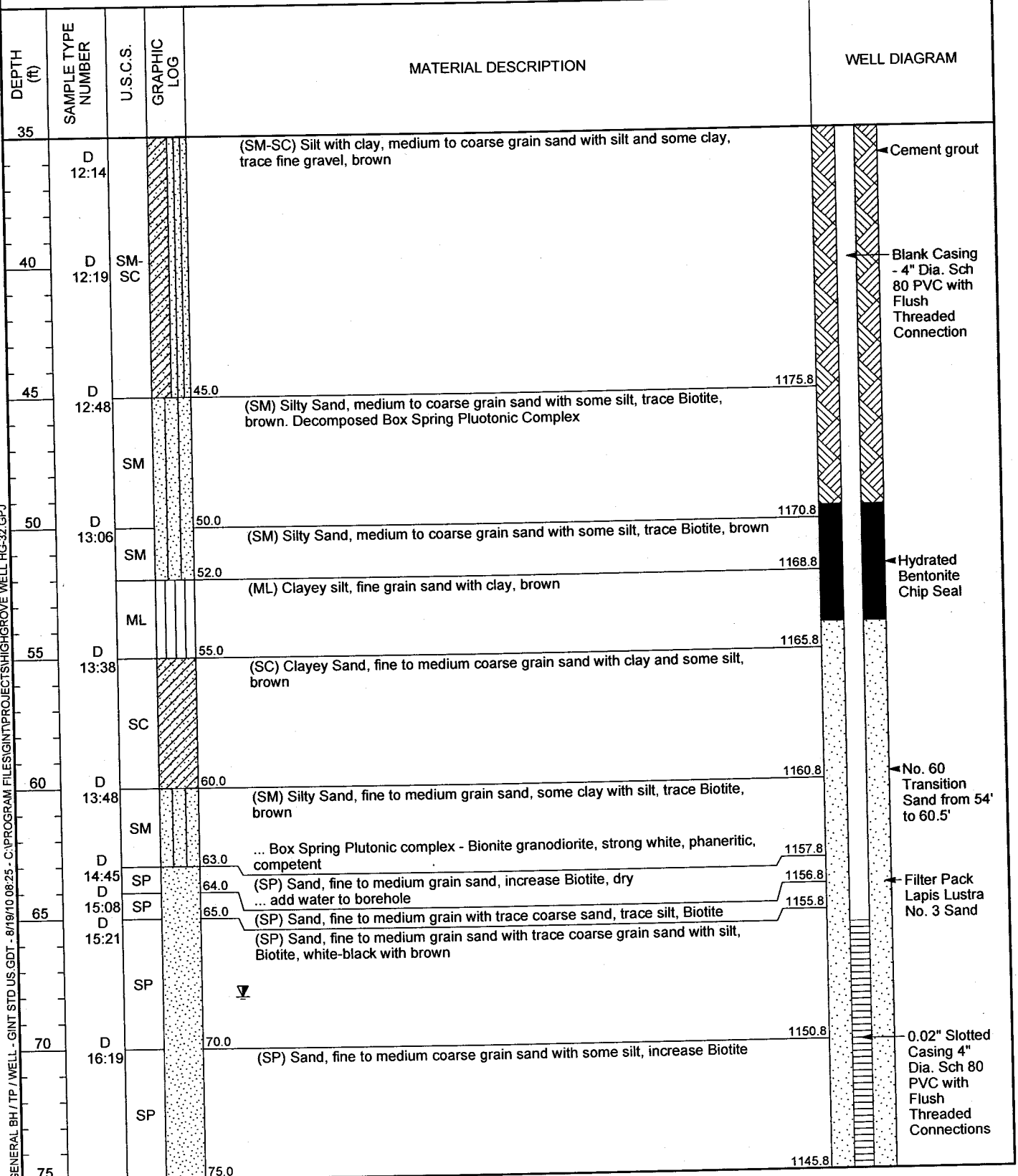
**County of Riverside  
Waste Management Department**

CLIENT Riverside County Waste Management Department

PROJECT NAME Highgrove Offsite Wells

PROJECT NUMBER HG - 32

PROJECT LOCATION Offsite: North East of Pigeon Pass Rd.



GENERAL\_BH/TP/WELL - GINT STD US.GDT - 8/19/10 08:25 - C:\PROGRAM FILES\GINT\PROJECTS\HIGHGROVE WELL HG-32.GPJ

CLIENT Riverside County Waste Management Department

PROJECT NAME Highgrove Offsite Wells

PROJECT NUMBER HG - 32

PROJECT LOCATION Offsite: North East of Pigeon Pass Rd.

| DEPTH (ft) | SAMPLE TYPE NUMBER | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION  | WELL DIAGRAM |
|------------|--------------------|----------|-------------|---|--------------|
| 75         |                    |          |             |   |              |
|            | D 17:07            |          |             | (SP) Sand, fine to trace grain sand with fine gravel, trace silt, Biotite               |              |
|            | D 17:10            | SP       |             |   |              |
| 80         | D 8:55<br>4/20/10  |          |             | (SM) Silty Sand, fine to coarse grain sand, trace coarse gravel with some silt, Biotite |              |
|            |                    | SM       |             |   |              |
| 85         | D 10:36            |          |             | (SP) Sand, fine to coarse grain sand with trace silt, Biotite                           |              |
|            |                    | SP       |             |   |              |
| 90         | D 11:43<br>D 13:03 |          |             |   |              |
|            |                    |          |             |   |              |

Drilling completed 90.5 feet below ground surface (bgs). Borehole open to 90.5 feet bgs prior to well construction. Ground elevation is estimated. Sample type number: D=disturbed sample collected from air return cyclone.

Bottom Cap