MONITORING WELL INTEGRITY REPORT
VOLNEY LANDFILL
VOLNEY, NEW YORK
REVISION I

March 1994

Prepared for

Oswego County
46 East Bridge Street
Oswego, New York 13126

Prepared by

Geraghty & Miller, Inc.
24 Madison Avenue Extension
Albany, New York 12203
(518) 452-7826

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MONITORING WELL INTEGRITY REPORT
VOLNEY LANDFILL
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Geraghty & Miller, Inc. is submitting this report to Oswego County for work performed at the Volney Landfill in Volney, Oswego County, New York. The report was prepared in conformance with Geraghty & Miller's strict quality assurance/quality control procedures to ensure that the report meets industry standards in terms of the methods used and the information presented. If you have any questions or comments concerning this report, please contact one of the individuals listed below.

Respectfully submitted,

GERAGHTY & MILLER, INC.

Robert D. Raskin
Senior Scientist/Project Manager

Andrew J. Barber
Senior Associate/Project Officer

RDR/AJB/tls

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INTRODUCTION

Geraghty & Miller, Inc. was retained by Oswego County and the participating industry potentially responsible parties (PRPs) in July 1993 to examine the condition of the existing monitoring wells at the Volney Landfill located on Silk and Howard Roads in Volney, New York in accordance with Task 1 of the Supplemental Pre-Remedial Studies (SPRDS) work plan, dated May 1993 (USEPA 1993). The purpose of the inventory was to assess the integrity and adequacy of the existing monitoring wells relative to 6 NYCRR Part 360 and USEPA well construction guidelines. This information was used to determine the adequacy and functionality of the existing monitoring wells at the site for providing water-level elevation, slug test and water quality data.

BACKGROUND

Numerous wells have previously been installed at the Volney Landfill (see Figure 1) by the United States Geological Survey (USGS), Geraghty & Miller (1984, 1985, 1990 and 1992) and URS Company, Inc. (1986) to monitor the occurrence and migration of groundwater and leachate at the landfill. However, during a previous walkover of the site conducted by Geraghty & Miller and Barton & Loguidice, P.C., many of these existing wells were observed to be in varying states of disrepair (i.e., apparent frost heaving, cracked cement surface seals, etc.) and/or were missing. Furthermore, well construction logs for all of the wells (mainly the USGS wells) are not available and a preliminary review of available well completion logs suggests that several of the wells may not have adequate surface seals. Therefore, prior to mobilizing the field effort for the SPRDS hydrogeologic investigation, Geraghty & Miller performed the integrity survey of the previously installed monitoring wells. A total of 49 monitoring wells were located and identified.

METHODOLOGY

From August 17 to August 19, 1993, the condition of each of the 49 previously installed monitoring wells was inspected and examined by a Geraghty & Miller geologist. This inspection included examining the condition of the surface seal, protective casing and other surface completion specifications. A clean, weighted stainless-steel tape was lowered into the well to measure total well depth (Table 1) and depth to water (Table 2). The measured total depths were compared with the original completion depths (Table 1) to determine the degree of sedimentation that may have occurred since the wells were installed. The height of the protective casing above ground (stick-up) was also measured to detect if frost-heave had occurred since installation. Original stick-ups and newly measured stick-ups are compared in Table 1. A bailer was then lowered into each well to check for blockage, degree of sedimentation, well plumbness and the condition of the standing water within it. Field observations were recorded on Well Inspection and Monitoring Well Integrity Field Survey Log Forms (Appendices A and B, respectively) and were checked against the original Well Construction Logs (Appendix C) when possible. The original Well Construction Logs were also reviewed to determine compliance with 6 NYCRR Part 360 and USEPA guidelines for well construction.

RESULTS AND FINDINGS

The condition of each well, as observed at the time of the field survey, is indicated on the Well Inspection Forms and Monitoring Well Integrity Field Survey Forms provided in Appendices A and B, respectively. Table 1 provides a summary and comparison of original versus current measurements of total depth and stick-ups for the existing wells located and Table 2 provides a summary of the monitoring well construction details (completion specifications) and water-levels measured for each well.

GW-Series

Fifteen wells in the GW-Series were located and inspected. These wells were installed by the USGS between 1979 and 1980. Originally, none of the GW-Series wells were constructed with a protective steel casing cemented into a secure surface seal. This protective equipment was installed under the direction of a Geraghty & Miller geologist in December 1984 (Geraghty & Miller 1985). Well Construction Logs for the USGS wells were not available, so construction details and installation dates are incomplete. It should be noted that wells GW-6, GW-7, GW-8, and GW-18 were previously damaged and replaced by Geraghty & Miller (i.e., GW-6R, GW-7R, GW-8R, and GW-18R, see Table 1) at the direction of Oswego County. The original USGS wells were abandoned in accordance with NYSDEC recommended guidelines [6 NYCRR Part 360 2.11 (h)(vi)]. Construction logs for the replacement wells are provided in Appendix C.

None of the existing USGS wells (GW-2, GW-3C, GW-3D, GW-9, GW-10, GW-11A, GW-12A, GW-14A, GW-15, GW-16, and GW-17) were constructed with cement (or clay) seals at land surface to prevent surface runoff from moving down the annular space between the well casing and borehole wall. In addition, information regarding sand pack intervals is unknown since well construction logs for these wells are not available and construction details are sketchy at best. With respect to the wells that were replaced (GW-6R, GW-7R, GW-8R and GW-18R), the review of Well Construction Logs indicated that the monitoring wells were constructed with appropriate sand pack, bentonite and grout seals in accordance with NYSDEC and USEPA guidelines at the time of their installation.

Results from the comparison of original and measured completion depths indicated that wells GW-2, GW-3C, GW-3D, GW-7R, GW-8R, and GW-18R contained less than one foot (between 0.04 and 0.84) of silt. The total depths of Wells GW-6R, GW-9, GW-11A, GW-12A, GW-14A and GW-15 were measured to be greater than their original total depth measurement (between 0.23 and 1.71 feet). The reason for these discrepancies is not clear. For Wells GW-10, GW-16 and GW-17, a comparison could not be made since information was not available on the original completion depth.

The results of the check for blockage and well plumbness indicated that the wells were not blocked and they appeared plumb, with the exception of wells GW-9, GW-11A, and GW-16, which were bent or kinked, restricting bailer movement inside the well. In addition, the following observations were noted during the integrity survey:

- the protective casing for well GW-10 was found to be missing and well GW-11A did not have a cement surface seal;

- the surface seals on wells GW-7R, GW-9, and GW-17 were found to have been cracked and/or frost heaved to some degree. Weep holes for drainage were not present in the base of the protective casings and well GW-18R was observed to have standing water inside the protective casing;

- the protective locking cover on wells GW-11A and GW-15 need to be repaired to prevent unauthorized access;

- wells GW-7R, GW-8R, GW-9, GW-10, GW-18, and GW-26 did not have push or screw-on well caps, and none of the well caps on the remaining wells were vented;

- each of the fifteen wells were labelled on the outside with the exception of GW-6R. The well locations were marked with orange posts with the exception of wells GW-6R, GW-12A, GW-16, GW-17, and GW-18R, making these wells difficult to locate;

- a dedicated teflon bailer was found tied inside each well. Groundwater observed in the bailer varied from clear to orange with moderate turbidity;

- a sixteenth USGS well, GW-25, is believed to have been located in the southeastern section of the landfill. This well was unmarked, did not have a

protective casing, and the cement seal was heaved greater than one foot above the existing grade. The well diameter was one inch, and the stick-up was measured at 4.55 feet above grade. This well may have been changed into a landfill gas vent, due to the presence of PVC elbows which have been threaded on.

SGW-Series

Nine wells in the SGW-Series were located and inspected. These wells were installed by Geraghty & Miller in December 1984 (SGW-26, SGW-27A, SGW-27B, SGW-28, SGW-29, SGW-30A, and SGW-30B) and July 1985 (SGW-33 and SGW-34) to supplement the existing groundwater monitoring network (USGS/GW-Series) at the landfill. It should be noted that well SGW-28 (now SGW-28R) was previously damaged and replaced by Geraghty & Miller in April 1990; the original well SGW-28 was abandoned in accordance with NYSDEC recommended guidelines.

The review of the Well Construction Logs (Appendix C) indicated that the SGW-Series monitoring wells were constructed with appropriate sand pack, bentonite and grout seals in accordance with NYSDEC and USEPA guidelines at the time of their installation, with the exception of SGW-27B, which had a sand pack interval extending more than 2 feet (or 20 percent) above the top of the screen. The results from the comparison of original and measured completion depths indicated that each well (with the exception of SGW-28R and SGW-30A) contained small amounts (between 0.01 and 0.57 feet) of silt; well SGW-28R contained 1.44 feet of silt, and well SGW-30A was measured to be greater than its original total depth by 0.29 feet.

The results of the check for blockage and well plumbness indicated that these wells were not blocked and they appeared plumb. In addition, the following observations were noted during the integrity survey:

- the surface seals on wells SGW-27A, SGW-30B and SGW-34 were found to have been cracked and/or frost heaved and well SGW-27B did not have a surface seal;

- wells SGW-26, SGW-29, SGW-30A and SGW-30B were missing push or screw-on well caps, and none of the well caps on the remaining wells were vented;

- weep holes for drainage were not present at the base of the protective casings and well SGW-28R was observed to have standing water inside the protective casing;

- each well was labeled on the outside (excluding SGW-28R, SGW-30B, SGW-33) and marked with orange painted posts;

- each well had functioning locking caps, which were keyed alike;

- a dedicated Teflon bailer was found tied in inside each well. Groundwater observed in the bailers ranged from clear and sediment free to an orange/red tint with moderate turbidity.

VBW-Series

There were 26 wells located and inspected from the VBW-Series, which were installed in January 1986 as part of the Remedial Investigation and Feasibility Study conducted by URS at the landfill (URS 1987). Since these wells were locked with a different keyed padlock than the GW- and SGW-Series wells, the locks on the VBW-Series wells were cut and replaced with locks common to the GW- and SGW- well series. It should be noted that well VBW-1 was not located; it is believed that this well was destroyed during re-grading activities previously conducted in this area.

The review of the Well Construction Logs (Appendix C) indicated that the VBW-Series monitoring wells were constructed with appropriate sand pack, bentonite and grout seals in accordance with NYSDEC and USEPA guidelines at the time of their installation, with the exception of well VBW-10D, which had a sand pack interval which extends more than 2 feet (or 20 percent) above the top of the screen. The results from the comparison of original and

measured completion depths indicated that wells VBW-2, VBW-3D, VBW-4S, VBW-6, VBW-7S, VBW-7D, VBW-9D, VBW-17 and VBW-17A contained small amounts (0.15 to 1.29 feet) of silt. In addition, wells VBW-3BR (5.32 feet), VBW-8R (4.71 feet), VBW-10D (2.20 feet) and VBW-10BR (2.80 feet) contained appreciable amounts of silt as indicated. Wells VBW-3S, VBW-3I, VBW-4D, VBW-5, VBW-8S, VBW-8D, VBW-9S, VBW-10S, VBW-11, VBW-12, VBW-13, VBW-14 and VBW-15 were measured to be greater than their original total depth measurements (between 0.07 and 7.10 feet). The reason for these discrepancies is not clear.

The results of the check for blockage and well plumbness indicated that the wells were not blocked and they appeared plumb. In addition, the following observations were noted during the integrity survey:

- wells VBW-2, VBW-3S, VBW-3I, VBW-3D, VBW-6, VBW-7S and VBW-17 did not appear to have concrete surface seals;

- the surface seals on wells VBW-3BR, VBW-9S, VBW-9D, VBW-11, VBW-13 and VBW-15 were found to have been cracked and/or frost heaved;

- wells VBW-9S, VBW-9D, VBW-10S and VBW-10BR were not labeled; each of the remaining wells were properly labeled. None of the VBW-Series wells were marked with posts, with the exception of VBW-4S, VBW-4D, VBW-7S and VBW-7D;

- wells VBW-4S, VBW-4D, VBW-7D and VBW-9S were missing push on screw caps, and none of the remaining well caps were vented;

- well VBW-8BR has a stick-up that extends above the top of the protective casing, restricting closure of the protective casing cover;

- two wells, VBW-10BR and VBW-11, had dedicated bailers tied inside each well. Water quality in the VBW-Series wells varied from clear and sediment free to orange and turbid;

- the following wells were found to be dry (see Table 2): VBW-4S, VBW-9S, VBW-9D, VBW-10S, VBW-10D and VBW-11.

SUMMARY

As part of the Supplemental Pre-Remedial Design Studies being conducted at the landfill, a total of 31 new monitoring wells have been installed. Aqueous samples are scheduled to be collected from these newly installed wells. In addition, the SPRDS work plan also calls for the collection of groundwater samples from the following monitoring wells (the testing program is summarized in Table 3-2 of the SPRDS work plan and Table 3 of this report): VBW-3BR, VBW-7S, VBW-7D, VBW-8S, VBW-8D, VBW-8BR, VBW-10D, VBW-14, GW-6R and GW-7R. Table 3 also summarizes the existing monitoring well testing program with respect to the collection of water-level measurements and slug testing. The purpose of the existing well inventory was to assess the integrity of the existing monitoring wells, and use that information to determine the adequacy and functionality of these wells for providing water-level measurement, slug test and water quality data.

Groundwater Sampling

Each of the 10 monitoring wells selected for sampling were constructed with what appears to be appropriate sand pack, bentonite and grout seals in accordance with NYSDEC and USEPA guidelines at the time of their installation. Out of the 10 existing wells scheduled to be sampled, well VBW-10D was the only well found to be dry and probably will not have water in it to sample. However, newly installed well LTW-7 is located approximately 175 feet to the east of VBW-10D, and both wells are screened in the lodgement till unit. Therefore, water quality information from the lodgement till unit will be able to be obtained in this area from well

LTW-7. Wells VBW-3BR and VBW-8BR both contained appreciable amounts of sediment (5.32 and 4.71 feet, respectively) and should be re-developed prior to sampling. Well VBW-7S contained 0.47 feet of silt; however, it appears to be functioning properly and should provide reliable water quality information.

The surface seal on well GW-7R was found to be cracked and well VBW-7S did not appear to have a surface seal. In addition, both wells contained a small build-up (0.63 and 0.47 feet, respectively) of sediment. With respect to VBW-7S, newly installed shallow piezometer SP-11 is located approximately 25 to 50 feet to the west of VBW-7S and both are screened in the shallow granular material. SP-11 is intended to provide shallow groundwater quality data which will identify potential leachate bypass of the existing northern leachate collection system. Since VBW-7S did not appear to have a surface seal which could compromise the groundwater quality if a sample were to be collected, it is proposed to utilize the water quality information from SP-11 as a substitute for VBW-7S. With respect to GW-7R, it is believed that although the surface seal was found to be cracked, it will be necessary to collect a groundwater sample from GW-7R since the groundwater from this well will provide water quality information along the eastern section of Howard Road and will allow for a comparison with the water quality data previously collected by Oswego County since 1984.

The remaining wells, VBW-8S (0.07 feet), VBW-8D (0.47 feet), VBW-14 (1.23 feet) and GW-6R (0.38 feet) were measured to be greater than their original total depth measurements. The reason for these discrepancies is not clear. It is possible that the original measurements were erroneous. However, these wells appear to be functioning properly and should provide reliable water quality information.

Water-Level Measurements

The SPRDS work plan (see work plan Table 3-2 and Table 3 of this report) specifies the collection of water-level measurements from selected existing monitoring wells. However, there were several additional wells (mainly off-site) located and examined during the well integrity

survey. Although not originally specified, water-level measurements will be collected from these additional wells (see Table 3) to supplement the water-level elevation data base which should assist in establishing groundwater flow trends and allow for an evaluation of potential gradient variations (both horizontal and vertical) at the site. However, it should be noted that if anomalous water-level elevations are measured from a particular well, this information may be disregarded if there is a reason to suspect the integrity of the well where the measurement was collected. This decision will be made with USEPA approval.

Slug Tests

The SPRDS work plan calls for the performance of slug tests on the following existing monitoring wells: VBW-4S, VBW-4D, VBW-5, VBW-7S, VBW-7D, VBW-8S, VBW-8D, VBW-8BR, VBW-10D, GW-6R, SG-7R, SGW-30A and SGW-30B. The slug tests will assist in the determination of the hydraulic conductivity of the formation material around the screened interval of each well.

Well VBW-4S was found to be dry and will not be slug tested. The integrity of the remaining wells was found to be adequate with respect to the performance of slug tests.

REFERENCES

Geraghty & Miller, Inc., 1985. Hydrogeologic Investigation of the Oswego Valley Landfill Site, Volney, New York, July 1985.

URS Company, Inc., 1987. Remedial Investigation/Feasibility Study, Volney Landfill, Town of Volney, Oswego County, New York, May 1987.

United States Environmental Protection Agency, 1993. Supplemental Pre-Remedial Design Studies-Remedial Design Work Plan, Volney Landfill Site, Town of Volney, Oswego County, New York, May 1993.

Table 1. Summary and Comparison of Original vs. Current Measurements of Total Depth and Stick-Up for Existing Monitoring Wells, Volney Landfill, Volney, New York.

Well Number	Date Installed	Original Completion Depth* (1)	Measured Depth** (1)	Difference (feet)	Original Stick-Up (feet)	Measured Stick-Up (feet)**
GW-2	1979	15.30	15.20	-0.10	1.30	2.46
GW-3C	1979	37.30	37.26	-0.04	2.80	2.60
GW-3D	1979	13.65	12.81	-0.84	3.65	2.92
GW-6R	2/4/92	20.00	20.38	+0.38	2.00	2.38
GW-7R	7/17/85	23.00	22.37	-0.63	3.00	2.58
GW-8R	7/16/85	39.00	38.23	-0.77	3.00	2.54
GW-9	1979	40.00	40.49	+0.49	3.50	2.45
GW-10	NA	NA	23.45	NA	2.50	4.13
GW-11A	1980	19.20	20.51	+1.31	1.20	1.92
GW-12A	1980	18.00	19.71	+1.71	1.00	2.75
GW-14A	1980	18.00	19.88	+0.88	1.00	2.17
GW-15	1980	22.20	22.43	+0.23	1.20	3.07
GW-16	1980	NA	20.80	NA	NA	3.40
GW-17	1980	NA	33.63	NA	NA	3.00
GW-18R	4/30/90	20.35	20.30	-0.05	2.10	2.25
SGW-26	12/4/84	28.00	27.57	-0.43	3.00	2.48
SGW-27A	12/5/84	22.40	22.39	-0.01	2.40	2.71
SGW-27B	12/5/84	38.40	38.21	-0.19	3.00	2.92
SGW-28R	4/30/90	25.00	23.56	-1.44	3.00	2.95
SGW-29	12/7/84	23.00	22.44	-0.56	3.00	2.50

* Original completion depth and measured depth includes stick-up measurement.

** Measured on August 17-19, 1993, during the monitoring well integrity survey.

(1) Depth in feet below top of measuring point (top of well casing).

NA - Information not available.

Table 1. Summary and Comparison of Original vs. Current Measurements of Total Depth and Stick-Up for Existing Monitoring Wells, Volney Landfill, Volney, New York.

Well Number	Date Installed	Original Completion Depth* (1)	Measured Depth** (1)	Difference (feet)	Original Stick-Up (feet)	Measured Stick-Up (feet)**
SGW-30A	12/7/84	22.00	22.29	+0.29	3.00	2.96
SGW-30B	12/3/84	37.00	36.93	-0.07	3.00	2.85
SGW-33	7/17/85	18.00	17.78	-0.22	3.00	4.00
SGW-34	7/17/85	23.30	22.73	-0.57	3.00	2.67
VBW-1	1/18 - 1/19/86	28.80	Destroyed	NA	2.30	Destroyed
VBW-2	1/21/86	11.50	10.21	-1.29	2.50	2.48
VBW-3S	1/21/86	19.00	19.40	+0.40	2.50	3.00
VBW-3I	1/20/86	28.50	30.30	+1.80	2.50	2.79
VBW-3D	1/18/86	48.50	48.30	-0.20	2.50	2.29
VBW-3BR	1/23 - 2/8/86	94.50	89.18	-5.32	2.30	3.29
VBW-4S	1/16/86	14.40	14.20	-0.20	2.40	2.39
VBW-4D	1/16/86	25.00	25.23	+0.53	2.00	2.20
VBW-5	1/17/86	14.00	16.24	+2.24	3.00	2.08
VBW-6	2/6/86	19.00	18.04	-0.96	3.00	2.67
VBW-7S	1/19 - 1/20/86	17.80	17.33	-0.47	2.80	3.15
VBW-7D	1/22/86	31.80	31.36	-0.44	2.80	2.52
VBW-8S	1/17/86	20.00	20.07	+0.07	2.00	1.71
VBW-8D	1/16 - 1/17/86	37.00	37.47	+0.47	2.00	1.50
VBW-8BR	1/20 - 2/6/86	58.50	53.79	-4.71	2.00	1.50
VBW-9S	1/10/86	20.10	20.38	+0.28	2.10	2.99

* Original completion depth and measured depth includes stick-up measurement.

** Measured on August 17-19, 1993, during the monitoring well integrity survey.

(1) Depth in feet below top of measuring point (top of well casing).

NA - Information not available.

Table 1. Summary and Comparison of Original vs. Current Measurements of Total Depth and Stick-Up for Existing Monitoring Wells, Volney Landfill, Volney, New York.

Well Number	Date Installed	Original Completion Depth* (1)	Measured Depth** (1)	Difference (feet)	Original Stick-Up (feet)	Measured Stick-Up (feet)**
VBW-9D	1/10/86	27.60	27.23	-0.37	2.60	2.21
VBW-10S	1/15/86	18.50	18.97	+0.47	2.00	3.17
VBW-10D	1/31/86	59.50	57.30	-2.20	2.50	2.42
VBW-10BR	1/29 - 2/8/86	103.80	101.00	-2.80	1.80	2.75
VBW-11	1/22/86	25.00	25.44	+0.44	2.00	2.30
VBW-12	1/18/86	17.10	24.20	+7.10	3.10	2.38
VBW-13	1/22/86	11.30	12.22	+0.92	2.30	2.20
VBW-14	1/22/86	15.00	16.23	+1.23	2.00	2.50
VBW-15	1/17/86	17.00	17.20	+0.20	3.00	2.60
VBW-17	1/17 - 1/18/86	18.30	17.80	-0.50	2.00	1.92
VBW-17A	1/18/86	17.10	16.95	-0.15	2.00	2.37

* Original completion depth and measured depth includes stick-up measurement.

** Measured on August 17-19, 1993, during the monitoring well integrity survey.

(1) Depth in feet below top of measuring point (top of well casing).

NA - Information not available.

Table 2. Summary of Monitoring Well Construction Details and Depth to Water Measurements for Existing Monitoring Wells, Volney Landfill, Volney, New York.

Well Number	Screen Length (feet)	Screened (Intake) Interval (1)	Sand Packed Interval (1)	Bentonite Seal Thickness (feet)	Depth to Water (2)
GW-2	2.5	11.5 - 14	NA	NA	Dry
GW-3C	1.5	33 - 34.5	NA	NA	11.64
GW-3D	2	8 - 10	NA	NA	10.90
GW-6R	10	8 - 18	6 - 18	2	9.08
GW-7R	5	5 - 20	3 - 20	3	15.78
GW-8R	10	26 - 36	24 - 36	2	36.71
GW-9	2.5	34 - 36.5	NA	NA	27.29
GW-10	NA	NA	NA	NA	16.73
GW-11A	4	14 - 18	NA	NA	12.40
GW-12A	4	13 - 17	NA	NA	10.07
GW-14A	2	15 - 17	NA	NA	14.30
GW-15	4	17 - 21	NA	NA	13.08
GW-16	2	16 - 18	NA	NA	16.21
GW-17	2	29 - 31	NA	NA	19.11
GW-18R	10	8.25 - 18.25	5.25 - 18.25	2.3	17.97
SGW-26	20	5 - 25	2 - 25	2	8.47
SGW-27A	15	5 - 20	3 - 20	1	8.51
SGW-27B	15	20.4 - 35.4	18 - 37	2	8.60
SGW-28R	15	7 - 22	5 - 22	2	9.83
SGW-29	15	5 - 20	3 - 20	3	6.67
SGW-30A	15	4 - 19	2 - 20	1.1	9.10
SGW-30B	20	14 - 34	12 - 34	12	9.06
SGW-33	10	5 - 15	3 - 15	2	9.76
SGW-34	15	5 - 20	3 - 20	2	10.37
VBW-2	5.5	3.5 - 9	2 - 10	1	6.11
VBW-3S	10.8	5.7 - 16.5	4.0 - 18	2	9.18
VBW-3I	10	16 - 26	14 - 27	5	9.44
VBW-3D	5	41 - 46	39 - 47	4	9.24
VBW-3BR	*	--	--	--	9.93
VBW-4S	5	7 - 12	5 - 13	2	Dry
VBW-4D	5	18 - 23	16 - 25.5	7	16.08
VBW-5	5	6 - 11	4 - 15	1	9.49
VBW-6	10	6 - 16	5 - 18	2	5.92
VBW-7S	10.5	4.5 - 15	4 - 16	2	7.33

* Well completed as open hole in bedrock; screen not present.
(1) Measurements in feet below land surface.
(2) Measurements in feet below top of measuring point (top of well casing); measurements collected from August 17-19, 1993 during monitoring well integrity survey.
NA - Information not available.

Table 2. Summary of Monitoring Well Construction Details and Depth to Water Measurements for Existing Monitoring Wells, Volney Landfill, Volney, New York.

Well Number	Screen Length (feet)	Screened (Intake) Interval (1)	Sand Packed Interval (1)	Bentonite Seal Thickness (feet)	Depth to Water (2)
VBW-7D	10.5	18.5 - 29	18 - 30	5	6.34
VBW-8S	10.5	7.5 - 18	5.5 - 19	2.5	12.50
VBW-8D	10.5	24.5 - 35	23 - 36	5	12.82
VBW-8BR	*	--	--	--	12.79
VBW-9S	10	8 - 18	6 - 19	3	Dry
VBW-9D	5	20 - 25	18 - 26	3	Dry
VBW-10S	10.5	6 - 16.5	5 - 17	3	Dry
VBW-10D	5	52 - 57	48.5 - 60	9.3	Dry
VBW-10BR	*	--	--	--	32.45
VBW-11	12	11 - 23	11 - 25	7	Dry
VBW-12	10.1	3.9 - 14	3 - 14	1.5	8.58
VBW-13	5.7	3.3 - 9	3 - 10	2	8.35
VBW-14	10.5	2.5 - 13	2.0 - 13.5	1	8.58
VBW-15	10.5	3.5 - 14	2.5 - 14	1.5	10.42
VBW-17	5	11.3 - 16.3	10 - 16.3	3.5	11.37
VBW-17A	10.1	5 - 15.1	4 - 15.1	2	5.47

* Well completed as open hole in bedrock; screen not present.
(1) Measurements in feet below land surface.
(2) Measurements in feet below top of measuring point (top of well casing); measurements collected from August 17-19, 1993 during monitoring well integrity survey.
NA - Information not available.

Table 3. Summary of Existing Monitoring Well Testing Program, Supplemental Pre-Remedial Design Studies, Volney Landfill, Volney, New York.

Well Number	Water-Level Measurement	Slug Test	Groundwater Sample
GW-2	Dry	Dry	Dry
GW-3C	x	--	--
GW-3D	x	--	--
GW-6R	x	x	x
GW-7R	x	x	x
GW-8R	x	--	--
GW-9	x	--	--
GW-10	y	--	--
GW-11A	y	--	--
GW-12A	y	--	--
GW-14A	y	--	--
GW-15	x	--	--
GW-16	y	--	--
GW-17	y	--	--
GW-18R	y	--	--
SGW-26			
SGW-27A	x	--	--
SGW-27B	x	--	--
SGW-28R	x	--	--
SGW-29	x	--	--
SGW-30A	x	x	--
SGW-30B	x	x	--
SGW-33	y	--	--
SGW-34	y	--	--
VBW-1	Destroyed	Destroyed	Destroyed

x - Performance of this measurement or testing is specified in the SPRDS work plan.

y - Measurement scheduled to be collected although not specified in SPRDS work plan to supplement water-level elevation data base.

Table 3. Summary of Existing Monitoring Well Testing Program, Supplemental Pre-Remedial Design Studies, Volney Landfill, Volney, New York.

Well Number	Water-Level Measurement	Slug Test	Groundwater Sample
VBW-2	y	--	--
VBW-3S	x	--	--
VBW-3I	x	--	--
VBW-3D	x	--	--
VBW-3BR	x	--	x
VBW-4S	Dry	Dry	Dry
VBW-4D	x	x	--
VBW-5	x	x	--
VBW-6	x	--	--
VBW-7S	x	x	x
VBW-7D	x	x	x
VBW-8S	x	x	x
VBW-8D	x	x	x
VBW-8BR	x	x	x
VBW-9S	Dry	Dry	Dry
VBW-9D	Dry	Dry	Dry
VBW-10S	Dry	Dry	Dry
VBW-10D	x	x	x
VBW-10BR	y	--	--
VBW-11	Dry	Dry	Dry
VBW-12	y	--	--
VBW-13	y	--	--
VBW-14	x	--	x
VBW-15	x	--	--
VBW-17	y	--	--
VBW-17A	y	--	--

x - Performance of this measurement or testing is specified in the SPRDS work plan.
y - Measurement scheduled to be collected although not specified in SPRDS work plan to supplement water-level elevation data base.

APPENDIX A

WELL INSPECTION FORMS

WELL INSPECTION FORM

SITE: Volney Landfill, Oswego, New York

INSPECTED BY: A. LaBarge / M. Wood

PROJECT NO.: AY0060002

DATE: 8/17 - 8/19/93

		WELL NUMBER												
		GW 2	GW 3C	GW 3D	GW 6R	GW 7R	GW 8R	GW 9	GW 10	GW 11A	GW 12A	GW 14A	GW 15	GW 16
Is well location correct on map?	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Is well located in a dry area?	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Is well readily accessible?	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Is well identified and protected with posts?	Y/N	Y	Y	Y	N	Y	Y	Y	Y	Y	N	Y	Y	N
Is well labeled inside/outside?	Y/N	OUT	OUT	OUT	N	OUT	OUT	OUT	OUT	OUT	OUT	OUT	OUT	OUT
Is purging/sampling equipment in good condition?	Y/N	NONE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Is well casing free of kinks and/or bends?	Y/N	Y	Y	Y	Y	Y	Y	N	Y	N	Y	Y	Y	N
Is protective casing secure in the ground?	Y/N	Y	Y	Y	Y	Y	Y	Y	NONE	N	Y	Y	Y	Y
Is well area free of vegetation/overgrowth?	Y/N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y
Is there a functioning locking cap?	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	N	Y
Is there a push/ screw on well cap?	Y/N	N	Y	Y	Y	N	N	N	N	Y	Y	Y	Y	Y
Is well cap vented?	Y/N	--	N	N	N	--	--	--	--	N	N	N	N	--
Is there a weep hole in protective casing?	Y/N	N	N	N	N	N	N	N	N	N	N	N	N	N

Y - Yes
N - No

AY0060002 wif#1.xls

WELL INSPECTION FORM

SITE: Volney Landfill, Oswego, New York

INSPECTED BY: A. LaBarge / M. Wood

PROJECT NO.: AY0060002

DATE: 8/17 - 8/19/93

		WELL NUMBER											
		GW 17	GW 18R	SGW 26	SGW 27A	SGW 27B	SGW 28	SGW 29	SGW 30A	SGW 30B	SGW 33	SGW 34	VBW 2
Is well location correct on map?	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Is well located in a dry area?	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Is well readily accessible?	Y/N	Y	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y
Is well identified and protected with posts?	Y/N	N	N	Y	Y	Y	N	N	N	N	N	Y	Y
Is well labeled inside/outside?	Y/N	OUT	OUT	OUT	OUT	OUT	OUT	OUT	OUT	OUT	OUT	OUT	OUT
Is purging/sampling equipment in good condition?	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	--
Is well casing free of kinks and/or bends?	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Is protective casing secure in the ground?	Y/N	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y
Is well area free of vegetation/overgrowth?	Y/N	Y	N	Y	N	N	N	Y	Y	Y	N	N	Y
Is there a functioning locking cap?	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Is there a push/ screw on well cap?	Y/N	N	N	N	Y	Y	Y	N	N	N	N	Y	Y
Is well cap vented?	Y/N	N	N	N	N	N	N	N	N	N	N	N	N
Is there a weep hole in protective casing?	Y/N	N	N	N	N	N	N	N	N	N	N	N	N

Y - Yes
N - No

WELL INSPECTION FORM

SITE: Volney Landfill, Oswego, New York

INSPECTED BY: A. LaBarge / M. Wood

PROJECT NO.: AY0060002

DATE: 8/17 - 8/19/93

		WELL NUMBER											
		VBW 3S	VBW 3I	VBW 3D	VBW 3BR	VBW 4S	VBW 4D	VBW 5	VBW 6	VBW 7S	VBW 7D	VBW 8S	VBW 8D
Is well location correct on map?	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Is well located in a dry area?	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Is well readily accessible?	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Is well identified and protected with posts?	Y/N	N	N	N	N	Y	Y	N	N	Y	Y	N	N
Is well labeled inside/outside?	Y/N	OUT	OUT	OUT	OUT	OUT	OUT	OUT	OUT	OUT	OUT	OUT	OUT
Is purging/sampling equip-ment in good condition?	Y/N	NONE	NONE	NONE	NONE	--	NONE	NONE	NONE	NONE	NONE	NONE	NONE
Is well casing free of kinks and/or bends?	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Is protective casing secure in the ground?	Y/N	N	N	N	Y	Y	Y	Y	N	N	Y	Y	Y
Is well area free of vegetation/overgrowth?	Y/N	N	N	N	N	N	N	N	N	Y	Y	N	N
Is there a functioning locking cap?	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Is there a push/ screw on well cap?	Y/N	Y	Y	Y	Y	Y	N	Y	Y	Y	N	Y	Y
Is well cap vented?	Y/N	N	N	N	N	N	N	N	N	N	--	N	N
Is there a weep hole in protective casing?	Y/N	N	N	N	N	N	N	N	N	Y	N	N	N

Y - Yes
N - No

AY0060002 wif#3.xls

WELL INSPECTION FORM

SITE: Volney Landfill, Oswego, New York

INSPECTED BY: A. LaBarge / M. Wood

PROJECT NO.: AY0060002

DATE: 8/17 - 8/19/93

		WELL NUMBER												
		VBW 8BR	VBW 9S	VBW 9D	VBW 10S	VBW 10D	VBW 10BR	VBW 11	VBW 12	VBW 13	VBW 14	VBW 15	VBW 17	VBW 17A
Is well location correct on map?	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Is well located in a dry area?	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Is well readily accessible?	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Is well identified and protected with posts?	Y/N	N	N	N	N	N	N	N	N	N	Y	N	N	N
Is well labeled inside/outside?	Y/N	OUT	N	N	N	OUT	N	OUT	OUT	OUT	N	OUT	OUT	OUT
Is purging/sampling equipment in good condition?	Y/N	NONE	NONE	NONE	NONE	NONE	Y	Y	NONE	NONE	NONE	NONE	NONE	NONE
Is well casing free of kinks and/or bends?	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Is protective casing secure in the ground?	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N
Is well area free of vegetation/overgrowth?	Y/N	N	N	N	N	N	N	Y	Y	Y	Y	Y	N	N
Is there a functioning locking cap?	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Is there a push/ screw on well cap?	Y/N	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Is well cap vented?	Y/N	N	N	N	N	N	N	N	N	N	N	N	N	N
Is there a weep hole in protective casing?	Y/N	N	N	N	N	N	N	N	N	N	N	N	N	N

Y - Yes
N - No

AY0060002 wif#4.xls

APPENDIX B

MONITORING WELL

INTEGRITY FIELD SURVEY FORMS

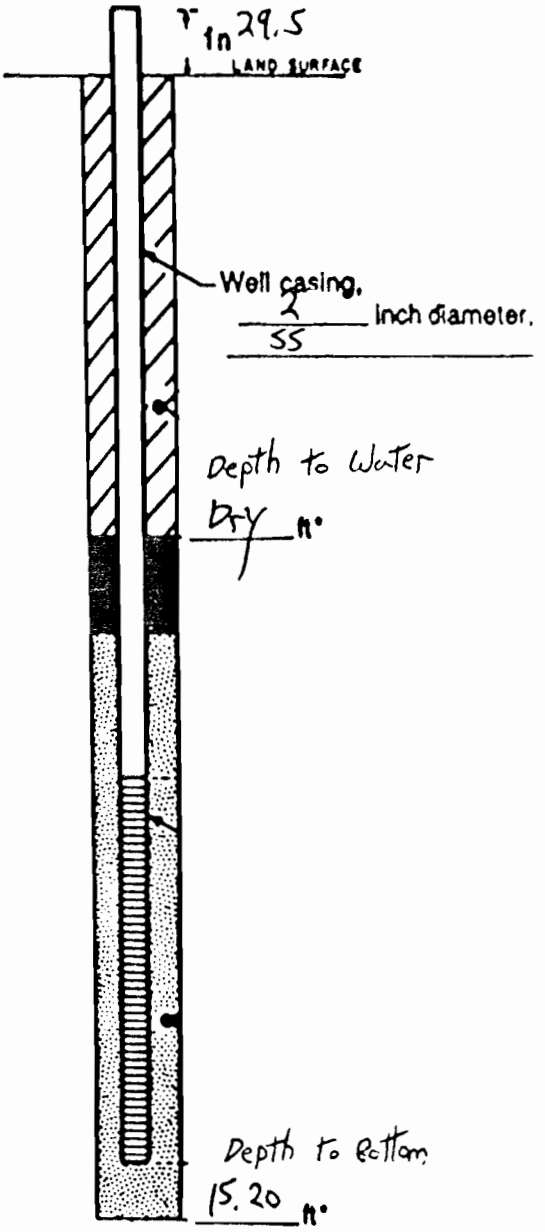
GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY B. LaBerge / M. Wood
DATE August 19, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL ~~GW-2~~ GW-2
LOCATION Oswego Co

~~Flushmounted~~
~~No Casing~~



LOCATION MARKED ADEQUATELY
Map location accurate? Y
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside X Inside ____

PROTECTION OF THE WELL
Posts: How many? 1 Type Wood
Visibility: ~~Painted~~ orange
Flagged

PROTECTIVE CASING
~~Above~~ ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 29.5 inches

LOCKING CAP
Locked to prevent unauthorized entry? Y
Large gaps? N Fliptop cap?
Rust? Y Screw cap? N
Lock cut? Y Lock replaced? Y

SURFACE SEAL
Differential erosion around and under base? N
Cracks? Y
Slope to prevent ponding in immediate area? N
Broken? N

PVC CAP
Screwed on?
Improved - How? None
Cut?

MEASURING POINT
~~Marked~~? Describe: marker on steel case

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? N
- Ponded water around well? N

Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

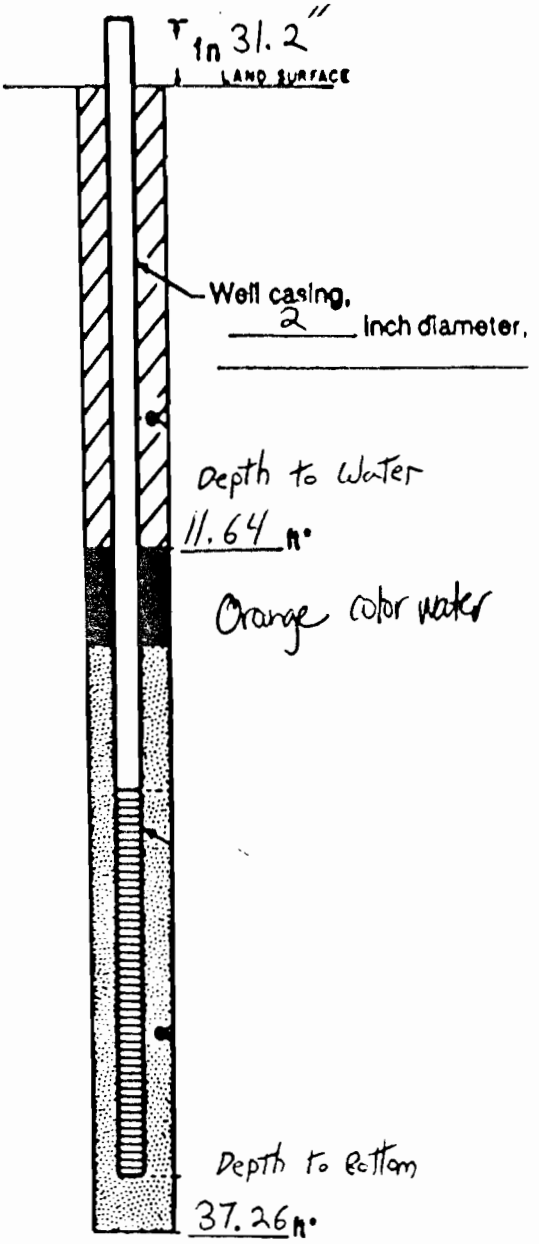
*Depth Below Measuring Poi

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBarge / M. Ward
DATE Aug 18 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL GW-3C
LOCATION Oswego Co.



LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas? Yes

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside X Inside ____

PROTECTION OF THE WELL
Posts: How many? 1 Type metal
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap? Yes
Protective casing height (above) below) ground 31.2 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? No Screw cap? Yes
Lock cut? No Lock replaced? No

SURFACE SEAL
Differential erosion around and under base? No
Cracks? No
Slope to prevent ponding in immediate area? Yes
Broken? No

PVC CAP
Screwed on? Yes
Improved - How?
Cut?

MEASURING POINT
Marked? Describe: Marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No

Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Poir

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBerge / M. Wood
DATE Aug 18 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL GW-3D
LOCATION Oswego Co.

LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas? Yes

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside X Inside ____

PROTECTION OF THE WELL
Posts: How many? 1 Type metal Road marker
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap? Yes
Protective casing height (above, below) ground 35 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? No Screw cap? ~~Yes~~ No
Lock cut? No Lock replaced? No

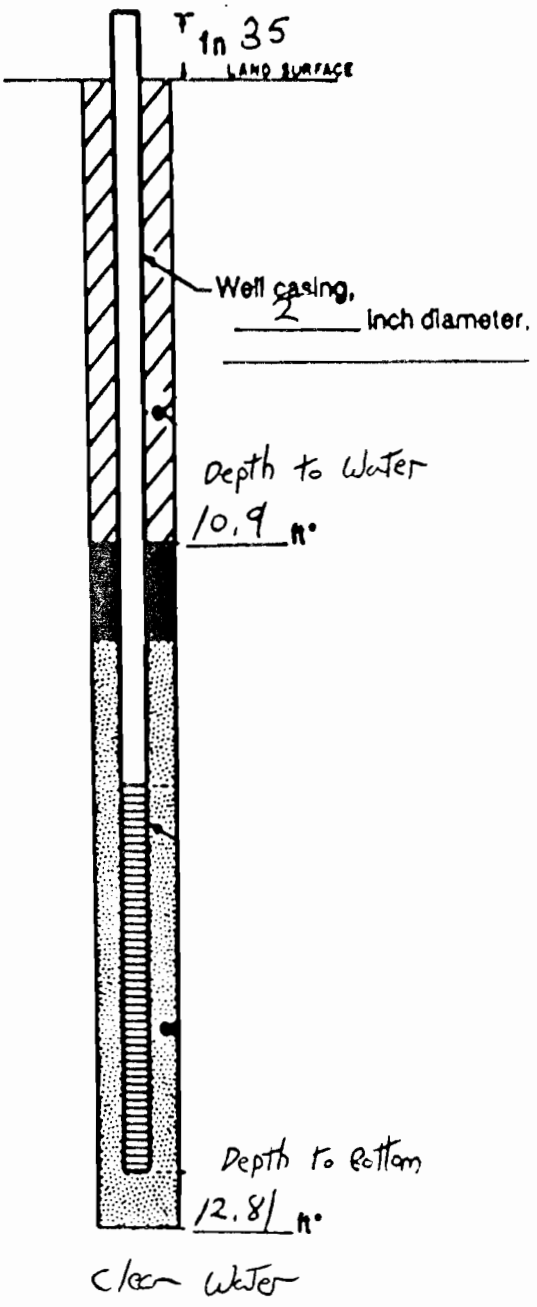
SURFACE SEAL
Differential erosion around and under base? No
Cracks? No
Slope to prevent ponding in immediate area? Yes
Broken? No

PVC CAP
(Screwed on)? Yes
Improved - How?
Cut?

MEASURING POINT
(Marked)? Describe: Marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch?
- Ponded water around well?



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

*Depth Below Measuring Poi

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. Laborge / M. Wood
DATE Aug 18, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL GW-6B
LOCATION Oswego Co.

LOCATION MARKED ADEQUATELY
Map location accurate?
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside No Inside Yes

PROTECTION OF THE WELL
Posts: How many? 0 Type ____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above) below) ground 28.5 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? Yes Screw cap? Push on
Lock cut? No Lock replaced? No

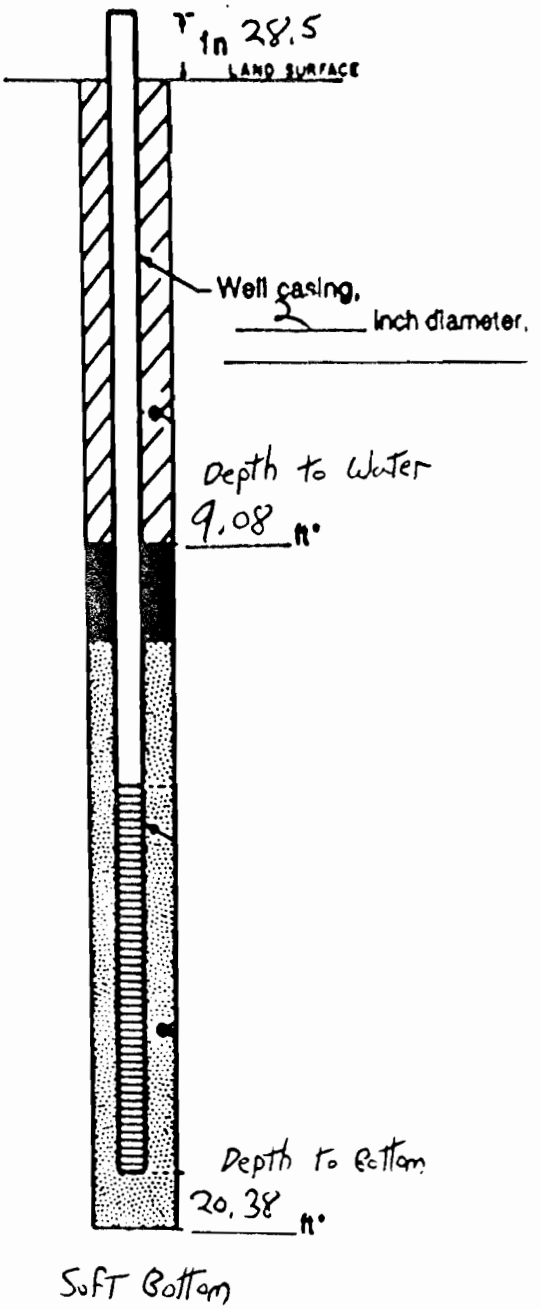
SURFACE SEAL
Differential erosion around and under base? No
Cracks? No
Slope to prevent ponding in immediate area? Yes
Broken? No

PVC CAP
Screwed on?
Improved - How? Push on 2" PVC
Cut?

MEASURING POINT
Marked? Describe: marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Po

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. Laberge / M. Wood
DATE Aug 18 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL GW-7R
LOCATION Oswego Co.

LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas? No

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside X Inside ____

PROTECTION OF THE WELL
Posts: How many? 1 Type Wood
Visibility: (Painted orange)
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap? Yes
Protective casing height (above, below) ground 31 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No — Fliptop cap? Yes
Rust? No — Screw cap? No
Lock cut? No — Lock replaced? No

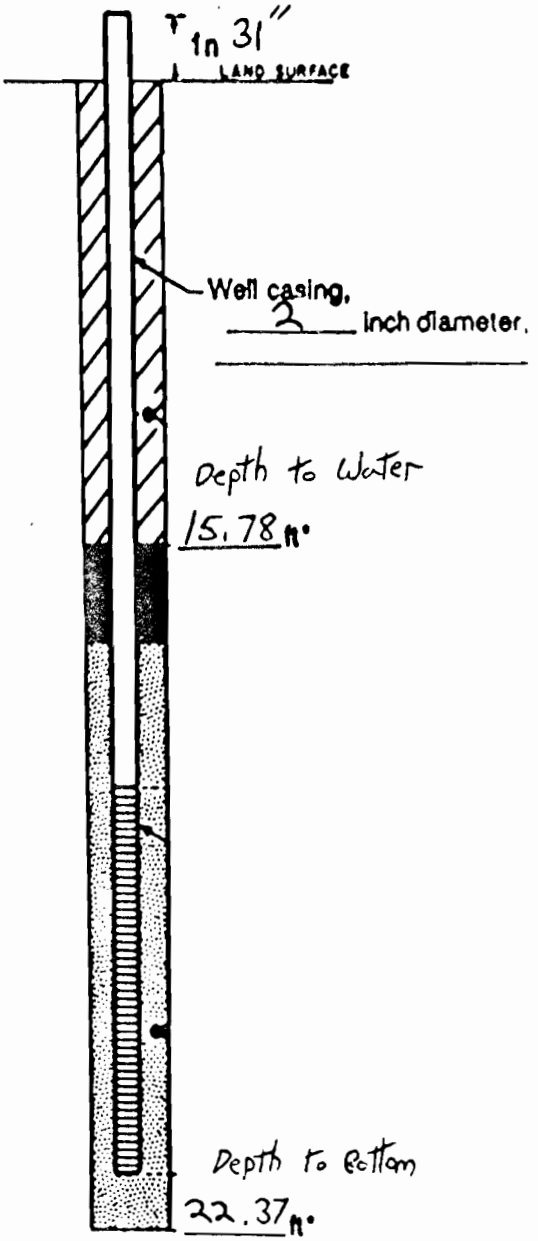
SURFACE SEAL
Differential erosion around and under base? No
Cracks? Yes — Heaved
Slope to prevent ponding in immediate area? Yes
Broken?

PVC CAP
Screwed on?
Improved - How? No Cap
Cut?

MEASURING POINT
(Marked)? Describe: Marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No



Strong Odor / clear Water

Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Po

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBarge / M. Wood
DATE Aug 18, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL GW-8R
LOCATION Oswego Co.

LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas? Yes

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 1 Type Wood
Visibility: (Painted) orange
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above) below) ground 30.5 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Y
Rust? Yes Screw cap? No
Lock cut? No Lock replaced? No

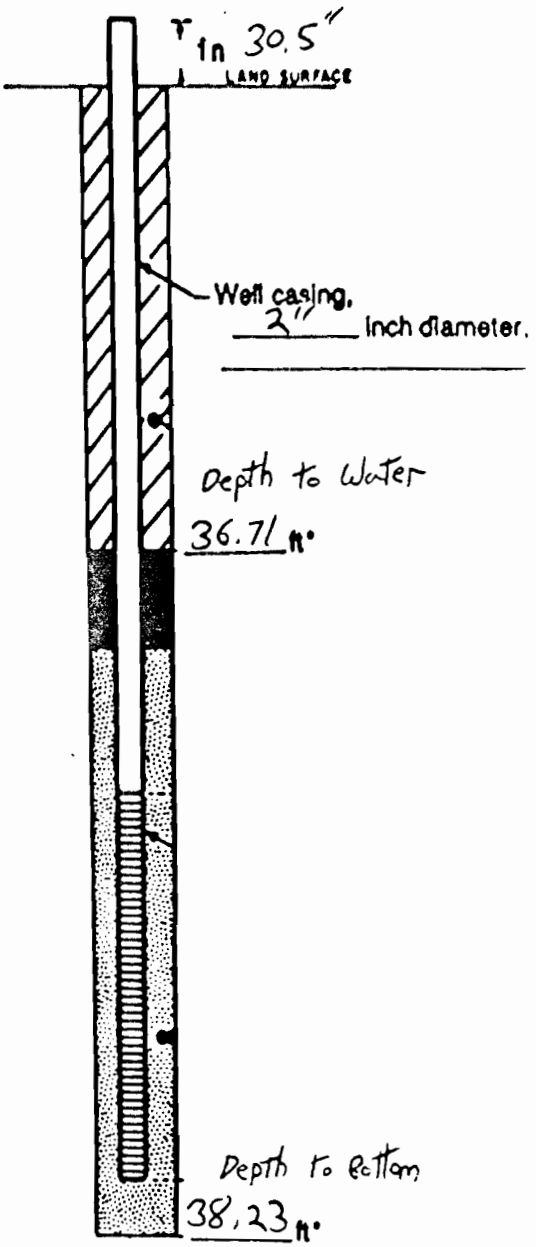
SURFACE SEAL
Differential erosion around and under base?
Cracks? Good condition
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
Screwed on?
Improved - How? No Cap
Cut?

MEASURING POINT
(Marked)? Describe: Marks / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No



Bailer, clear water, strong odor

Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Po

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. Laberge / M. Wood
DATE Aug 18, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL GW-9
LOCATION Oswego Co.

LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 0 Type _____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground: 29.4 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? No Screw cap? No
Lock cut? No Lock replaced? No

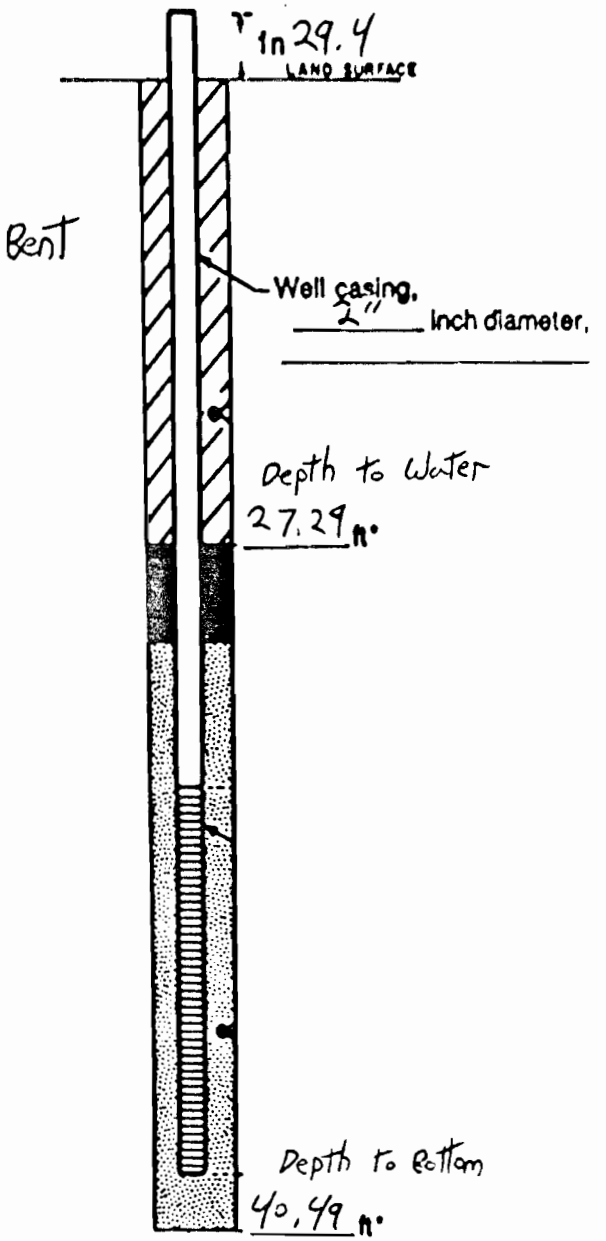
SURFACE SEAL
Differential erosion around and under base? No
Cracks? No
Slope to prevent ponding in immediate area? Yes
Broken? Slightly Heaved

PVC CAP
Screwed on?
Improved - How? No Cap
Cut?

MEASURING POINT
(Marked)? Describe: Marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No



Measuring Point is Top of Well Casing Unless Otherwise Noted.

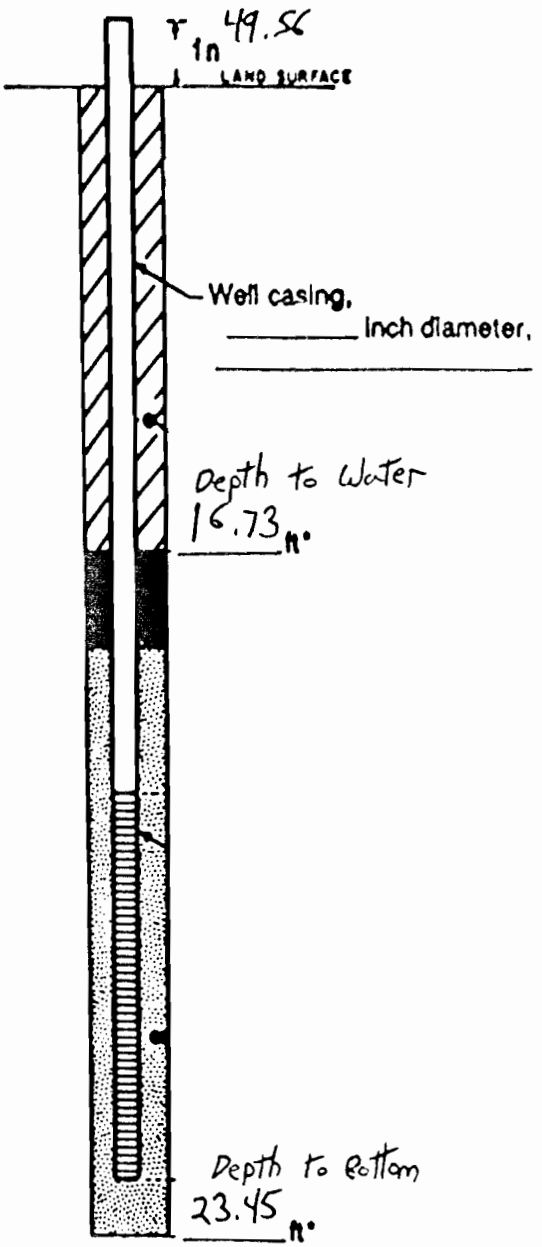
*Depth Below Measuring Poir

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBarge / M. Wood
DATE August 18, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL GW-10
LOCATION Oswego. Co.



LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas? Yes

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside X Inside ____

PROTECTION OF THE WELL
Posts: How many? 1 Type Wood
Visibility: (Painted) orange
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 49.56 inches

LOCKING CAP
Locked to prevent unauthorized entry? Y
Large gaps? N Fliptop cap? Y
Rust? N Screw cap? N
Lock cut? N Lock replaced? N

SURFACE SEAL
Differential erosion around and under base? N
Cracks? N
Slope to prevent ponding in immediate area? Y
Broken? N

PVC CAP
Screwed on?
Improved - How? No cap
Cut?

MEASURING POINT
(Marked)? Describe: marker

LOOSE CASING
Shake well on two different axes.
Comments: secure

AREA
Topography - In or near a low point or ditch? N
- Ponded water around well? N

Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Poi

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. Laberge / M. Wood
DATE Aug 18, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL GW-11A
LOCATION Oswego Co.

LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas? Yes

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 1 Type Wood
Visibility: (Painted) orange
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 23 inches

LOCKING CAP
Locked to prevent unauthorized entry? No
Large gaps? No. Fliptop cap? Not Secure
Rust? No. Screw cap? No
Lock cut? No Lock replaced? No

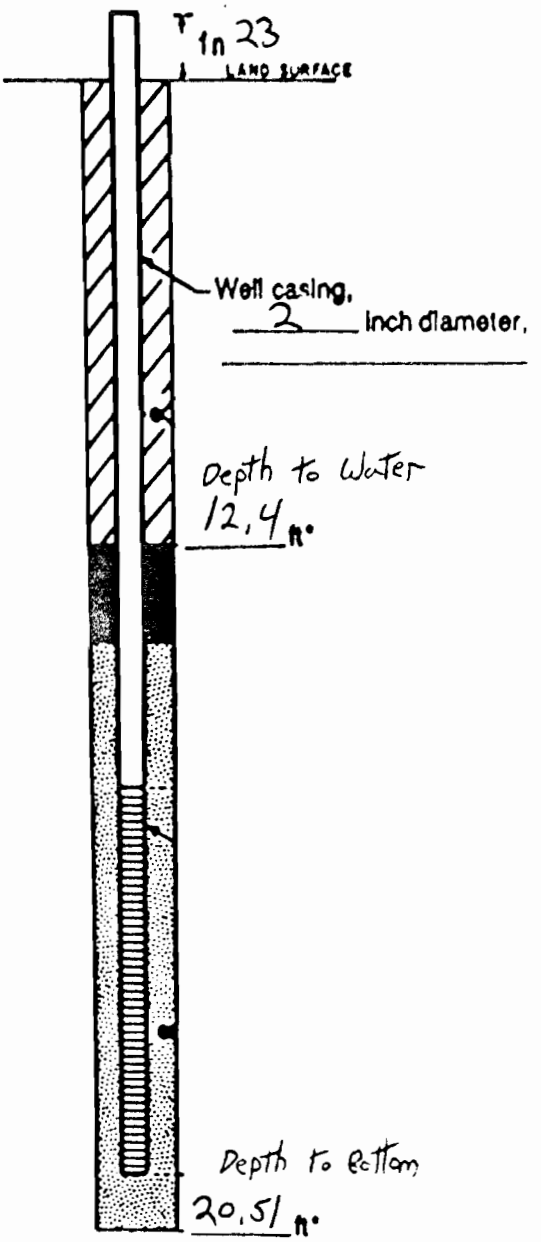
SURFACE SEAL
Differential erosion around and under base?
Cracks?
Slope to prevent ponding in immediate area? None
Broken?

PVC CAP
(Screwed) on?
Improved - How?
Cut?

MEASURING POINT
(Marked)? Describe: marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No



Bailer - stained orange

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DATE Aug 18, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL GW-12A
LOCATION Oswego Co.

LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 0 Type _____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap? Yes
Protective casing height (above, below) ground 33" inches

LOCKING CAP
Locked to prevent unauthorized entry? ~~Y~~ N
Large gaps? No Fliptop cap? Yes
Rust? No Screw cap? No Broken
Lock cut? No Lock replaced? No

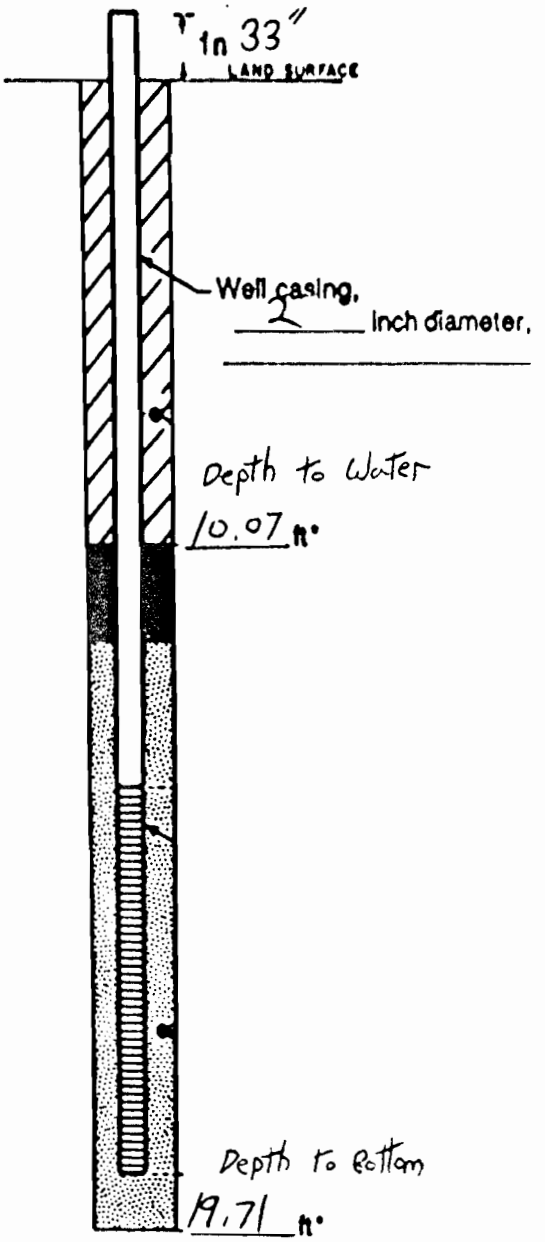
SURFACE SEAL
Differential erosion around and under base?
Cracks? Good condition
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
(Screwed) on?
Improved - How?
Cut?

MEASURING POINT
(Marked)? Describe: marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No



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*Depth Below Measuring Poi

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DATE Aug 18, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL GW-14A
LOCATION Oswego Co.

LOCATION MARKED ADEQUATELY
Map location accurate? Y
Adequately flagged in hard to find areas? Y

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 1 Type Wood
Visibility: (Painted) orange
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap? Yes
Protective casing height (above, below) ground 26 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? No Screw cap? No
Lock cut? No Lock replaced? No

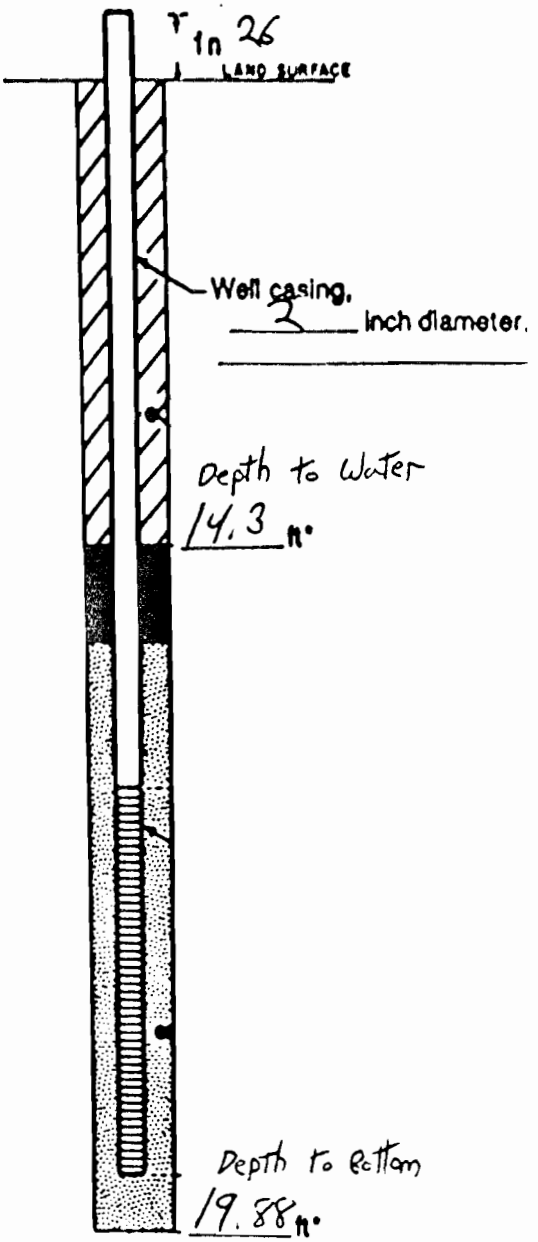
SURFACE SEAL
Differential erosion around and under base?
Cracks? Good condition
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
(Screwed) on?
Improved - How?
Cut?

MEASURING POINT
(Marked)? Describe: marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No



Water very clear

Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Po

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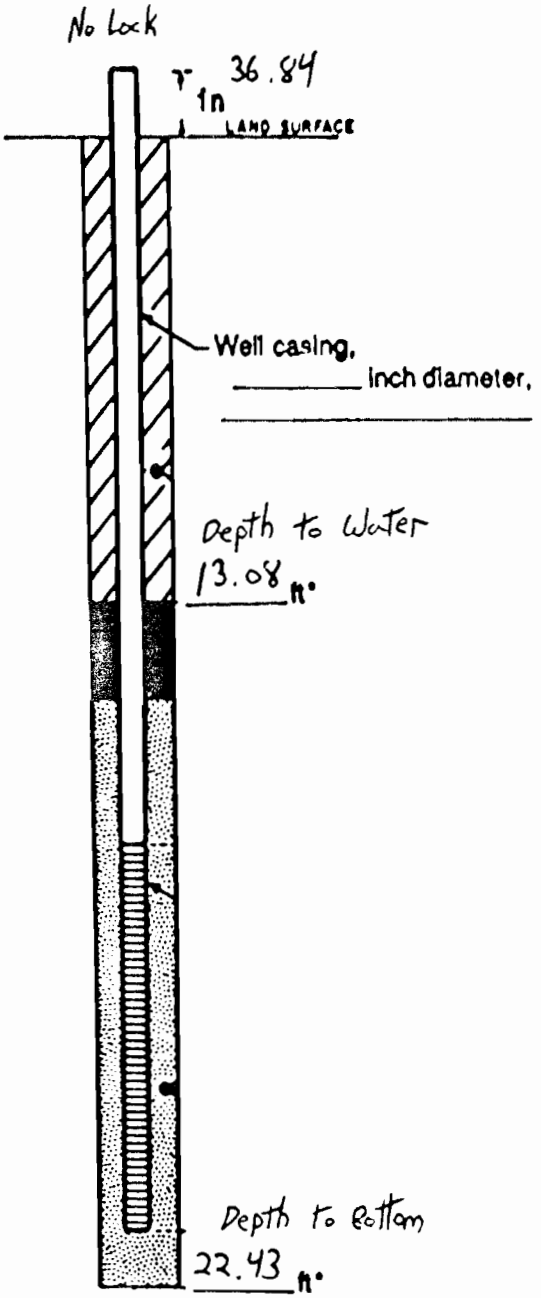
PERFORMED BY A. LaBorge / M. Wood
DATE August 18, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL GW-15
LOCATION Oswego Co.



LOCATION MARKED ADEQUATELY
Map location accurate? Y
Adequately flagged in hard to find areas? Y

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside X Inside ____

PROTECTION OF THE WELL
Posts: How many? 1 Type Wood
Visibility: (Painted orange)
Flagged

PROTECTIVE CASING
Above ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 36.84 inches

LOCKING CAP
Locked to prevent unauthorized entry? N
Large gaps? N Fliptop cap? Y
Rust? N Screw cap? N
Lock cut? N Lock replaced? N

SURFACE SEAL
Differential erosion around and under base? N
Cracks? N
Slope to prevent ponding in immediate area? -
Broken? N

PVC CAP
(Screwed on?)
Improved - How?
Cut?

MEASURING POINT
(Marked?) Describe: marker Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: secure

AREA
Topography - In or near a low point or ditch? N
- Ponded water around well? N

Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

*Depth Below Measuring Poir

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PERFORMED BY A. LaBorge / M. Wood
DATE August 18, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL GW-16
LOCATION Oswego Co.

LOCATION MARKED ADEQUATELY
Map location accurate? Y
Adequately flagged in hard to find areas? N

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside X Inside ____

PROTECTION OF THE WELL
Posts: How many? 0 Type ____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 40.8 inches

LOCKING CAP
Locked to prevent unauthorized entry? Y
Large gaps? N Fliptop cap? Y
Rust? Y Screw cap? N
Lock cut? N Lock replaced? N

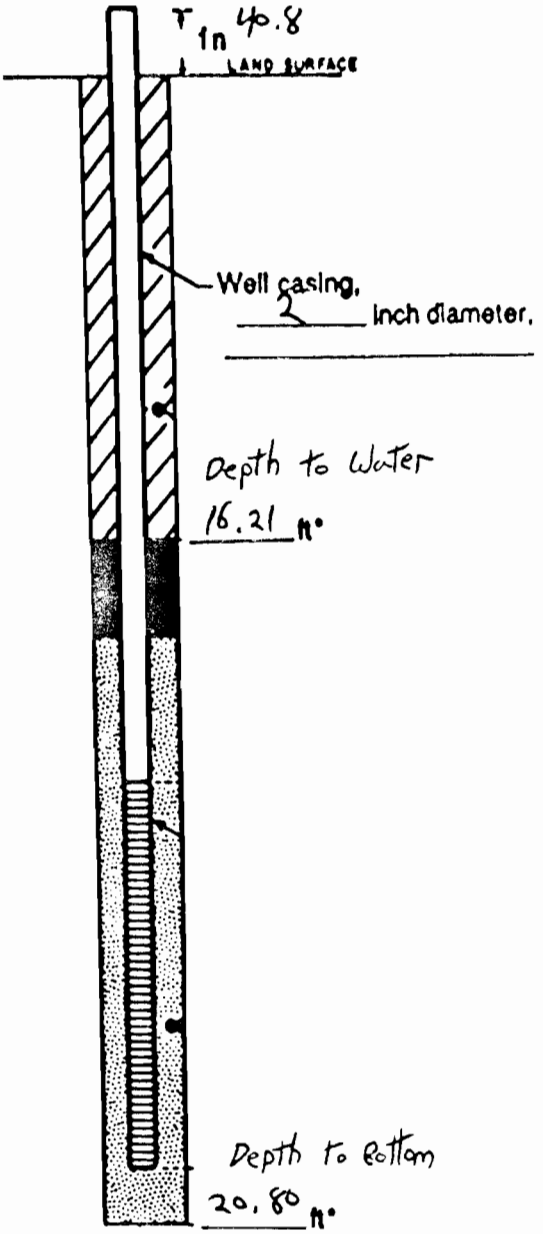
SURFACE SEAL
Differential erosion around and under base? N
Cracks? N
Slope to prevent ponding in immediate area? -
Broken? N

PVC CAP
Screwed on?
Improved - How? None
Cut?

MEASURING POINT
(Marked)? Describe: marker

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? N
- Ponded water around well? N



Measuring Point is
Top of Well Casing
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*Depth Below Measuring Poir

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DATE Aug 18, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL GW-17
LOCATION Oswego Co

LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 0 Type ____
Visibility: Painted
Flagged

PROTECTIVE CASING
Above ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 36 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? No Screw cap? No
Lock cut? No Lock replaced? No

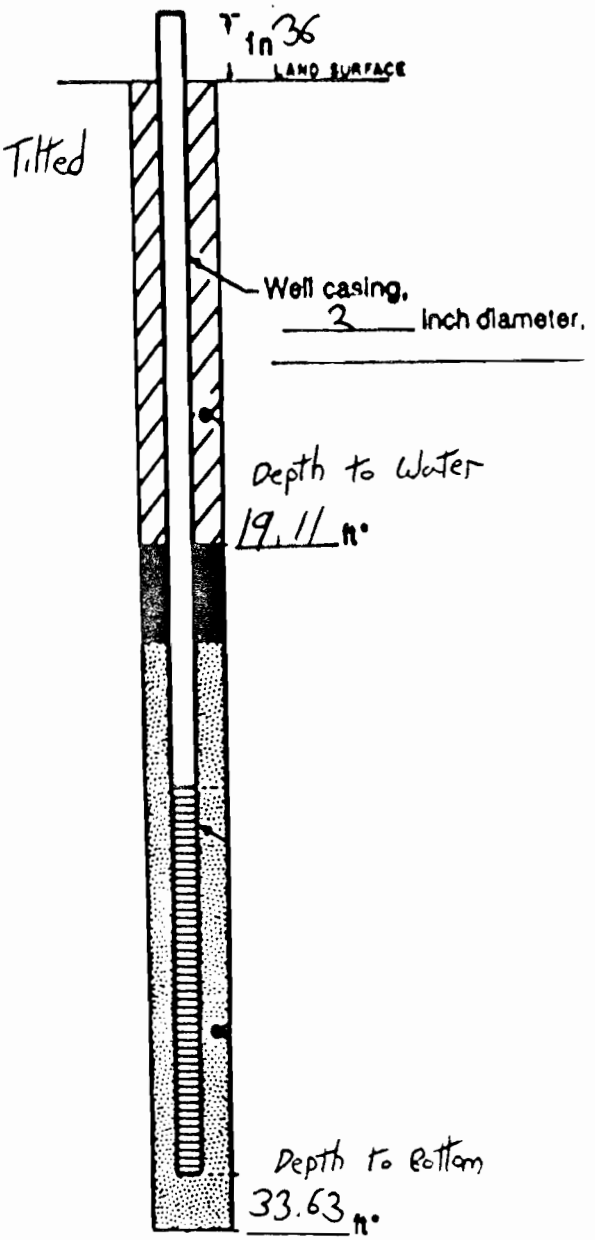
SURFACE SEAL
Differential erosion around and under base? Slightly Heaved
Cracks?
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
Screwed on?
Improved - How? None
Cut?

MEASURING POINT
Marked? Describe: marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Pc

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MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL GW-18R
LOCATION Oswego Co

LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 0 Type _____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 27 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? No Screw cap? No
Lock cut? No Lock replaced? No

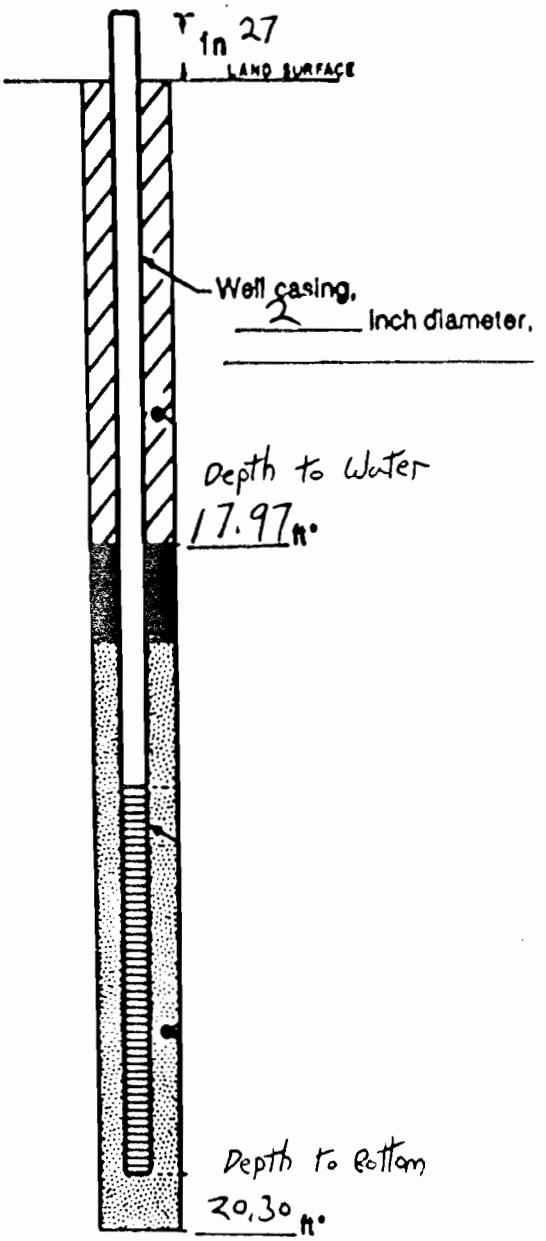
SURFACE SEAL
Differential erosion around and under base? No
Cracks? No
Slope to prevent ponding in immediate area? Yes
Broken? No

PVC CAP
Screwed on?
Improved - How? None
Cut?

MEASURING POINT
(Marked)? Describe: marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No



clear water

Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Poir

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DATE August 18, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL 560-26
LOCATION

LOCATION MARKED ADEQUATELY
Map location accurate? Y
Adequately flagged in hard to find areas? –

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside X Inside ____

PROTECTION OF THE WELL
Posts: How many? 1 Type concrete filled
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 29.76 inches

LOCKING CAP
Locked to prevent unauthorized entry? Y
Large gaps? N Fliptop cap? Y
Rust? N Screw cap? N
Lock cut? N Lock replaced? N

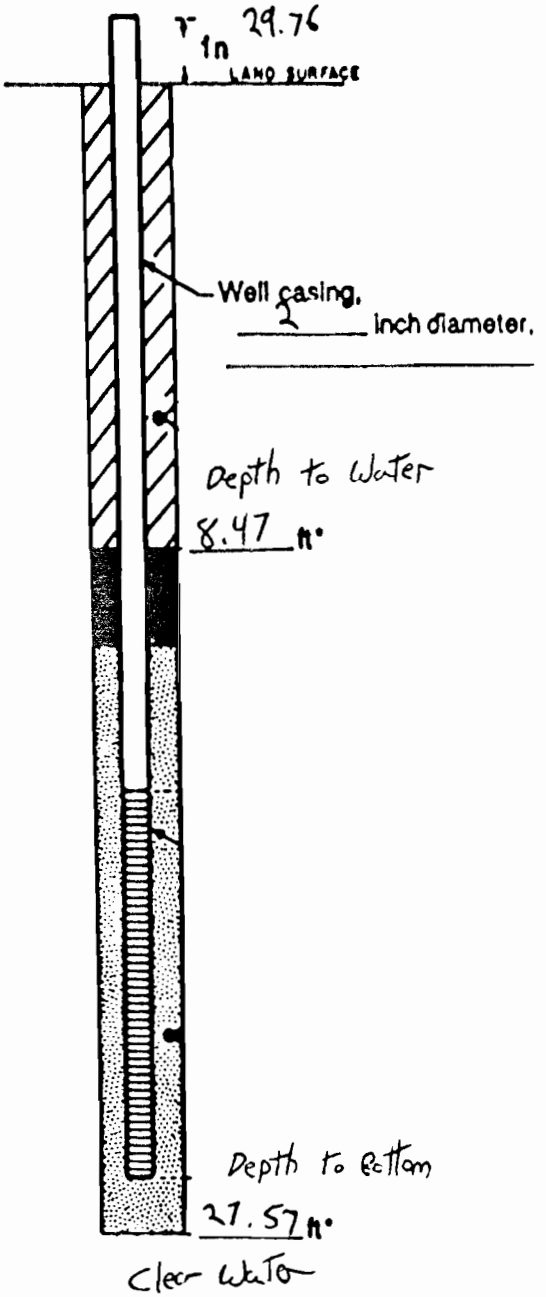
SURFACE SEAL
Differential erosion around and under base? Yes
Cracks? Yes
Slope to prevent ponding in immediate area?
Broken? Yes

PVC CAP
Screwed on?
Improved - How? None
Cut?

MEASURING POINT
(Marked)? Describe: marker on PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? N
- Ponded water around well? N



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*Depth Below Measuring Poi

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DATE Aug 18, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL SGW-27A
LOCATION Oswego Co.

LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas? Yes

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 1 Type _____
Visibility: (Painted) orange
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 32.5 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? N. Fliptop cap? Yes
Rust? No Screw cap? N.
Lock cut? No Lock replaced? N.

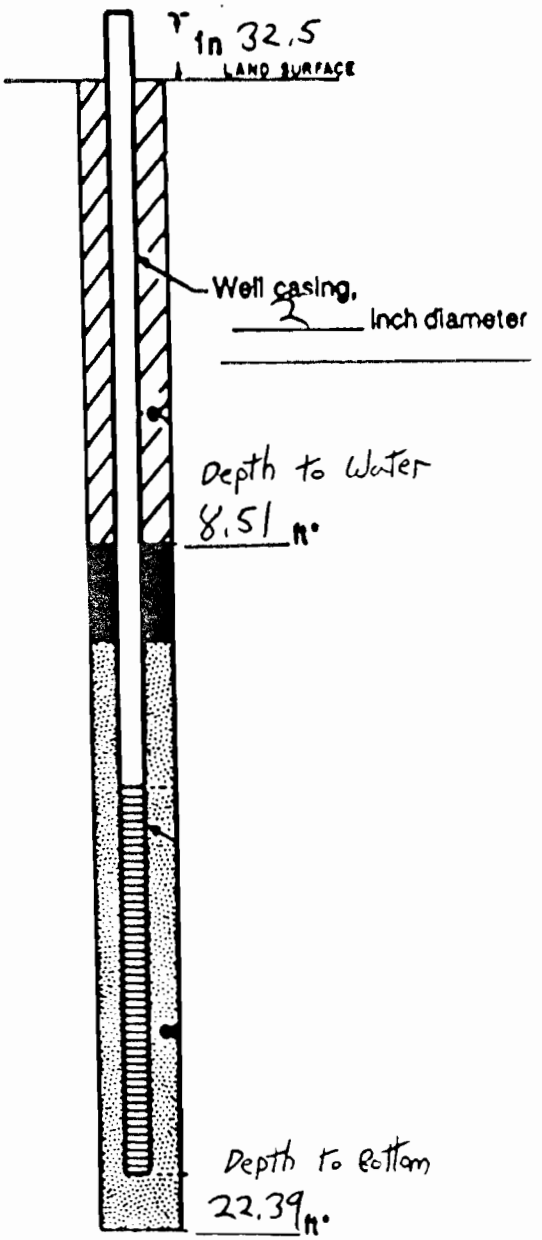
SURFACE SEAL
Differential erosion around and under base? Heaved seal
Cracks?
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
(Screwed on?
Improved - How?
Cut?

MEASURING POINT
(Marked?) Describe: marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No



Very clear

Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Pc

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DATE Aug 18, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL SCW-27B
LOCATION Oswego Co.

LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas? No

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 1 Type _____
Visibility: (Painted) orange
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 35 inches

LOCKING CAP
Locked to prevent unauthorized entry? (No)
Large gaps? No Fliptop cap? Yes
Rust? No Screw cap? No
Lock cut? No Lock replaced? No

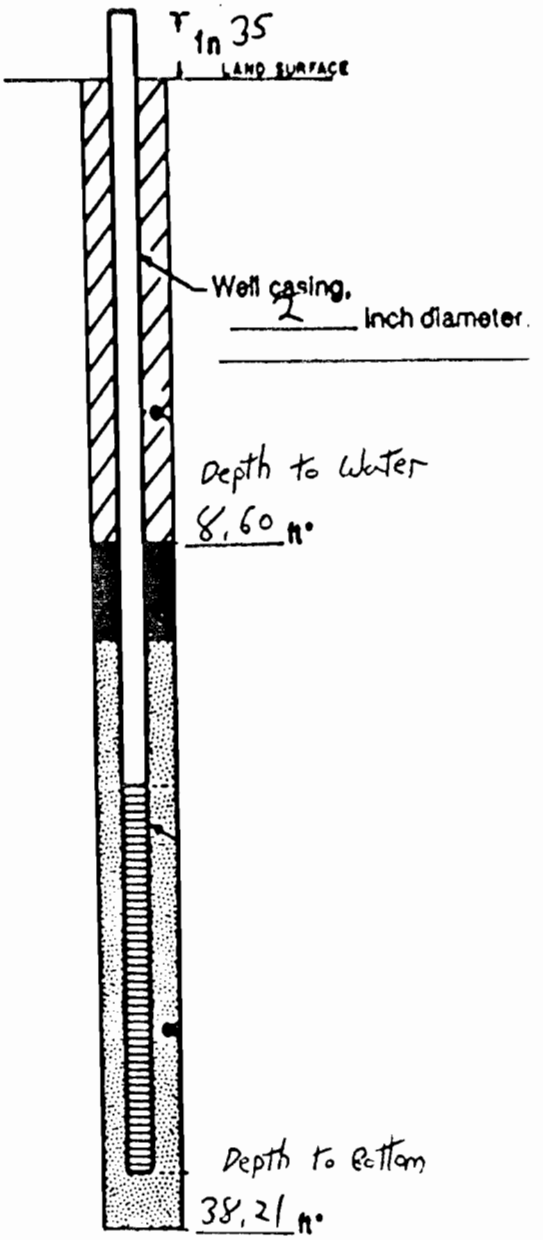
SURFACE SEAL
Differential erosion around and under base?
Cracks?
Slope to prevent ponding in immediate area? None
Broken?

PVC CAP
(Screwed) on?
Improved - How?
Cut?

MEASURING POINT
(Marked)? Describe: marker / Top of pvc

LOOSE CASING
Shake well on two different axes.
Comments: Not Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No



Water color: orange

Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Po

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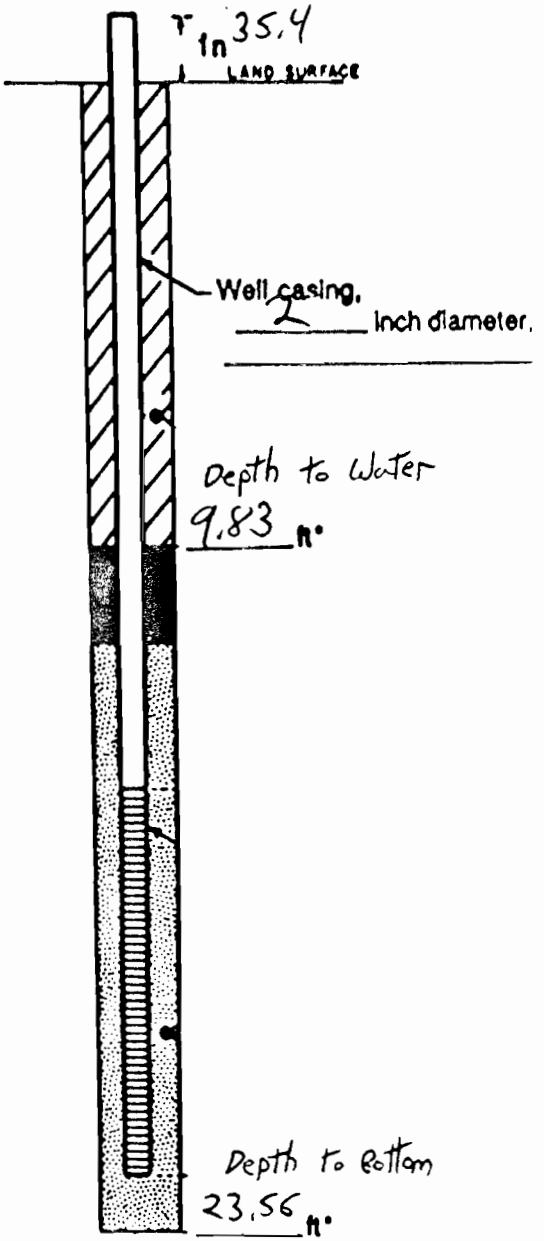
MONITORING WELL INTEGRITY FIELD SURVEY

SITE Valley Landfill
WELL SGW-28
LOCATION Oswego Co.



LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas? No

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 0 Type _____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap? Yes
Protective casing height (above, below) ground 35.4 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? No Screw cap? Push-on
Lock cut? No Lock replaced? No

SURFACE SEAL
Differential erosion around and under base? No
Cracks? No
Slope to prevent ponding in immediate area? Yes
Broken? No

PVC CAP
Screwed on? Push on
Improved - How?
Cut?

MEASURING POINT
Marked? Describe: Marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? N
- Ponded water around well? N

Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Po

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DATE Aug 18, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL SGW-29
LOCATION Oswego Co.

LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas? Yes

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 1 Type wood
Visibility: (Painted) orange
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap? Yes
Protective casing height (above, below) ground 30 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? No Screw cap? No
Lock cut? Yes Lock replaced? Yes

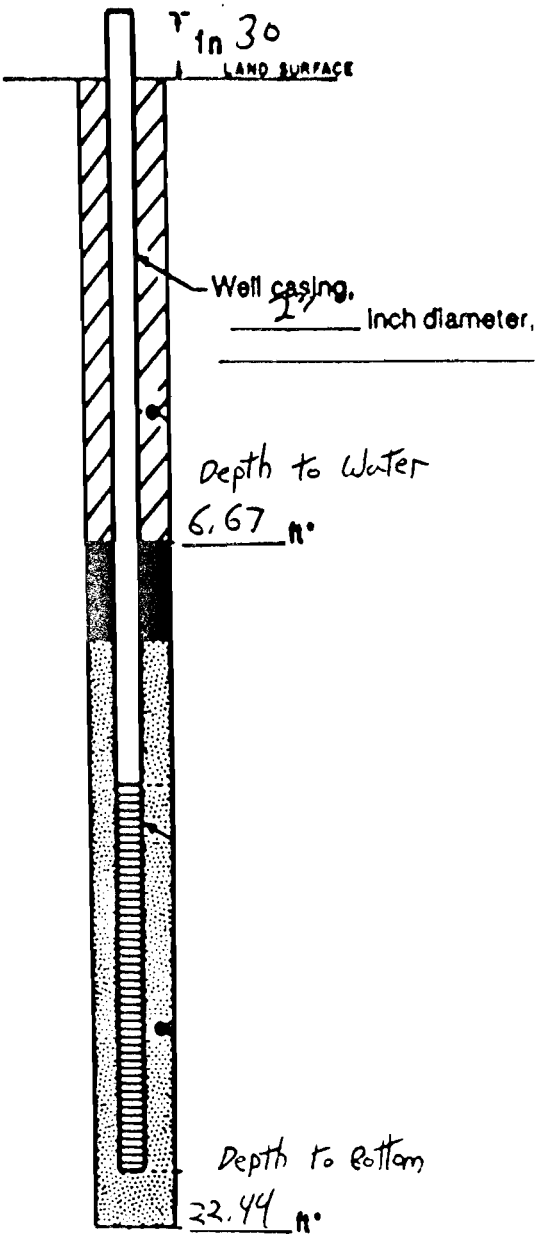
SURFACE SEAL
Differential erosion around and under base? No
Cracks?
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
Screwed on?
Improved - How? None
Cut?

MEASURING POINT
(Marked)? Describe: meter / Top of pvc

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

*Depth Below Measuring Poi

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DATE August 18, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL SGW-30A
LOCATION Oswego Co

LOCATION MARKED ADEQUATELY
Map location accurate? Y
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside X Inside ____

PROTECTION OF THE WELL
Posts: How many? 1 Type metal Road Post
Visibility: Painted
Flagged

PROTECTIVE CASING
Above ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 35.52 inches

LOCKING CAP
Locked to prevent unauthorized entry? Y
Large gaps? N Fliptop cap? Y
Rust? N Screw cap? N
Lock cut? N Lock replaced? N

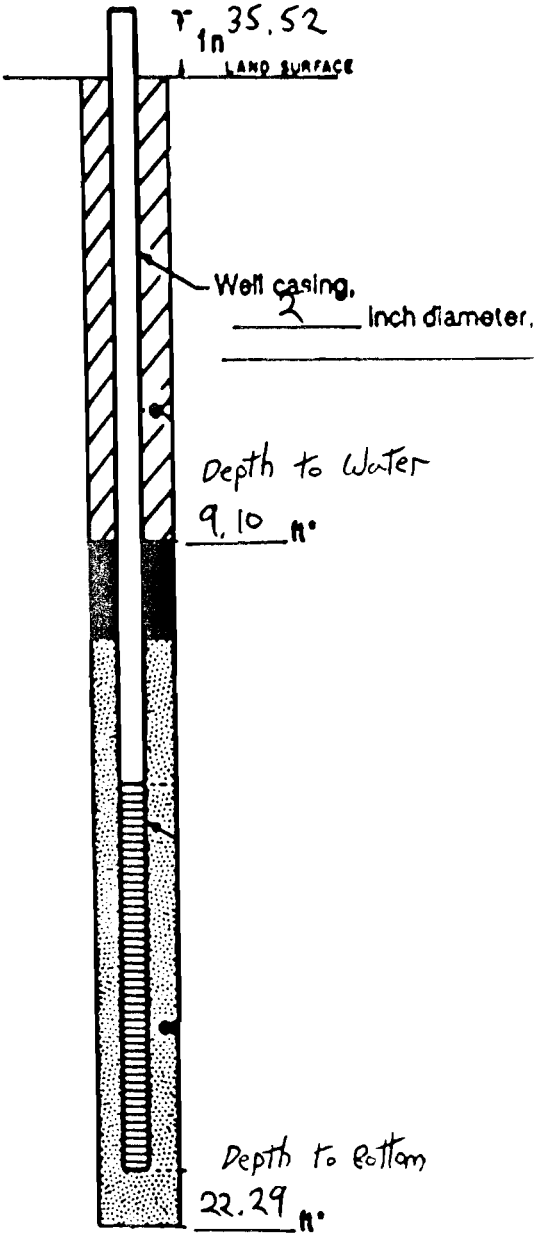
SURFACE SEAL
Differential erosion around and under base? N
Cracks? N
Slope to prevent ponding in immediate area? _
Broken? N

PVC CAP
Screwed on?
Improved - How? None
Cut?

MEASURING POINT
Marked? Describe: marker

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? N
- Ponded water around well? N



Boiler - Some Tar on Rope
Slight Funnoid

Measuring Point is
Top of Well Casing
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*Depth Below Measuring Po

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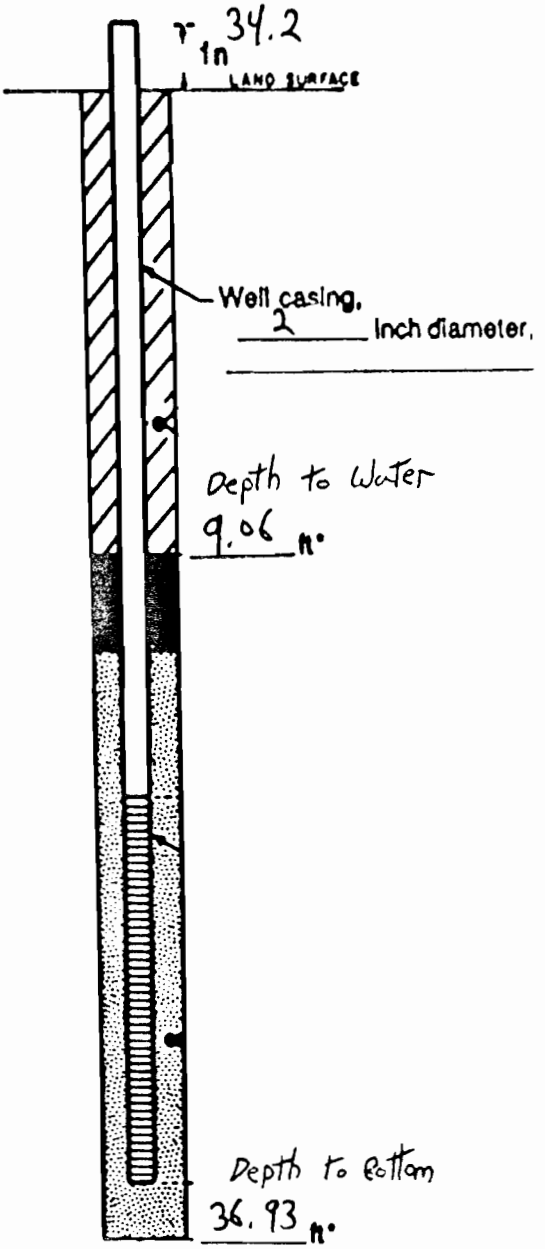
DATE August 18, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL 364-30B
LOCATION Oswego Co.



LOCATION MARKED ADEQUATELY
Map location accurate? Y
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside X Inside ____

PROTECTION OF THE WELL
Posts: How many? 1 Type metal road post
Visibility: Painted
Flagged

PROTECTIVE CASING
~~Above~~ ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (~~above~~, below) ground 34.2 inches

LOCKING CAP
Locked to prevent unauthorized entry? Y
Large gaps? N Fliptop cap? Y
Rust? N Screw cap? N
Lock cut? N Lock replaced? N

SURFACE SEAL
Differential erosion around and under base?
Cracks?
Slope to prevent ponding in immediate area?
Broken? Slightly Heaved

PVC CAP
Screwed on?
Improved - How? None
Cut?

MEASURING POINT
Marked? Describe: mark

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? N
- Ponded water around well? N

Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Poi

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DATE _____

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL SGW-33
LOCATION Volney New York

LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas? No

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 0 Type _____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap? Yes
Protective casing height (above, below) ground 48 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? No Screw cap? No
Lock cut? No Lock replaced? No

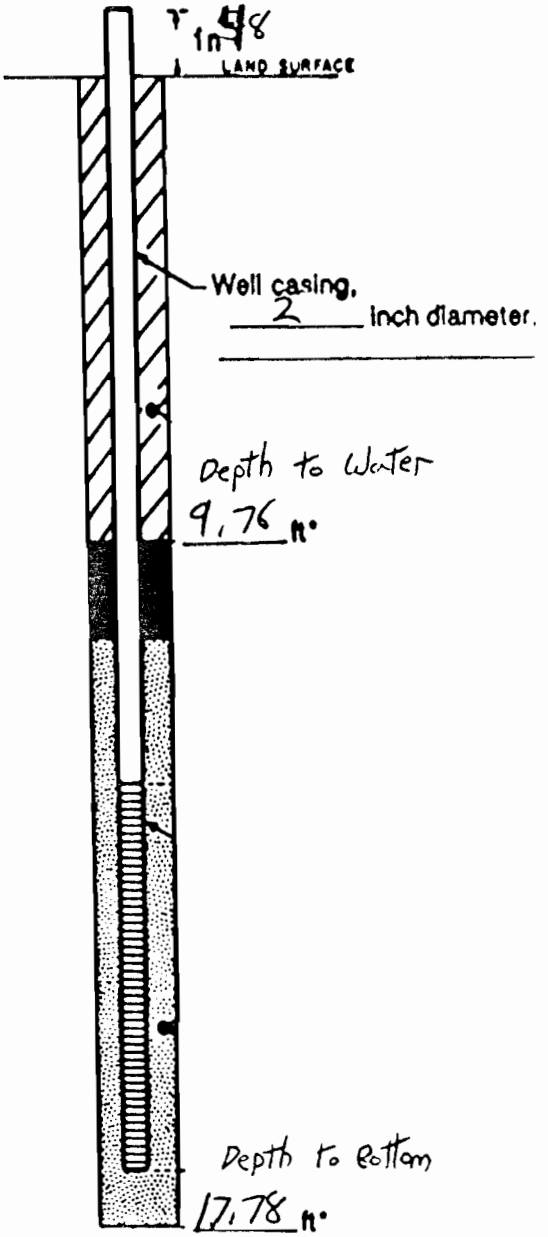
SURFACE SEAL
Differential erosion around and under base?
Cracks?
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
(Screwed) on?
Improved - How?
Cut?

MEASURING POINT
(Marked)? Describe: marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Po

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. Laberge / M. Wood
DATE Aug 18, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL 560-34
LOCATION Oswego Co.

LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas? Yes

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 1 Type ____
Visibility: (Painted) orange
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 32.04 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? No Screw cap? No
Lock cut? No Lock replaced? No

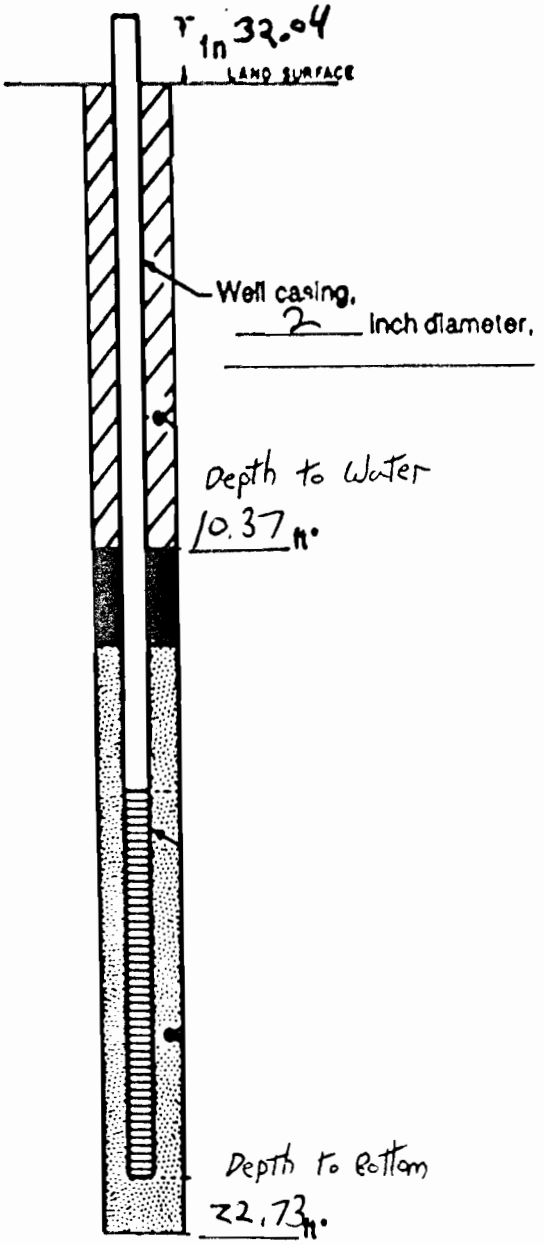
SURFACE SEAL
Differential erosion around and under base? No
Cracks? Yes
Slope to prevent ponding in immediate area? Yes
Broken? yes

PVC CAP
(Screwed) on?
Improved - How?
Cut?

MEASURING POINT
(Marked)? Describe: marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No



Measuring Point is Top of Well Casing Unless Otherwise Noted.

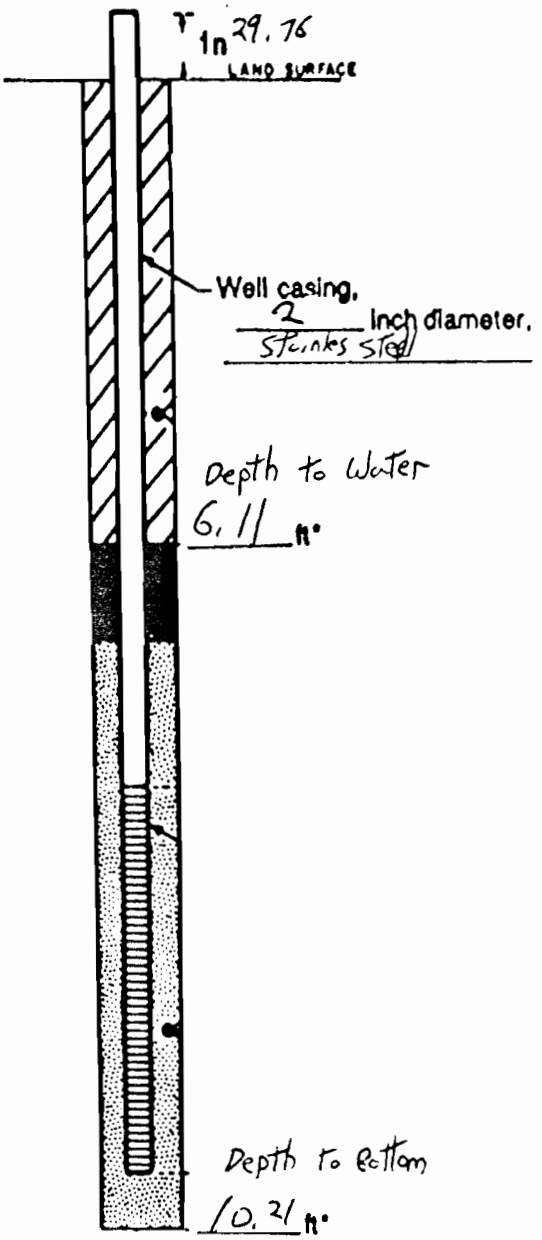
*Depth Below Measuring Poir

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBoyc / M. Wood
DATE Aug 18, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfills
WELL VBld-2
LOCATION Oswego Co.



LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas? Yes

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 1 Type metal
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 29.76 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? Yes Screw cap? No
Lock cut? Yes Lock replaced? Yes

SURFACE SEAL
Differential erosion around and under base?
Cracks? None
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
(Screwed on?)
Improved - How?
Cut?

MEASURING POINT
(Marked?) Describe: marker / Top of pvc

LOOSE CASING
Shake well on two different axes.
Comments: secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No

Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Poir

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBorge / M. Wood
DATE Aug 19, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL VBW-35
LOCATION Oswego Co.

LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 0 Type _____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 36 inches

LOCKING CAP
Locked to prevent unauthorized entry? Y
Large gaps? N Fliptop cap? Y
Rust? Y Screw cap? N
Lock cut? Y Lock replaced? Y

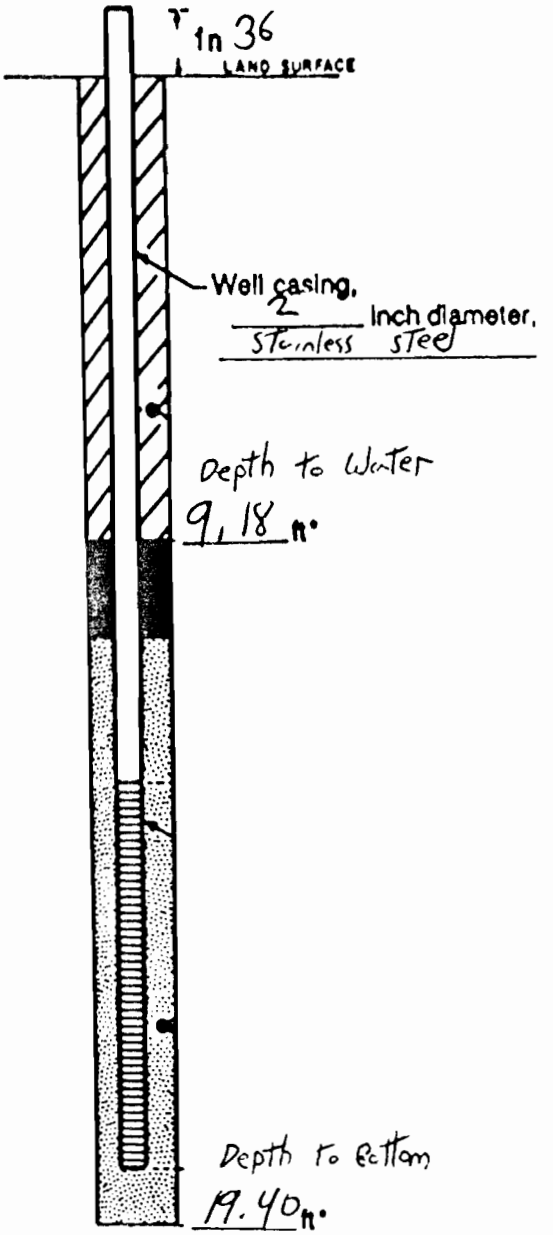
SURFACE SEAL
Differential erosion around and under base?
Cracks? None
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
(Screwed on?)
Improved - How?
Cut?

MEASURING POINT
(Marked?) Describe: marker / Top of pvc

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No



clean

Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Poir

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. Laboye / M. Wood
DATE Aug 19, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL VBW-3I
LOCATION Oswego Co.

LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 0 Type _____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 33.5 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? Yes Screw cap? No
Lock cut? Yes Lock replaced? Yes

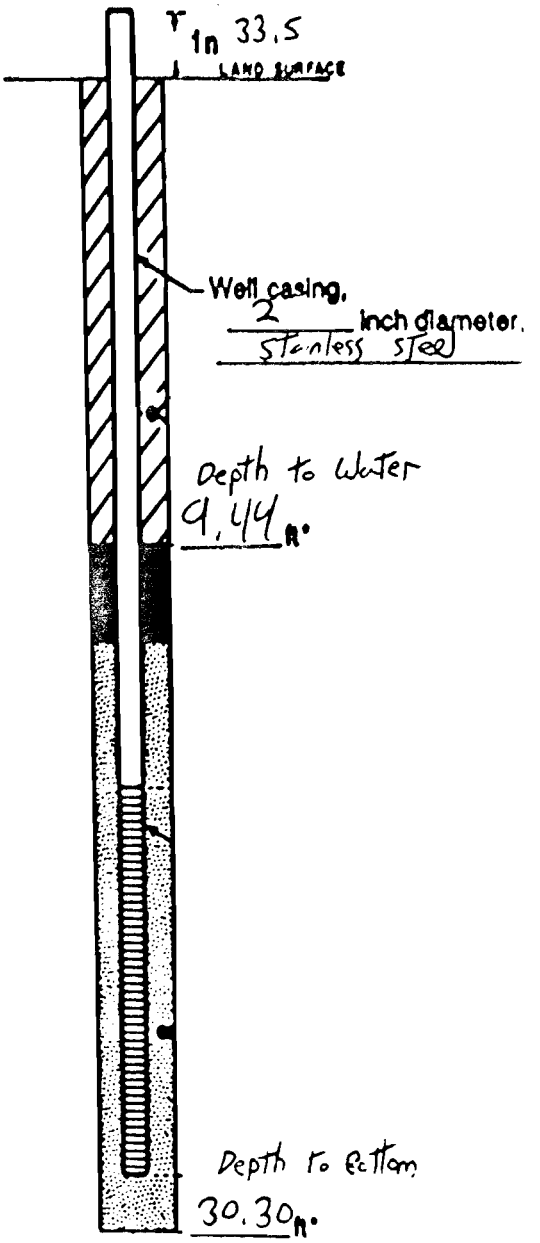
SURFACE SEAL
Differential erosion around and under base?
Cracks? None
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
(Screwed) on?
Improved - How?
Cut?

MEASURING POINT
(Marked)? Describe: meter / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No



clear

Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

*Depth Below Measuring Poi

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Environmental Services

PERFORMED BY A. LaBorge / M. Wood
DATE Aug 19, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL VBW-3P
LOCATION Oswego Co.

LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 0 Type _____
Visibility: Painted
Flagged

PROTECTIVE CASING
~~Above~~ ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 27.5 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? Yes Screw cap? No
Lock cut? yes Lock replaced? Yes

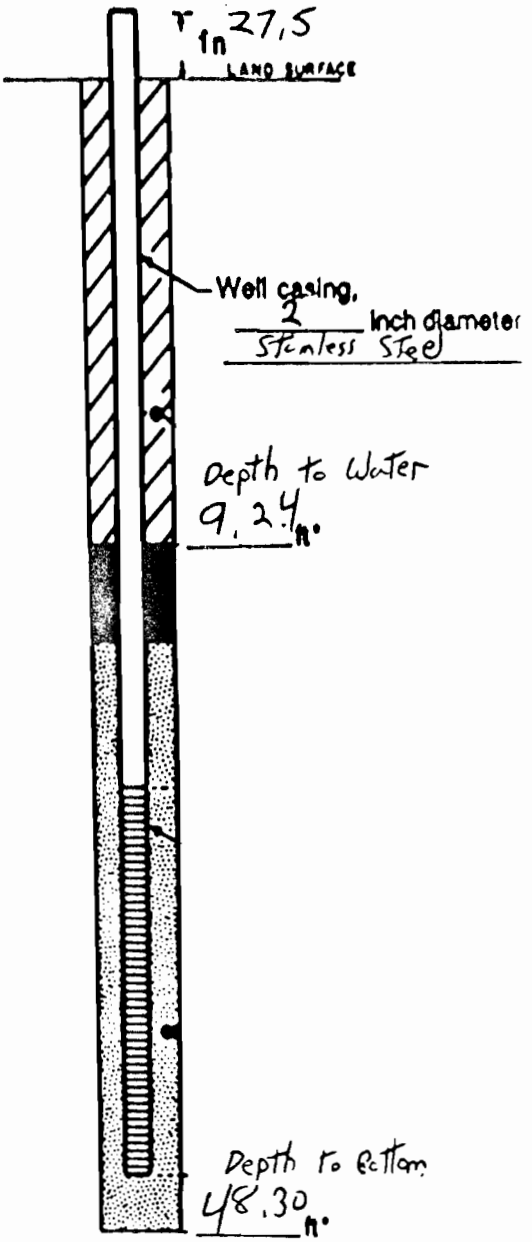
SURFACE SEAL
Differential erosion around and under base?
Cracks?
Slope to prevent ponding in immediate area? None
Broken?

PVC CAP
Screwed on?
Improved - How?
Cut?

MEASURING POINT
~~Marked~~? Describe: marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No



clean

Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Po

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. Labrege / M. Wood
DATE _____

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL VBW-3BR
LOCATION Oswego Co.

LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 0 Type _____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 39.5 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? Yes Screw cap? No
Lock cut? Yes Lock replaced? Yes

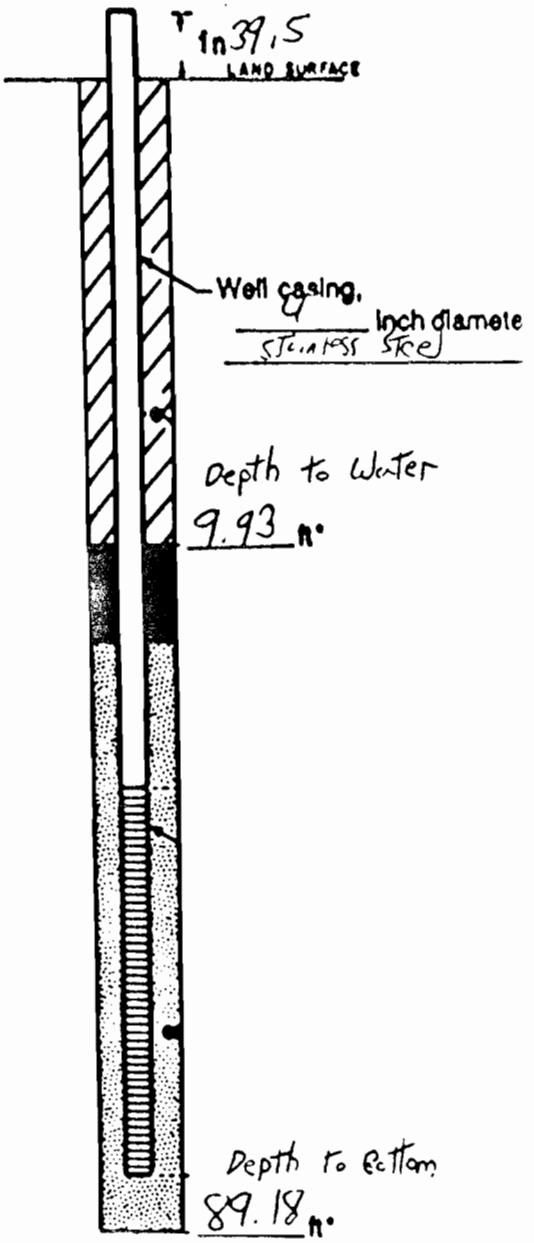
SURFACE SEAL
Differential erosion around and under base? Heaved
Cracks?
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
(Screwed on?
Improved - How?
Cut?

MEASURING POINT
Marked? Describe: marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No



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*Depth Below Measuring P

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY M. Wood
DATE Dec 16, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Valley Landfill
WELL VBW-4S
LOCATION

This is the real VBW-4S the old sheet is GW-2

LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas? Yes

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 1 Type Wood
Visibility: (Painted) orange
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap? No
Protective casing height (above) below) ground 2.39 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? Yes Screw cap? No
Lock cut? Yes Lock replaced? No

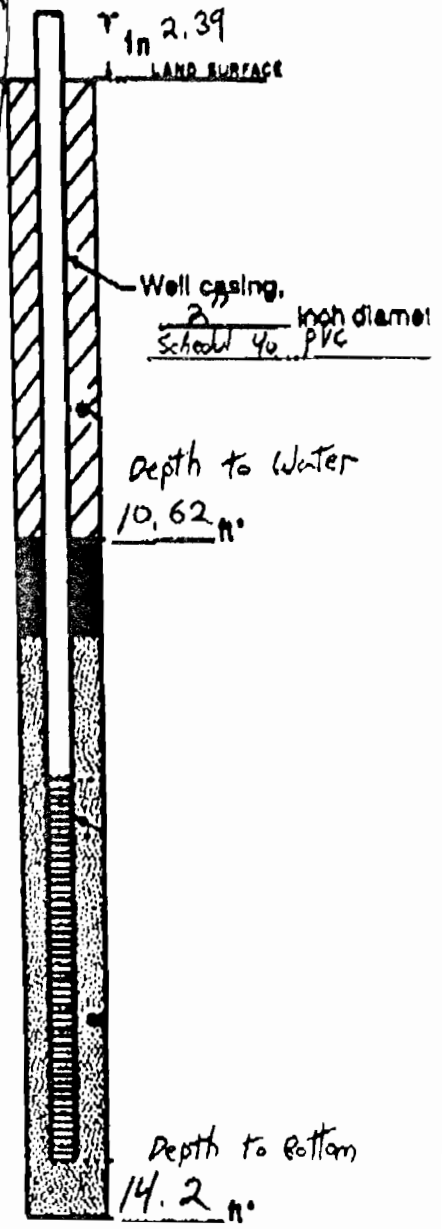
SURFACE SEAL
Differential erosion around and under base?
Cracks? None
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
(Screwed on?
Improved - How?
Cut?

MEASURING POINT
(Marked)? Describe: Black fermanent marker

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBorge / M. Wood
DATE August 19, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL VLW-4D
LOCATION Oswego Co.

LOCATION MARKED ADEQUATELY
Map location accurate? Y
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside X Inside ____

PROTECTION OF THE WELL
Posts: How many? 1 Type Wood
Visibility: (Painted) orange
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 26.34 inches

LOCKING CAP
Locked to prevent unauthorized entry? Y
Large gaps? N Fliptop cap? Y
Rust? Y Screw cap? N
Lock cut? Y Lock replaced? Y

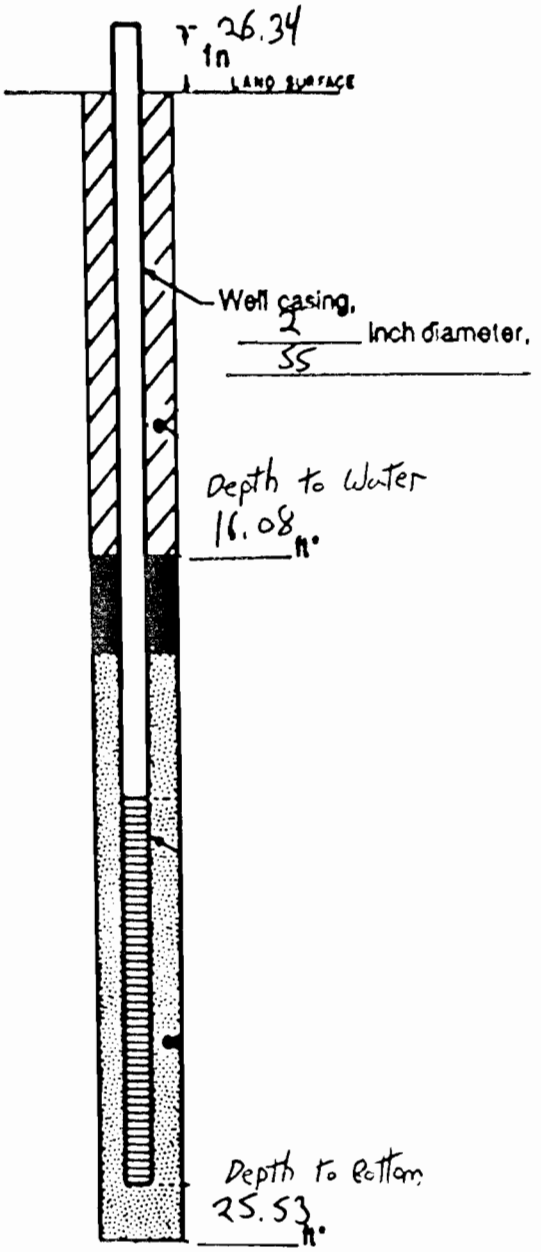
SURFACE SEAL
Differential erosion around and under base?
Cracks?
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
(Screwed) on?
Improved - How?
Cut?

MEASURING POINT
Marked? Describe: marker Top of pvc

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? N
- Ponded water around well? N



Measuring Point is Top of Well Casing Unless Otherwise Noted.

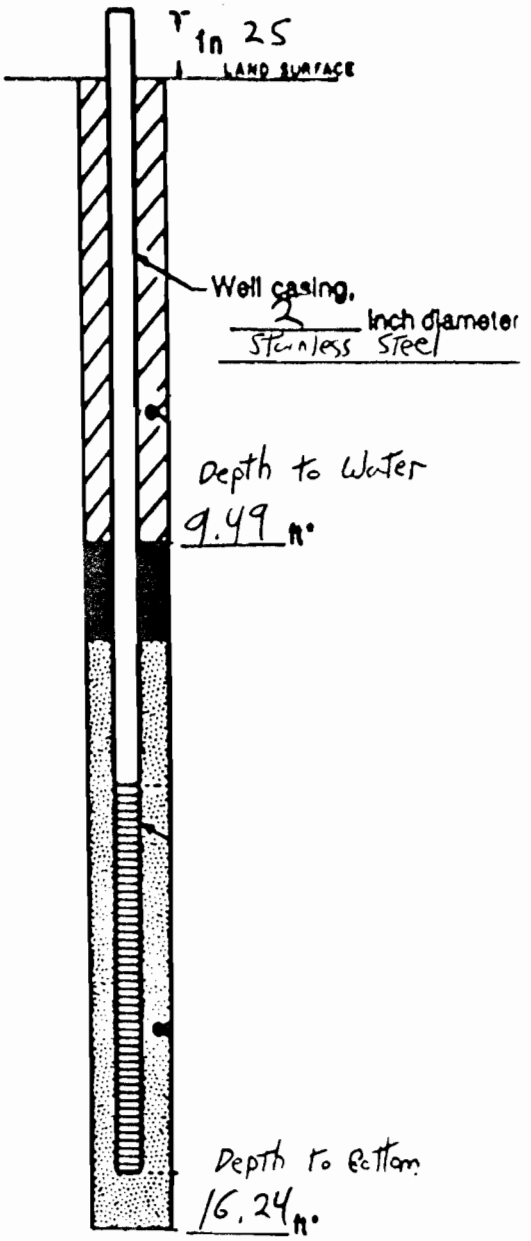
*Depth Below Measuring Poir

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBorde / M. Wood
DATE Aug 19, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL VOLW-5
LOCATION Oswego Co.



LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas? No

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 0 Type _____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 25 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? Yes Screw cap? No
Lock cut? Yes Lock replaced? Yes

SURFACE SEAL
Differential erosion around and under base? No
Cracks? Yes
Slope to prevent ponding in immediate area? Yes
Broken? No

PVC CAP
(Screwed) on?
Improved - How?
Cut?

MEASURING POINT
(Marked)? Describe: Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No

Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Po

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBerge / M. Wood
DATE August 19, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL VBW-6
LOCATION Oswego Co.

LOCATION MARKED ADEQUATELY
Map location accurate? Y
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside X Inside ____

PROTECTION OF THE WELL
Posts: How many? 0 Type ____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 32 inches

LOCKING CAP
Locked to prevent unauthorized entry? Y
Large gaps? N Fliptop cap? Y
Rust? N Screw cap? N
Lock cut? Y Lock replaced? Y

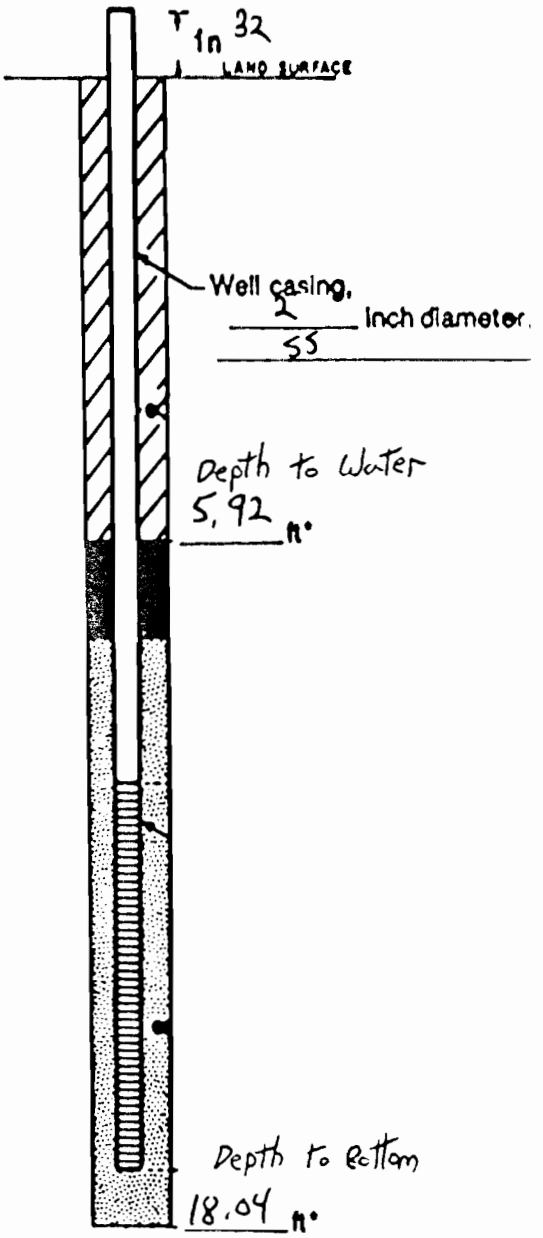
SURFACE SEAL None
Differential erosion around and under base?
Cracks?
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
(Screwed) on?
Improved - How?
Cut?

MEASURING POINT
Marked? Describe: marker Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? N
- Ponded water around well? N



Measuring Point is Top of Well Casing Unless Otherwise Noted.

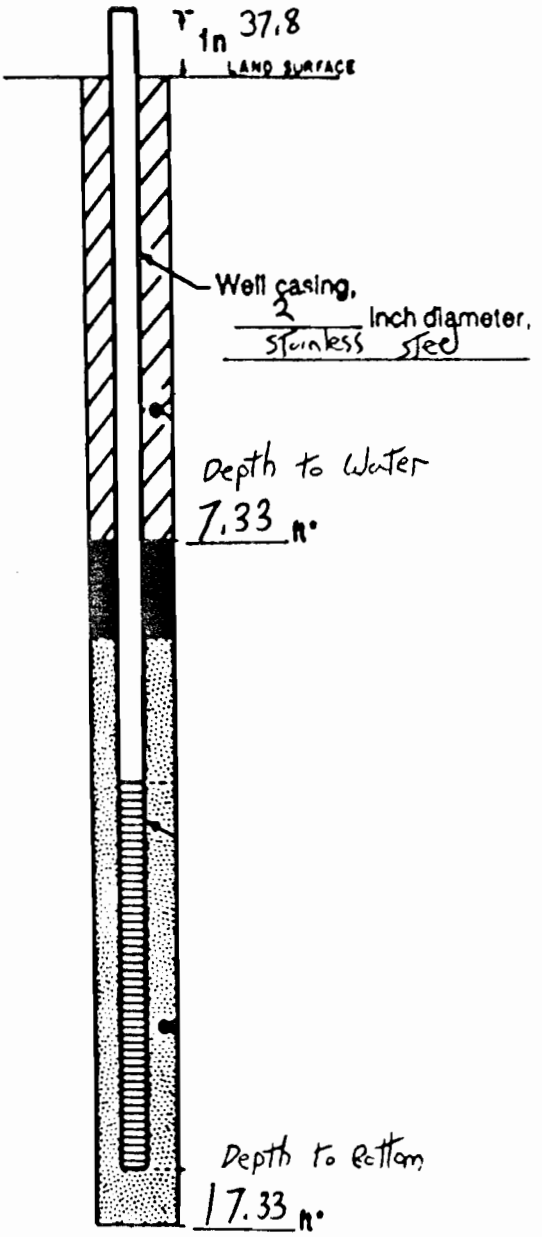
*Depth Below Measuring Po

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBorge / M. Wood
DATE August 19, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL VBW-7S
LOCATION Oswego Co.



LOCATION MARKED ADEQUATELY
Map location accurate? Y
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside X Inside ____

PROTECTION OF THE WELL
Posts: How many? 1 Type metal road marker
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 37.8 inches

LOCKING CAP
Locked to prevent unauthorized entry? Y
Large gaps? N Fliptop cap? Y
Rust? N Screw cap? N
Lock cut? Y Lock replaced? Y

SURFACE SEAL None
Differential erosion around and under base?
Cracks?
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
(Screwed) on?
Improved - How?
Cut?

MEASURING POINT
Marked? Describe: Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? N
- Ponded water around well? N

Measuring Point is Top of Well Casing Unless Otherwise Noted.

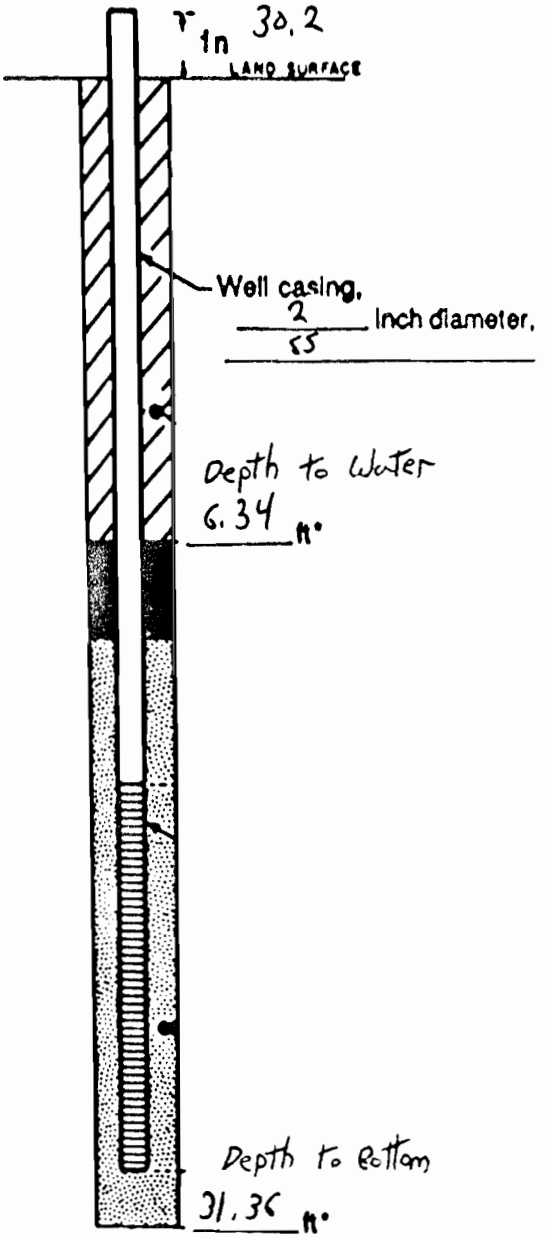
*Depth Below Measuring Poi

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBoye / M. Wood
DATE August 11, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL VBW-7D
LOCATION Oswego Co.



LOCATION MARKED ADEQUATELY
Map location accurate? Y
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside X Inside ____

PROTECTION OF THE WELL
Posts: How many? 1 Type metal road marker
Visibility: Painted
Flagged

PROTECTIVE CASING
Above ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 30.2 inches

LOCKING CAP
Locked to prevent unauthorized entry? Y
Large gaps? N Fliptop cap? Y
Rust? Y Screw cap? N
Lock cut? Y Lock replaced? Y

SURFACE SEAL
Differential erosion around and under base?
Cracks? Concrete Heaved
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
Screwed on?
Improved - How? None
Cut?

MEASURING POINT
Marked? Describe: marker

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? N
- Ponded water around well? N

Measuring Point is Top of Well Casing Unless Otherwise Noted.

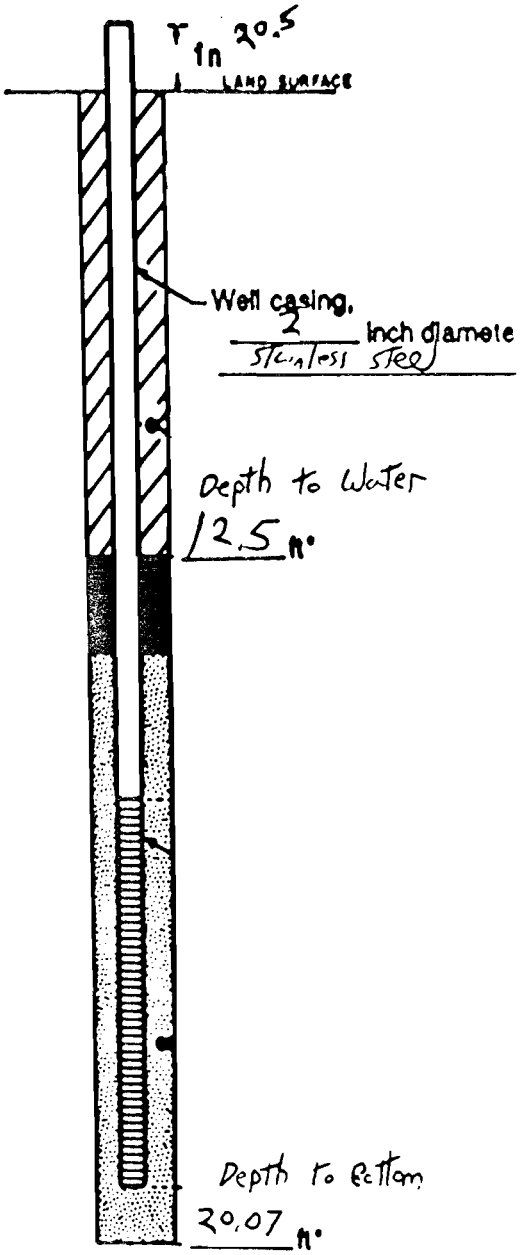
*Depth Below Measuring Poir

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBarge / M. Wood
DATE Aug 19, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL VBW-8S
LOCATION Oswego Co.



LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 0 Type _____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 20.5 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? ~~Yes~~ No Fliptop cap? Yes
Rust? Yes Screw cap? No
Lock cut? Yes Lock replaced? Yes

SURFACE SEAL
Differential erosion around and under base? No
Cracks? No
Slope to prevent ponding in immediate area? No
Broken? No

PVC CAP
Screwed on?
Improved - How?
Cut?

MEASURING POINT
Marked? Describe: marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No

Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Pc

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBarge / M. Wood
DATE Aug 19, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfills
WELL VBW-8D
LOCATION Oswego Co

LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 0 Type _____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 18 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? [illegible] Fliptop cap? Yes
Rust? Yes Screw cap? No
Lock cut? Yes Lock replaced? Yes

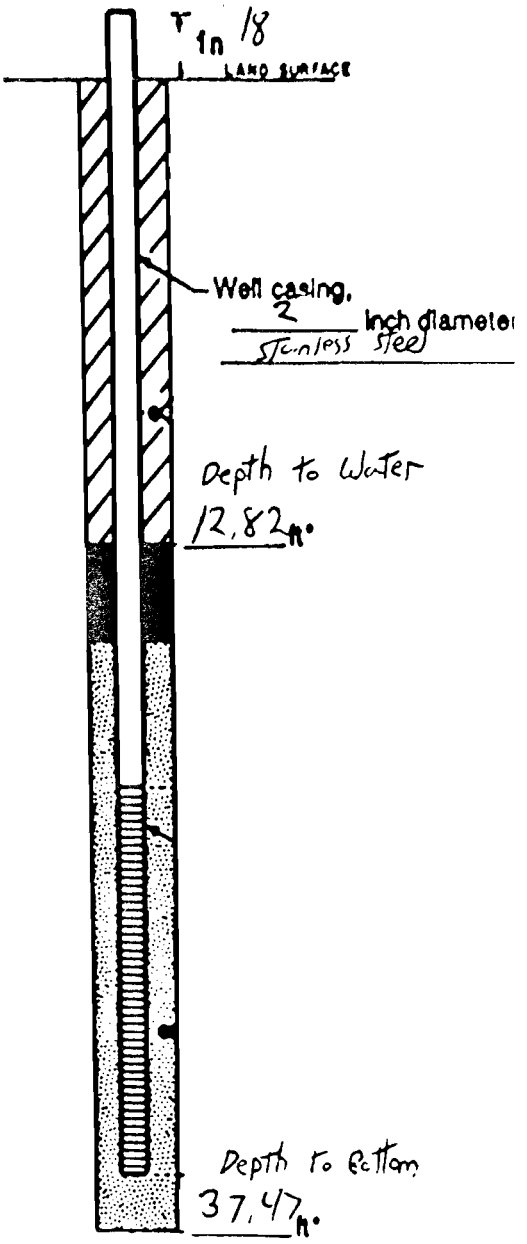
SURFACE SEAL None
Differential erosion around and under base?
Cracks?
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
(Screwed on?
Improved - How?
Cut?

MEASURING POINT
(Marked? Describe: marker - Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Pc

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBorge / M. Wood
DATE Aug 19, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL VBW-8BR
LOCATION Oswego Co.

LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 0 Type _____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 18 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? Yes Fliptop cap? Yes
Rust? Yes Screw cap? No
Lock cut? Yes Lock replaced? Yes

SURFACE SEAL
Differential erosion around and under base? No
Cracks? No
Slope to prevent ponding in immediate area? Yes
Broken? No

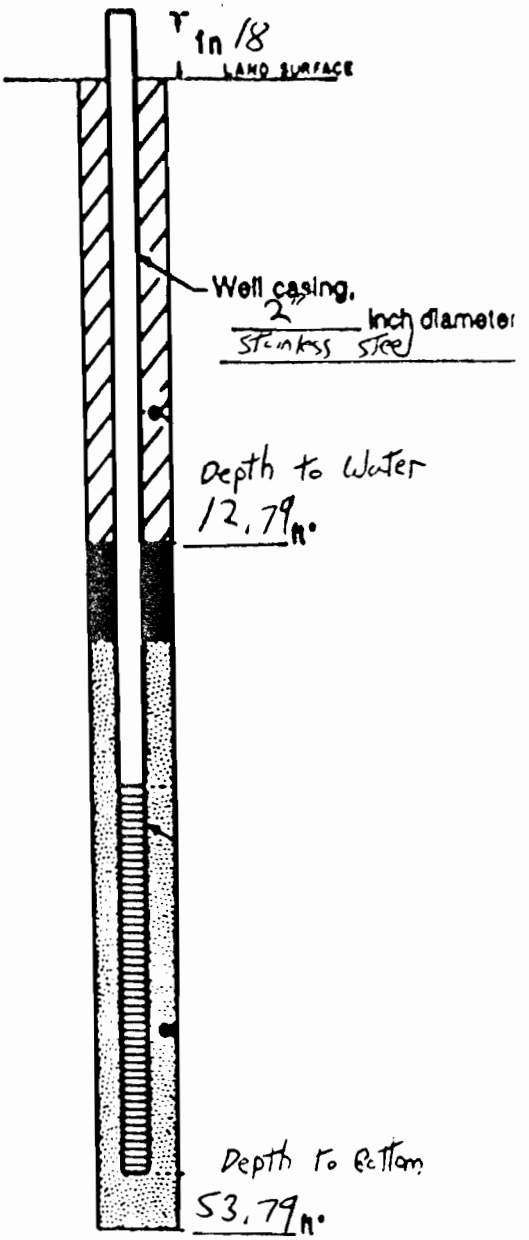
Concrete Heaved

PVC CAP
(Screwed) on?
Improved - How?
Cut?

MEASURING POINT
(Marked)? Describe: marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? Yes
- Ponded water around well? No



clean

Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Po

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBorge / M. Wood
DATE Aug 17, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL VBW-95
LOCATION Oswego Co.

LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas? No

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside No Inside No

PROTECTION OF THE WELL
Posts: How many? 0 Type _____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground [redacted]35.88 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? Yes Screw cap? No
Lock cut? Yes Lock replaced? Yes

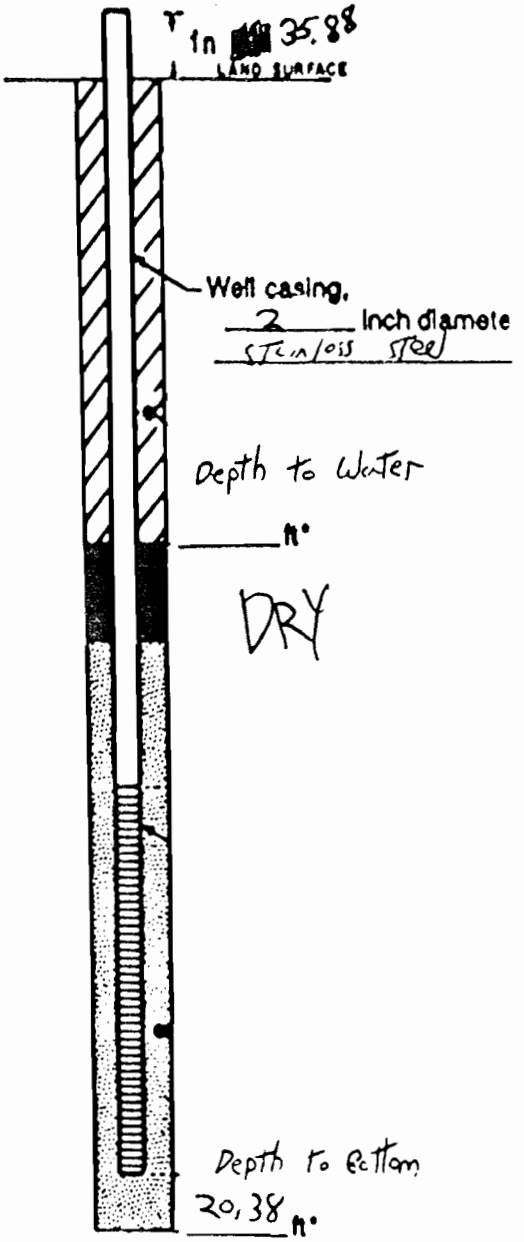
SURFACE SEAL
Differential erosion around and under base? concrete Heaved
Cracks?
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
Screwed on?
Improved - How? None
Cut?

MEASURING POINT
Marked? Describe: marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No



Measuring Point is Top of Well Casing Unless Otherwise Noted.

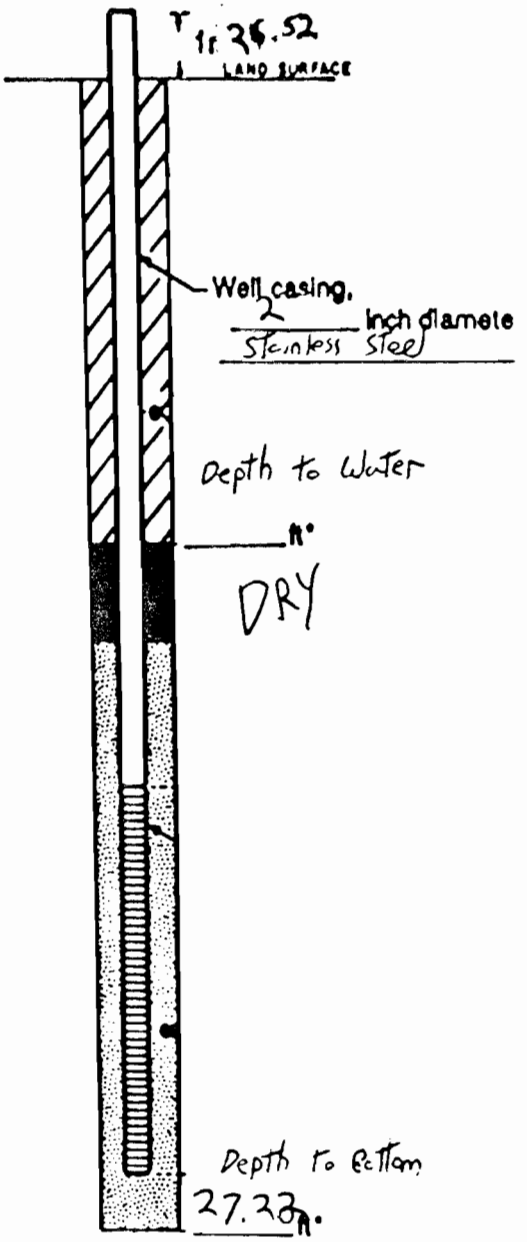
*Depth Below Measuring Pc

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBorge / M. Wood
DATE Aug 19, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL VBW-9D
LOCATION Oswego Co.



LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas? No

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside No Inside No

PROTECTION OF THE WELL
Posts: How many? 0 Type ____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above), below) ground 26.52 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? Yes Screw cap? No
Lock cut? Yes Lock replaced? Yes

SURFACE SEAL
Differential erosion around and under base?
X Cracks? Heaved
Slope to prevent ponding in immediate area?
X Broken?

PVC CAP
(Screwed on?
Improved - How?
Cut?

MEASURING POINT
(Marked)? Describe: marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No

Measuring Point is Top of Well Casing Unless Otherwise Noted.

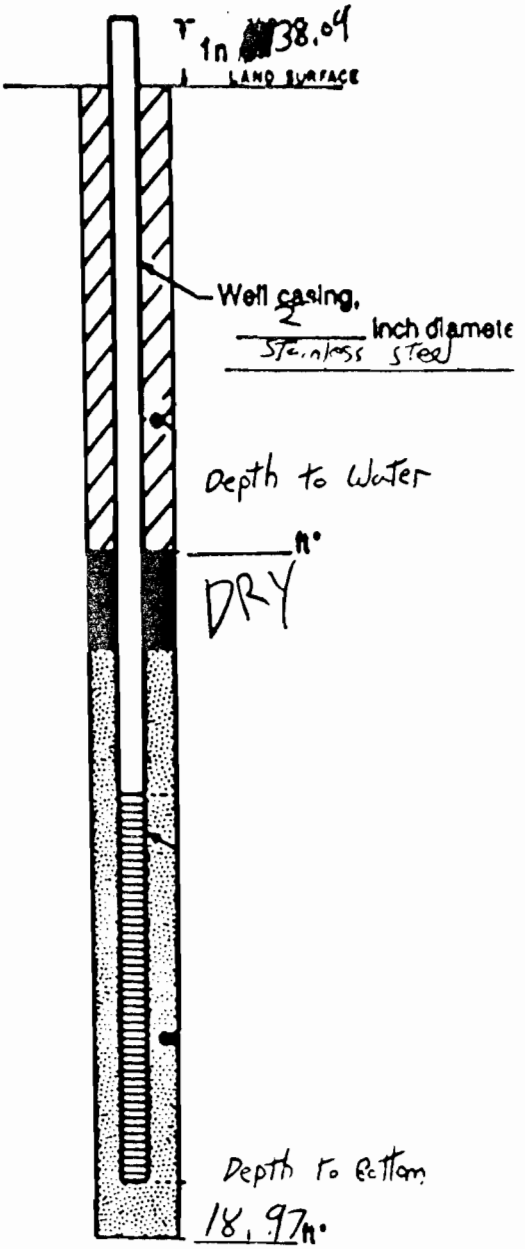
*Depth Below Measuring Pc

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBorge / M. Wood
DATE Aug 19, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL VBW-105
LOCATION Oswego Co.



LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas? No

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside No Inside No

PROTECTION OF THE WELL
Posts: How many? 0 Type _____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground [redacted] 38.04 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? Yes Fliptop cap? Yes
Rust? Yes Screw cap? No
Lock cut? Yes Lock replaced? Yes

SURFACE SEAL
No Differential erosion around and under base?
No Cracks?
No Slope to prevent ponding in immediate area?
Yes Broken?

PVC CAP
(Screwed) on?
Improved - How?
Cut?

MEASURING POINT
(Marked)? Describe: marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch?
- Ponded water around well?

Measuring Point is Top of Well Casing Unless Otherwise Noted.

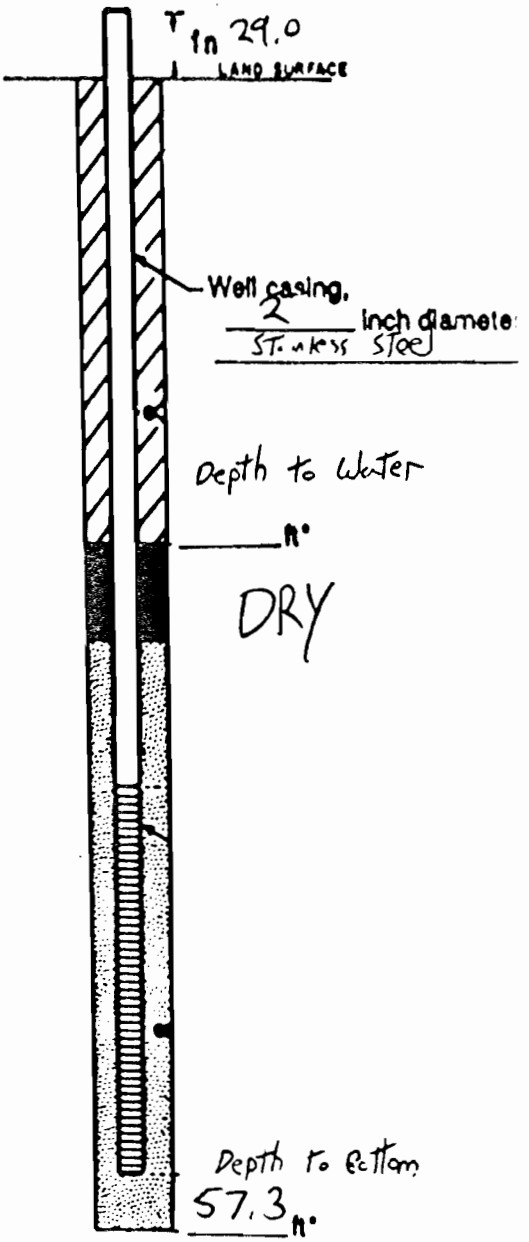
*Depth Below Measuring P

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBorge / M. Wood
DATE Aug 11, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL VBW-10D
LOCATION Oswego Co.



LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas? No

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 0 Type _____
Visibility: Painted
Flagged

PROTECTIVE CASING
Above ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 29.0 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? Yes Screw cap? No
Lock cut? Yes Lock replaced? Yes

SURFACE SEAL
Yes Differential erosion around and under base?
Yes Cracks?
No Slope to prevent ponding in immediate area?
Yes Broken?

PVC CAP
Screwed on?
Improved - How?
Cut?

MEASURING POINT
Marked? Describe: marlo / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Not Secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No

Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

*Depth Below Measuring Pc

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBorge / M. Wood
DATE August 19, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL VOLW-10BR
LOCATION Oswego Co

LOCATION MARKED ADEQUATELY
Map location accurate? Y
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside X Inside

PROTECTION OF THE WELL
Posts: How many? 0 Type
Visibility: Painted
Flagged

PROTECTIVE CASING
Above ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 33 inches

LOCKING CAP
Locked to prevent unauthorized entry? Y
Large gaps? Y Fliptop cap? Y
Rust? some Screw cap? N
Lock cut? Y Lock replaced? Y

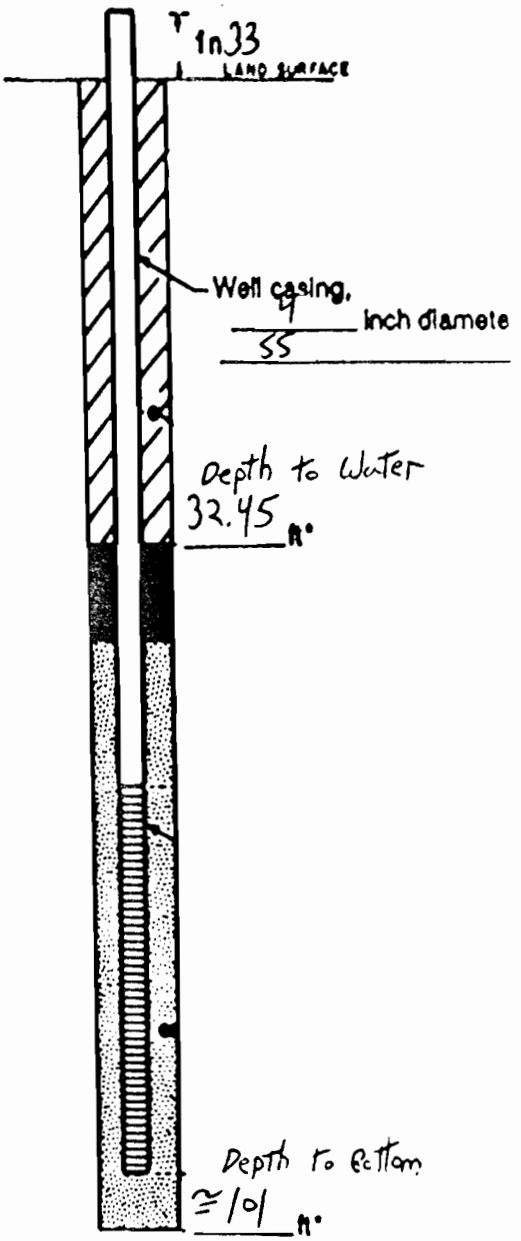
SURFACE SEAL
Differential erosion around and under base? Y
Cracks? Y
Slope to prevent ponding in immediate area? -
Broken? Y

PVC CAP
Screwed on?
Improved - How?
Cut?

MEASURING POINT
Marked? Describe: marker Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? N
- Ponded water around well? N



Measuring Point is Top of Well Casing Unless Otherwise Noted.

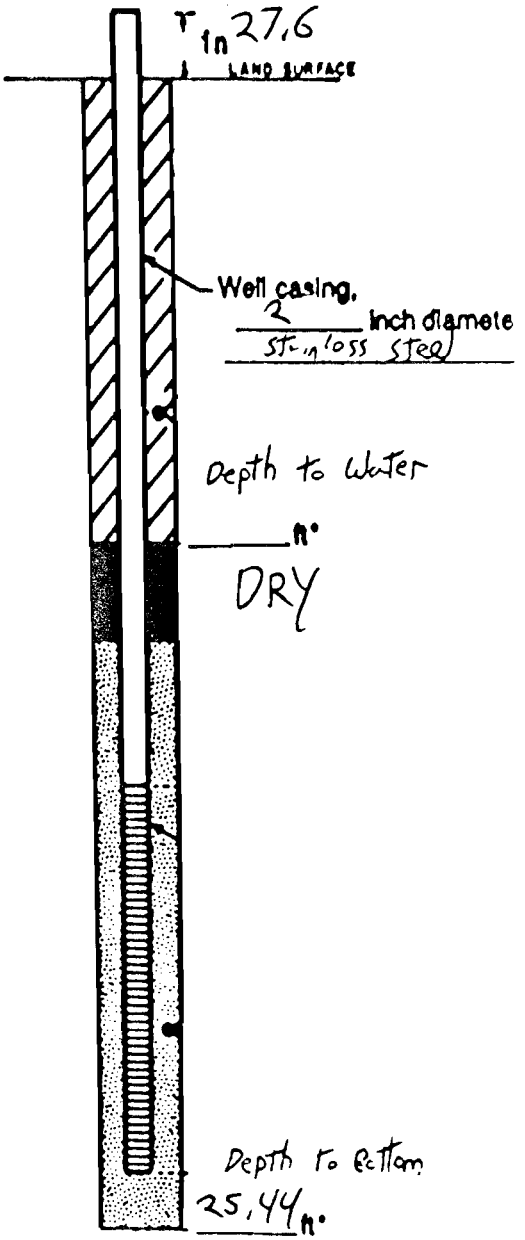
*Depth Below Measuring P

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBorge / M. Wood
DATE Aug 19, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL VOW-11
LOCATION oswego Co.



LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 0 Type
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 27.6 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? Yes Screw cap? No
Lock cut? Yes Lock replaced? Yes

SURFACE SEAL
Differential erosion around and under base?
Cracks? Heaved
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
(Screwed) on?
Improved - How?
Cut?

MEASURING POINT
(Marked)? Describe: marker / Top of pvc

LOOSE CASING
Shake well on two different axes.
Comments: secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No

Measuring Point is Top of Well Casing Unless Otherwise Noted.

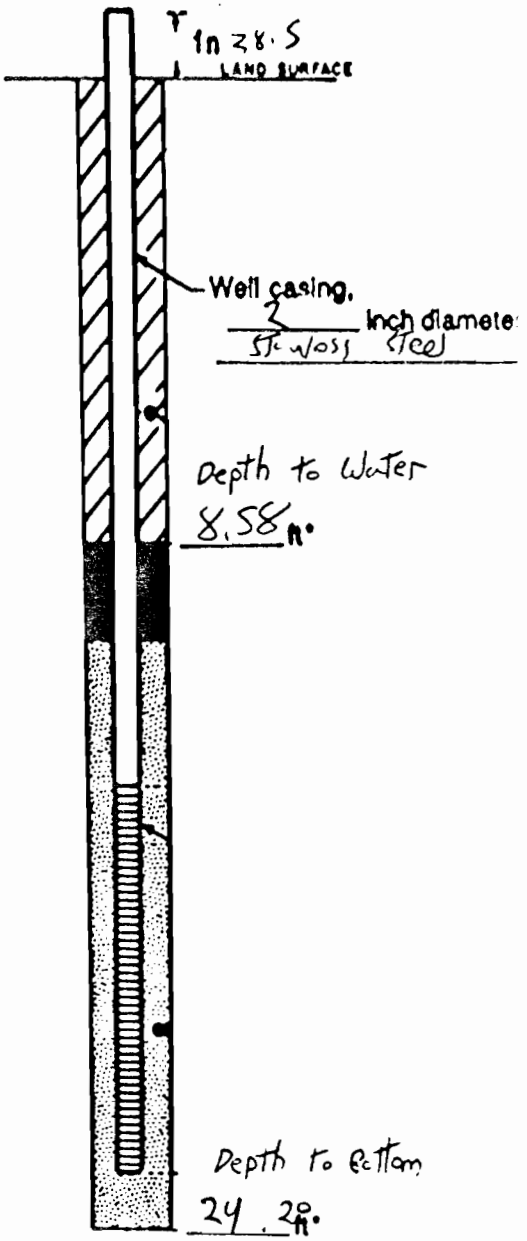
*Depth Below Measuring P

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBoge / M. Wood
DATE Aug 19, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL VBW-12
LOCATION Oswego Co



LOCATION MARKED ADEQUATELY
Map location accurate? Y
Adequately flagged in hard to find areas? N

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Y Inside N

PROTECTION OF THE WELL
Posts: How many? 0 Type _____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 28.5 inches

LOCKING CAP
Locked to prevent unauthorized entry? Y
Large gaps? N Fliptop cap? Y
Rust? Y Screw cap? N
Lock cut? Y Lock replaced? Y

SURFACE SEAL
N Differential erosion around and under base?
N Cracks?
Y Slope to prevent ponding in immediate area?
N Broken?

PVC CAP
(Screwed) on?
Improved - How?
Cut?

MEASURING POINT
(Marked)? Describe: meter / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? Nb
- Ponded water around well? Nb

Measuring Point is Top of Well Casing Unless Otherwise Noted.

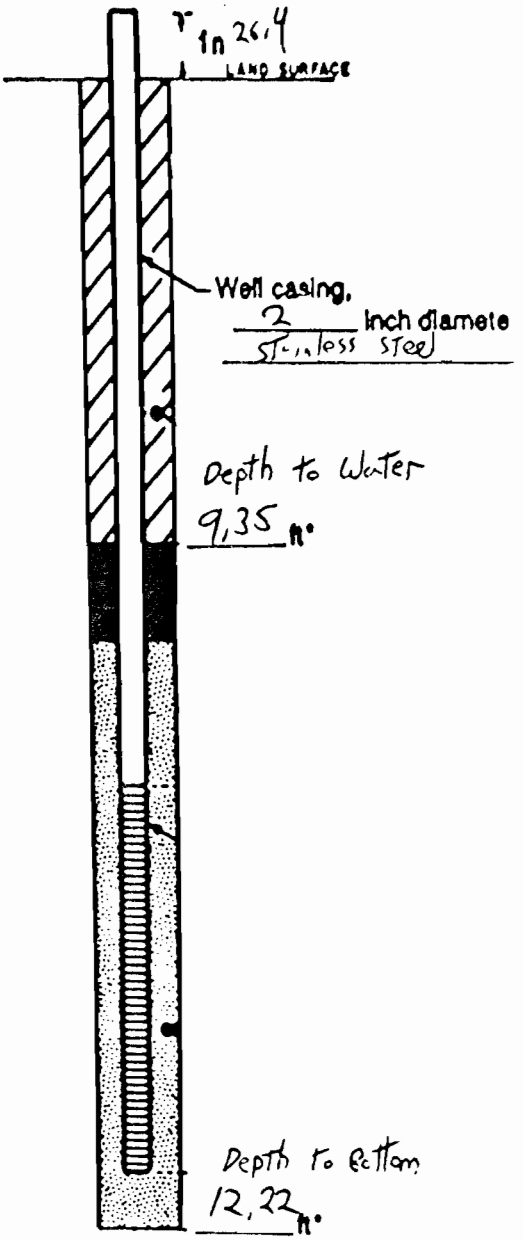
*Depth Below Measuring P

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBorge / M. Wood
DATE Aug 19, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL VBW-13
LOCATION Oswego Co.



LOCATION MARKED ADEQUATELY
Map location accurate? Yes
Adequately flagged in hard to find areas? No

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside Yes Inside No

PROTECTION OF THE WELL
Posts: How many? 0 Type ____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 26.4 inches

LOCKING CAP
Locked to prevent unauthorized entry? Yes
Large gaps? No Fliptop cap? Yes
Rust? Yes Screw cap? No
Lock cut? Yes Lock replaced? Yes

SURFACE SEAL
Differential erosion around and under base? Heaved
Cracks?
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
(Screwed) on?
Improved - How?
Cut?

MEASURING POINT
Marked? Describe: marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: secure

AREA
Topography - In or near a low point or ditch? No
- Ponded water around well? No

Measuring Point is Top of Well Casing Unless Otherwise Noted.

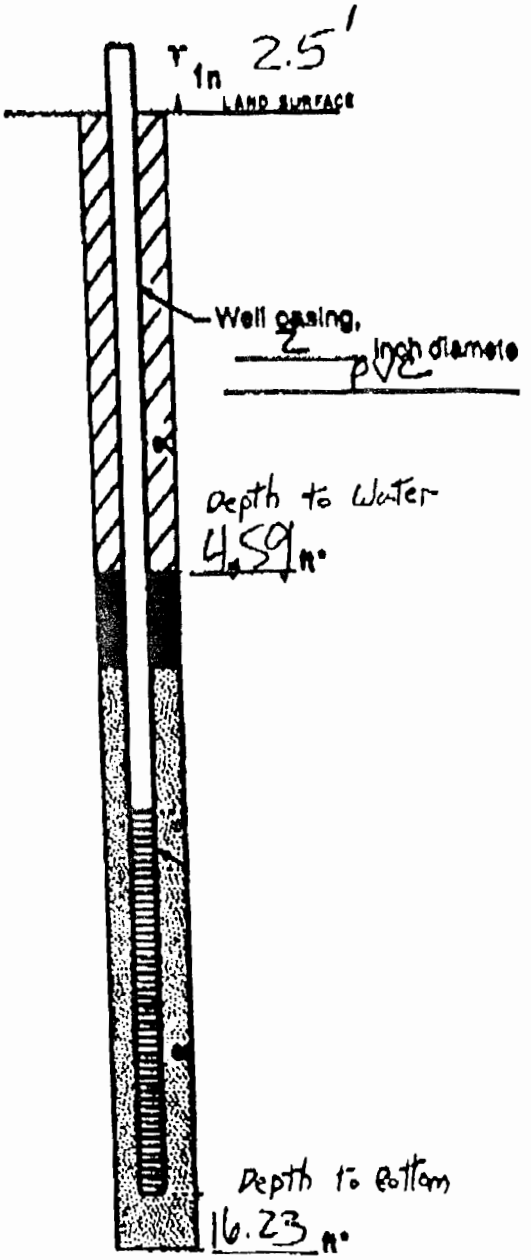
*Depth Below Measuring Pc

& MILLER, INC.
Environmental Services

PERFORMED BY AJZ
DATE 12/16/93

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney
WELL VBW-14
LOCATION



LOCATION MARKED ADEQUATELY
Map location accurate? Y
Adequately flagged in hard to find areas? Y

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside N2 Inside NO

PROTECTION OF THE WELL
Posts: How many? 2 Type Wood + Steel
Visibility: Painted
Flagged

PROTECTIVE CASING
Above ground or flush with surface? (circle one)
Concrete cap? Y
Protective casing height (above, below) ground 2.5 ft ~~inches~~

LOCKING CAP
Locked to prevent unauthorized entry? Y
Large gaps? N Fliptop cap? N
Rust? N Screw cap? Y
Lock cut? N Lock replaced? N

SURFACE SEAL
Differential erosion around and under base? N
Cracks? N
Slope to prevent ponding in immediate area? N
Broken? Heaved

PVC CAP
Screwed on? Y
Improved - How? N
Cut? N

MEASURING POINT
Marked? Describe: Top of PVC Riser

LOOSE CASING
Shake well on two different axes. Sturdy
Comments:

AREA
Topography - In or near a low point or ditch?
- Ponded water around well?

Ht 6.10
Wet 1.51
TD = 16.23

Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Po

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBorge / M. Wood
DATE August 19, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Valley Landfill
WELL VOW-15
LOCATION Oswego Co

LOCATION MARKED ADEQUATELY
Map location accurate? Y
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside L Inside ____

PROTECTION OF THE WELL
Posts: How many? 0 Type ____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 31.2 inches

LOCKING CAP
Locked to prevent unauthorized entry? Y
Large gaps? N Fliptop cap? Y
Rust? Y Screw cap? N
Lock cut? Y Lock replaced? Y

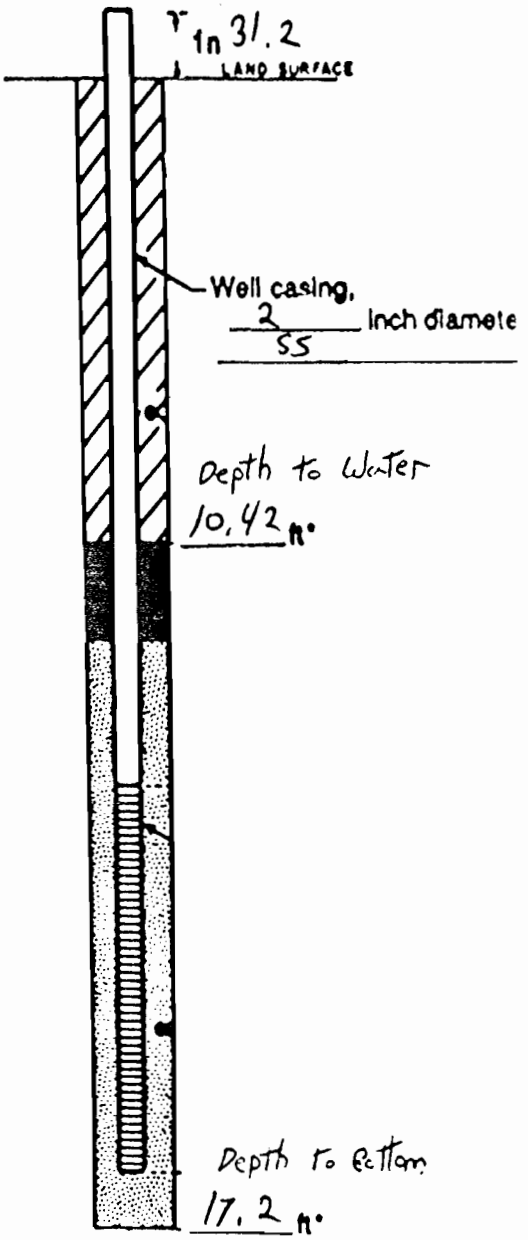
SURFACE SEAL
Differential erosion around and under base? Heaved
Cracks?
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
(Screwed) on?
Improved - How?
Cut?

MEASURING POINT
Marked? Describe: marker Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? N
- Ponded water around well? N



Measuring Point is Top of Well Casing Unless Otherwise Noted.

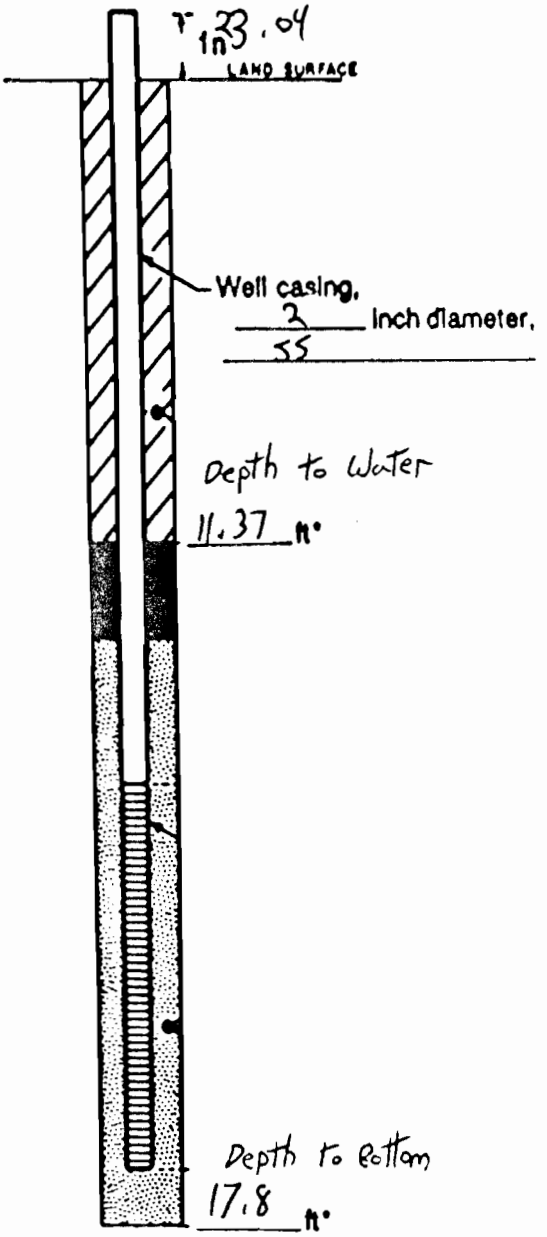
*Depth Below Measuring P

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBonge / M. Wood
DATE August 19, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL VBW-17
LOCATION Oswego Co.



LOCATION MARKED ADEQUATELY
Map location accurate? Y
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside X Inside ____

PROTECTION OF THE WELL
Posts: How many? 0 Type ____
Visibility: Painted
Flagged

PROTECTIVE CASING
(Above) ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 23.04 inches

LOCKING CAP
Locked to prevent unauthorized entry? Y
Large gaps? N Fliptop cap? Y
Rust? Screw cap? N
Lock cut? Lock replaced? Y

SURFACE SEAL
Differential erosion around and under base?
Cracks? None
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
(Screwed) on?
Improved - How?
Cut?

MEASURING POINT
Marked? Describe: marker Top of pvc

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? N
- Ponded water around well? N

Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Poir

GERAGHTY & MILLER, INC.
Environmental Services

PERFORMED BY A. LaBarge / M. Wood
DATE August 19, 1993

MONITORING WELL INTEGRITY FIELD SURVEY

SITE Volney Landfill
WELL MW-17A
LOCATION Oswego 6

LOCATION MARKED ADEQUATELY
Map location accurate? Y
Adequately flagged in hard to find areas?

PROPERLY LABELED FOR QUICK IDENTIFICATION
Outside X Inside ____

PROTECTION OF THE WELL
Posts: How many? 0 Type ____
Visibility: Painted
Flagged

PROTECTIVE CASING
Above ground or flush with surface? (circle one)
Concrete cap?
Protective casing height (above, below) ground 28.44 inches

LOCKING CAP
Locked to prevent unauthorized entry? Y
Large gaps? N Fliptop cap? Y
Rust? Y Screw cap? N
Lock cut? Y Lock replaced? Y

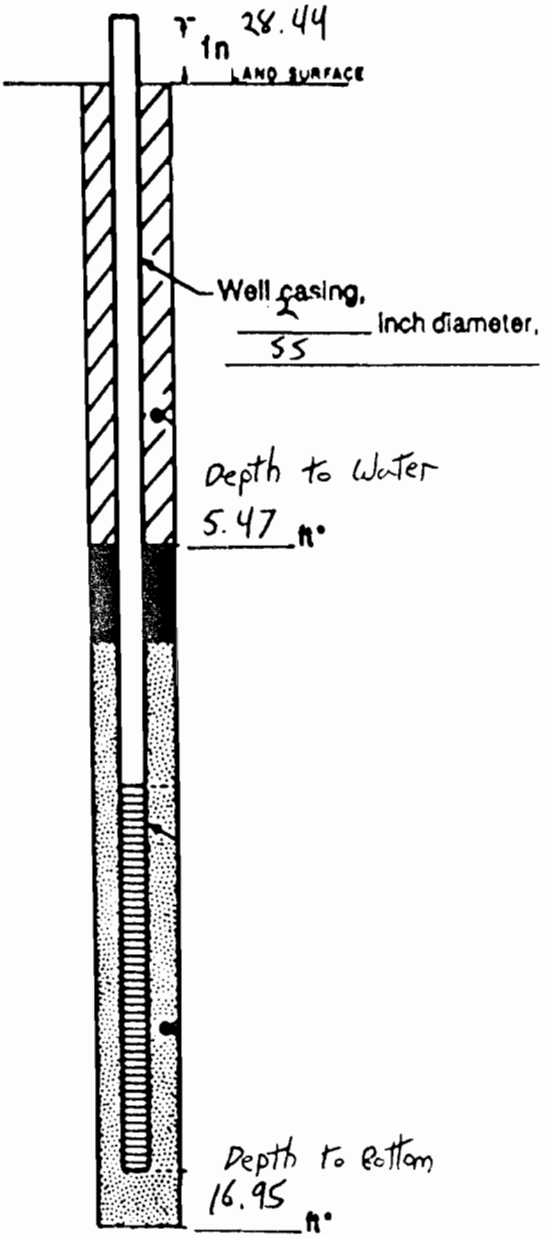
SURFACE SEAL
Differential erosion around and under base? None
Cracks?
Slope to prevent ponding in immediate area?
Broken?

PVC CAP
Screwed on?
Improved - How?
Cut?

MEASURING POINT
Marked? Describe: marker / Top of PVC

LOOSE CASING
Shake well on two different axes.
Comments: Secure

AREA
Topography - In or near a low point or ditch? N
- Ponded water around well? N



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Measuring Poi

APPENDIX C

WELL CONSTRUCTION LOGS

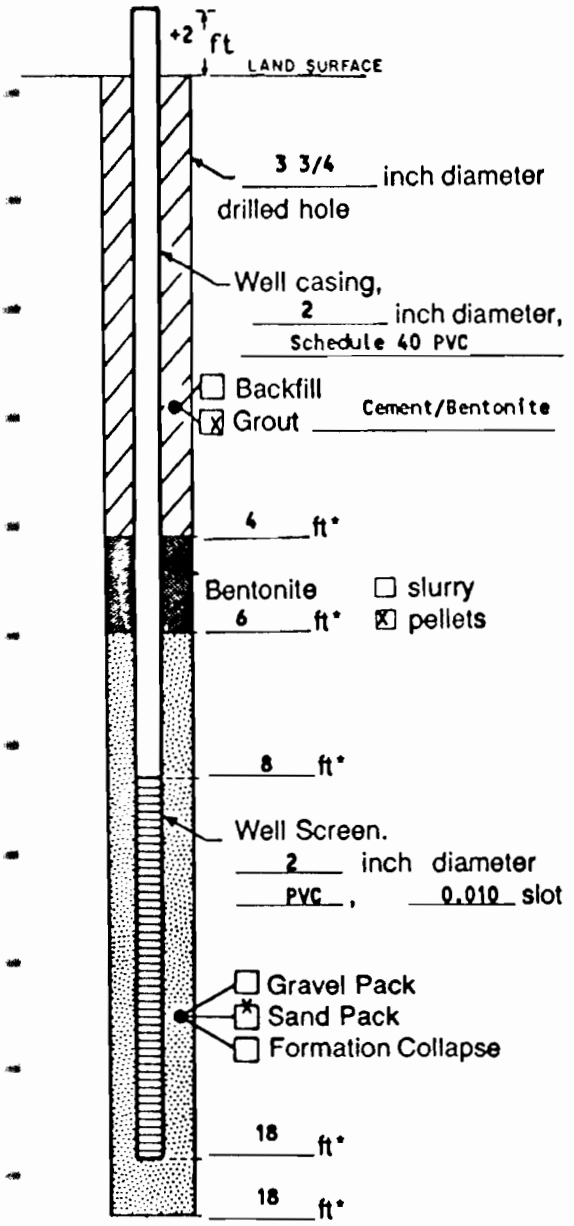
APPENDIX C

WELL CONSTRUCTION LOGS

GW-SERIES

GERAGHTY & MILLER, INC.
Environmental Services

WELL CONSTRUCTION LOG
(UNCONSOLIDATED)



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

*Depth Below Land Surface

Project AY06101 Well GW-6R

Town/City Volney

County Oswego State New York

Permit No. _____

Land-Surface Elevation

and Datum _____ feet ☐ Surveyed

_____ ☐ Estimated

Installation Date(s) 2-4-92

Drilling Method Hollow-Stem Auger

Drilling Contractor Parratt Wolff

Drilling Fluid None

Development Technique(s) and Date(s)

Fluid Loss During Drilling None gallons

Water Removed During Development _____ gallons

Static Depth to Water _____ feet below M.P.

Pumping Depth to Water _____ feet below M.P.

Pumping Duration _____ hours

Yield _____ gpm Date _____

Specific Capacity _____ gpm/ft

Well Purpose Ground-Water Monitoring Well

Remarks Depth to Water at approximately 8 feet

Prepared by A. LaBarge

parratt wolff inc

TEST BORING LOG

FISHER ROAD
EAST SYRACUSE, N.Y. 13057

PROJECT Oswego Valley Landfill
LOCATION Volney, New York

HOLE NO. CW-7R
SURF. EL.
JOB NO. 85125

DATE STARTED 7/17/85 DATE COMPLETED 7/17/85

GROUND WATER DEPTH
WHILE DRILLING Dry
BEFORE CASING REMOVED Dry
AFTER CASING REMOVED Dry

N NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" — ASTM D-1586, STANDARD PENETRATION TEST

C - NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING "/OR — % CORE RECOVERY

CASING TYPE - HOLLOW STEM AUGER

SHEET 1 OF 1

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Well dry at -10.2', moved ahead 5.0', drilled to -15.0' without sampling	
5.0							
10.0							
							12.0'
15.0	15.0'-15.5'	1		80		Brown dry to moist very dense fine to coarse SAND, little silt, little fine gravel	
							18.0'
20.0	20.0'-20.5'	2		109		Red-brown dry very dense fine to coarse SAND and fine to coarse GRAVEL, little silt	
						Bottom of Boring	20.5'
25.0						Note: Installed 2" P.V.C. screen -20.0' to -5.0', riser to +3.0' with locking cover.	

parratt wolff inc

TEST BORING LOG

FISHER ROAD
EAST SYRACUSE, N.Y 13057

PROJECT Oswego Valley Landfill
LOCATION Volney, New York

HOLE NO. CW-8R
SURF. EL.
JOB NO. 85125

DATE STARTED 7/16/85 DATE COMPLETED 7/16/85

GROUND WATER DEPTH
WHILE DRILLING 36.5'
BEFORE CASING REMOVED 36.5'
AFTER CASING REMOVED 33.7'

N NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" — ASTM D-1586, STANDARD PENETRATION TEST

C - NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING
"/OR — % CORE RECOVERY

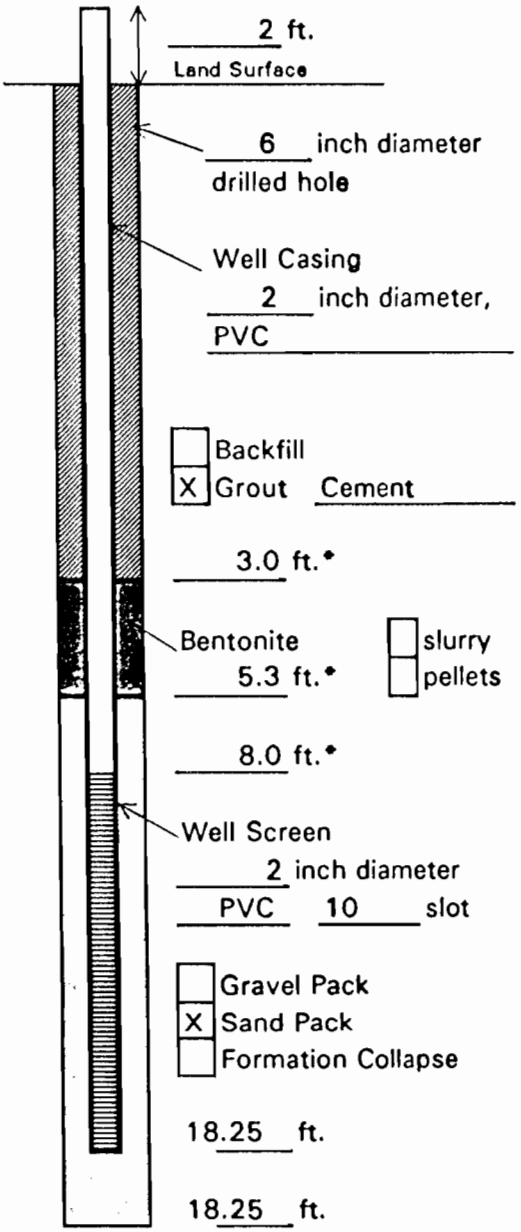
CASING TYPE - HOLLOW STEM AUGER

SHEET 1 OF 1

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown dry to moist fine to coarse GRAVEL, some fine to coarse sand, trace silt, trace cobbles	
							4.5'
5.0	5.0'-6.5'	1		5/4 4	8	Brown dry to moist loose coarse to fine SAND, some fine gravel, trace silt	
10.0	10.0'-11.5'	2		2/3 6	9	Brown dry loose coarse to fine SAND	10.0'
							13.5'
15.0	15.0'-16.5'	3		20/31 49	80	Brown dry very dense coarse to fine GRAVEL and coarse to fine SAND, trace silt, trace boulders	
20.0	20.0'-21.5'	4		36/36 28	64		
							23.0'
25.0	25.0'-26.5'	5		13/15 23	38	Brown moist dense fine SAND, little silt Note: Installed 2" P.V.C. screen -36.0' to -26.0', riser to +3.0' with locking cover.	
30.0	30.0'-31.5'	6		11/14 20	34	Brown wet dense fine SAND	30.5'
35.0	35.0'-36.5'	7		10/10 12	22	Brown wet medium dense fine SAND, little silt, trace fine gravel	35.0'
WL ▼						Bottom of Boring	36.5'

WELL CONSTRUCTION LOG

(UNCONSOLIDATED)



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

* Depth Below Land Surface

Project Oswego County - Volney Landfill Well GW-18R

Town/City Volney

County Oswego State New York

Permit No.

Land-Surface Elevation and Datum _____ feet ☐ Surveyed ☐ Estimated

Installation Date(s) 4/30/90

Drilling Method Auger

Drilling Contractor Parratt-Wolff

Drilling Fluid

Development Technique(s) and Date(s)

50 gallons of water to wash hole to set casing

Fluid Loss During Drilling _____ gallons

Water Removed During Development _____ gallons

Static Depth to Water _____ feet below M.P.

Pumping Depth to Water _____ feet below M.P.

Pumping Duration _____ hours

Yield _____ gpm Date _____

Specific Capacity _____ gpm/ft.

Well Purpose monitoring

Remarks 3 bags of sand
1 bucket of pellets
3 bags cement with bentonite powder

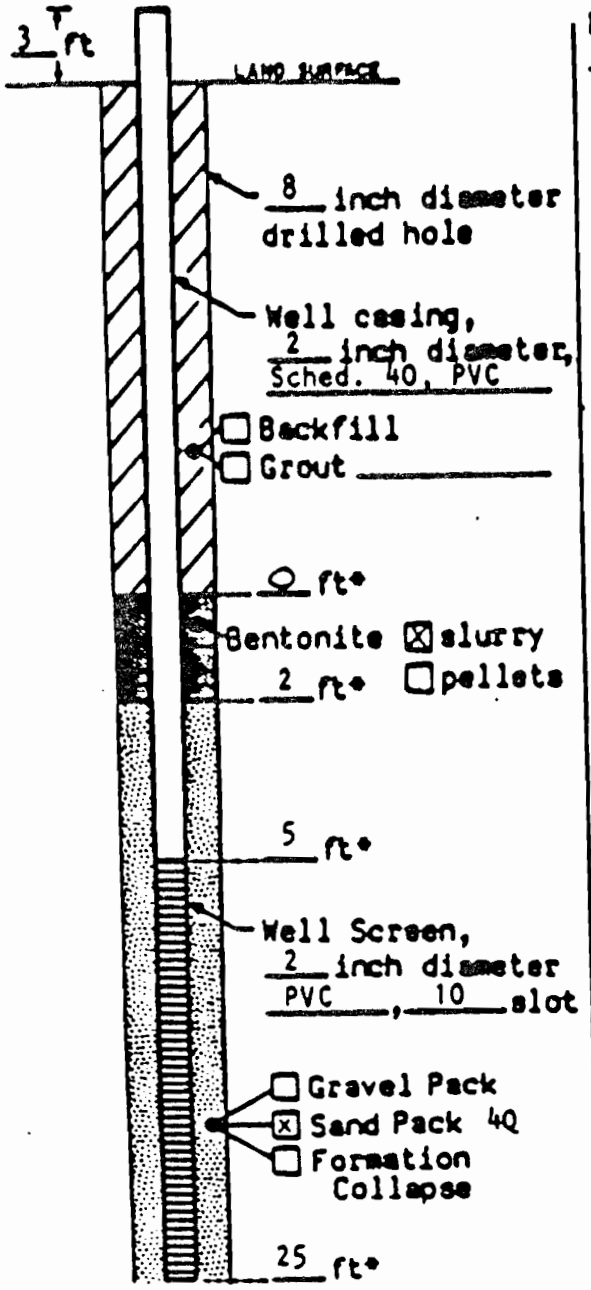
Prepared by M. Ednie

APPENDIX C

WELL CONSTRUCTION LOGS

SGW-SERIES

WELL CONSTRUCTION LOG



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project N77603 Well SGW-26

Town/City Volney

County Oswego State New York

Permit No. _____

Land-Surface Elevation and Datum 467.24 feet ☒ surveyed ☐ estimated

mean sea level

Installation Date(s) 12-4-84

Drilling Method Auger

Drilling Contractor Parrett Wolff

Drilling Fluid None

Development Technique(s) and Date(s) 12-4-84

centrifugal pump and bailing

Fluid Lost During Drilling _____ gallon

Water Removed During Development _____ gallon

Static Depth to Water _____ feet below M.P

Pumping Depth to Water _____ feet below M.P

Pumping Duration _____ hours

Yield _____ gpm Date _____

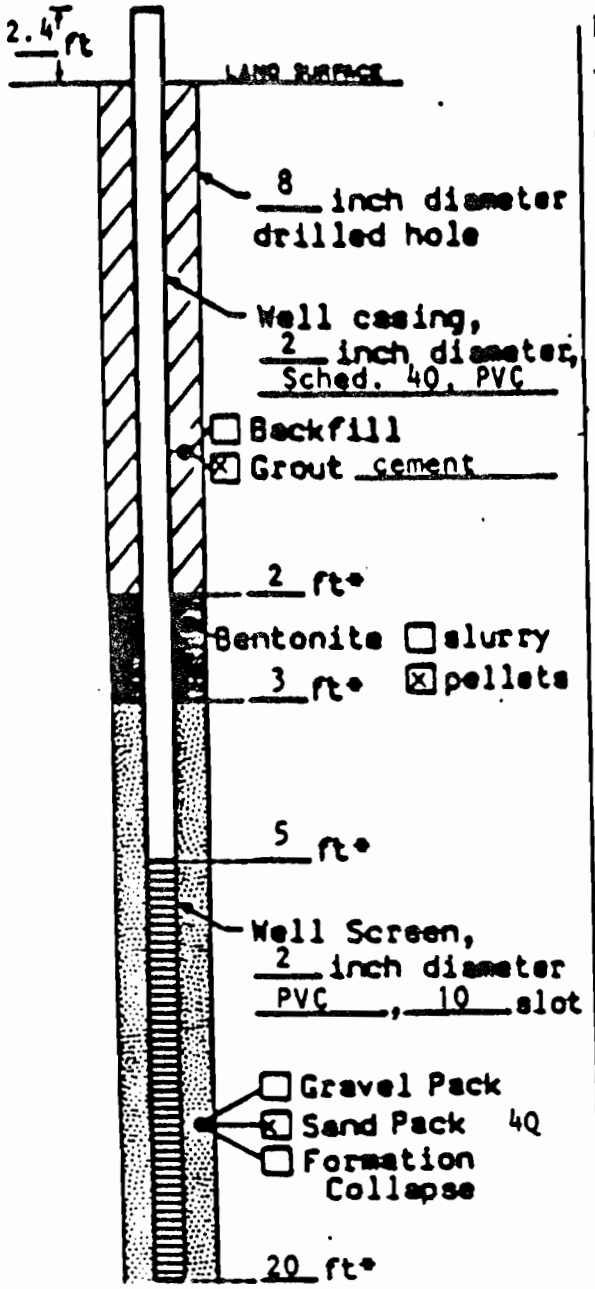
Specific Capacity _____ gpm/ft

Well Purpose _____

Remarks pumped dry twice

Prepared by Joseph T. Gurrieri

WELL CONSTRUCTION LOG



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project N7760C3 Well SGW-27A

Town/City Volney

County Oswego State New York

Permit No.

Land-Surface Elevation and Datum 473.04 feet mean sea level ☒ surveyed ☐ estimated

Installation Date(s) 11-5-84

Drilling Method Auger

Drilling Contractor Parratt Wolff

Drilling Fluid None

Development Technique(s) and Date(s)
12-6-84
centrifugal pump and bailing

Fluid Lost During Drilling _____ gallons

Water Removed During Development _____ gallons

Static Depth to Water _____ feet below M.P

Pumping Depth to Water _____ feet below M.P.

Pumping Duration _____ hours

Yield _____ gpm Date _____

Specific Capacity _____ gpm/ft

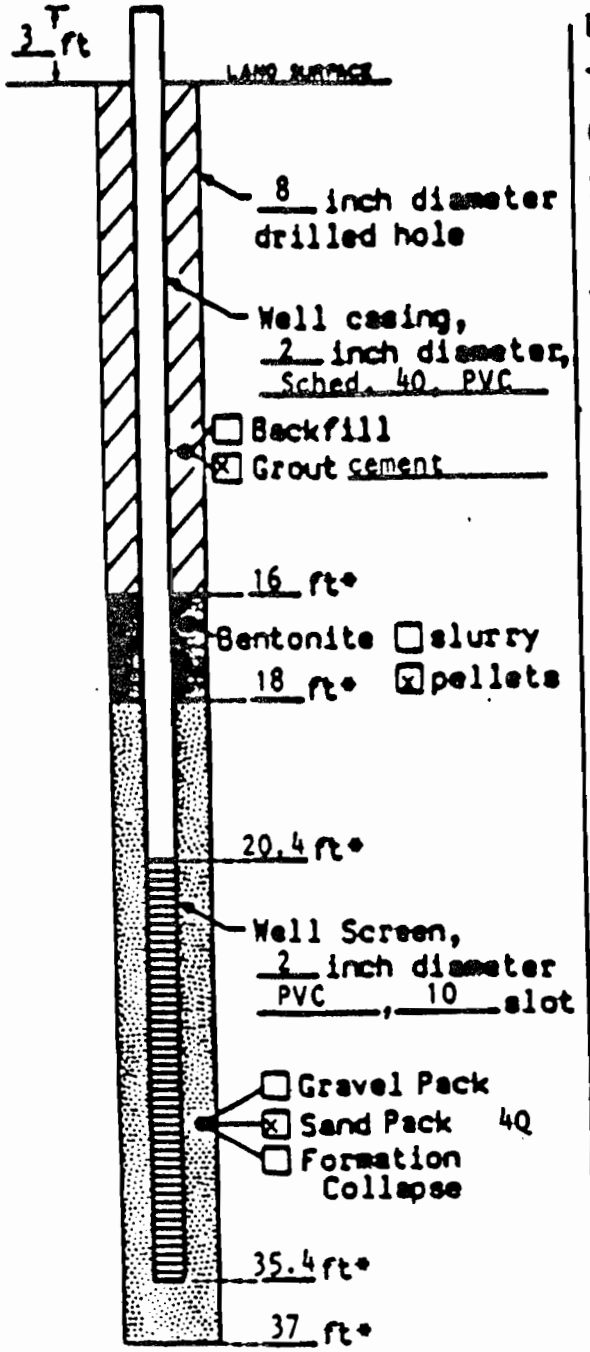
Well Purpose

Remarks water was clear after developing. Well never pumped dry.

Prepared by Joseph T. Gurrieri

Geraghty & Miller, Inc.

WELL CONSTRUCTION LOG



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project N7760C3 Well SGW-27B

Town/City Volney

County Oswego State New York

Permit No.

Land-Surface Elevation and Datum 472.50 feet mean sea level ☒ surveyed ☐ estimated

Installation Date(s) 12-5-84

Drilling Method Auger

Drilling Contractor Parratt Wolff

Drilling Fluid None

Development Technique(s) and Date(s) 12-5-84 centrifugal pump and bailing

Fluid Lost During Drilling _____ gallons

Water Removed During Development _____ gallons

Static Depth to Water _____ feet below M.P.

Pumping Depth to Water _____ feet below M.P.

Pumping Duration _____ hours

Yield _____ gpm Date _____

Specific Capacity _____ gpm/ft

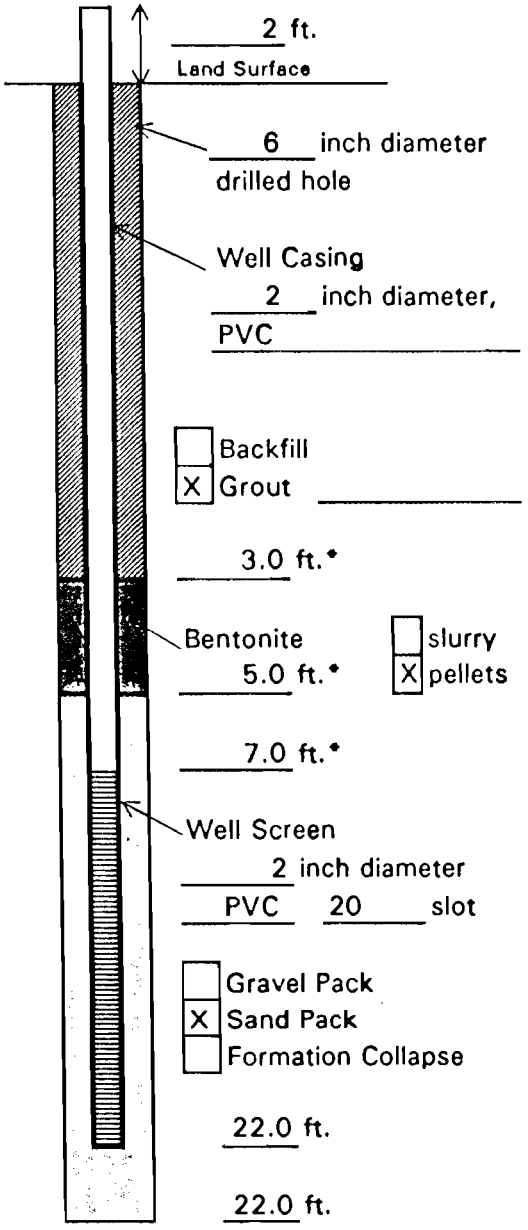
Well Purpose

Remarks water was clear after developing. Well never pumped dry.

Prepared by Joseph T. Gurrieri

WELL CONSTRUCTION LOG

(UNCONSOLIDATED)



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

* Depth Below Land Surface

Project Oswego County - Volney Landfill Well SGW-28R

Town/City Volney

County Oswego State New York

Permit No.

Land-Surface Elevation
and Datum _____ feet ☐ Surveyed ☐ Estimated

Installation Date(s) 4/30/90

Drilling Method Auger

Drilling Contractor Parratt-Wolff

Drilling Fluid

Development Technique(s) and Date(s)
washed hole with ~ 50 gallons to set casing

Fluid Loss During Drilling _____ gallons

Water Removed During Development _____ gallons

Static Depth to Water _____ feet below M.P.

Pumping Depth to Water _____ feet below M.P.

Pumping Duration _____ hours

Yield _____ gpm Date _____

Specific Capacity _____ gpm/ft.

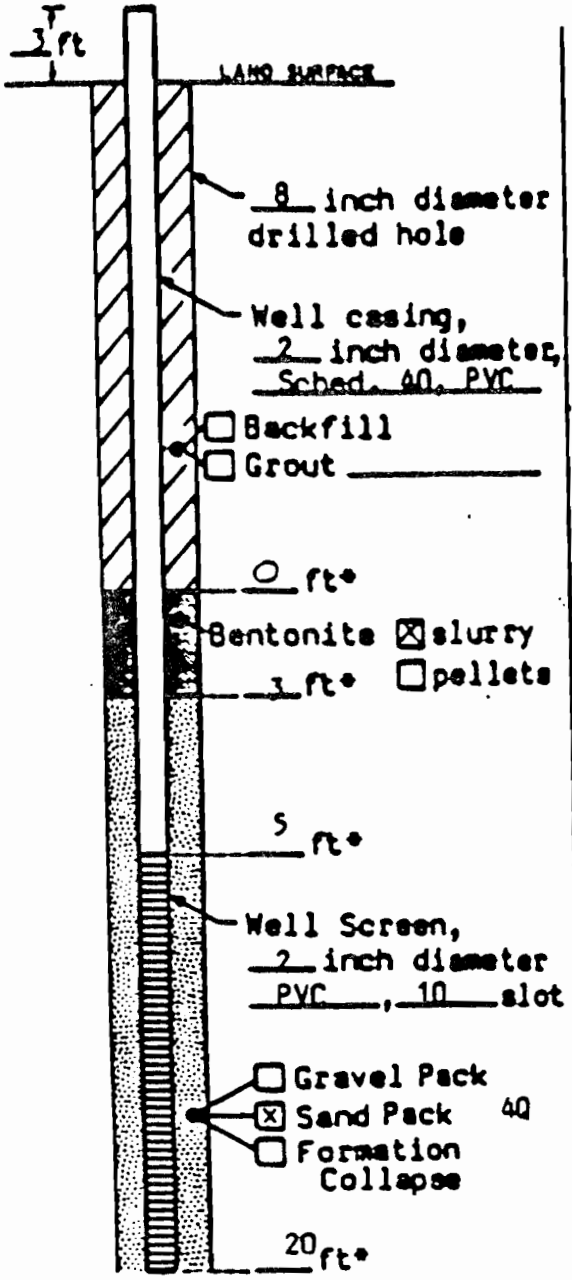
Well Purpose monitoring

Remarks 3 bags of q-rock size 3 sand
1 bucket of pellets
3 bags cement with bentonite grout
used screen from original well

Prepared by M. Ednie

Geraghty & Miller, Inc.

WELL CONSTRUCTION LOG



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project N7760C3 Well SGW-29

Town/City Volney

County Oswego State New York

Permit No. _____

Land-Surface Elevation and Datum 455.42 feet mean sea level ☒ surveyed ☐ estimated

Installation Date(s) 12-7-84

Drilling Method Auger

Drilling Contractor Parratt Wolff

Drilling Fluid None

Development Technique(s) and Date(s)

Fluid Lost During Drilling _____ gallons

Water Removed During Development _____ gallons

Static Depth to Water _____ feet below M.P

Pumping Depth to Water _____ feet below M.P

Pumping Duration _____ hours

Yield _____ gpm Date _____

Specific Capacity _____ gpm/ft

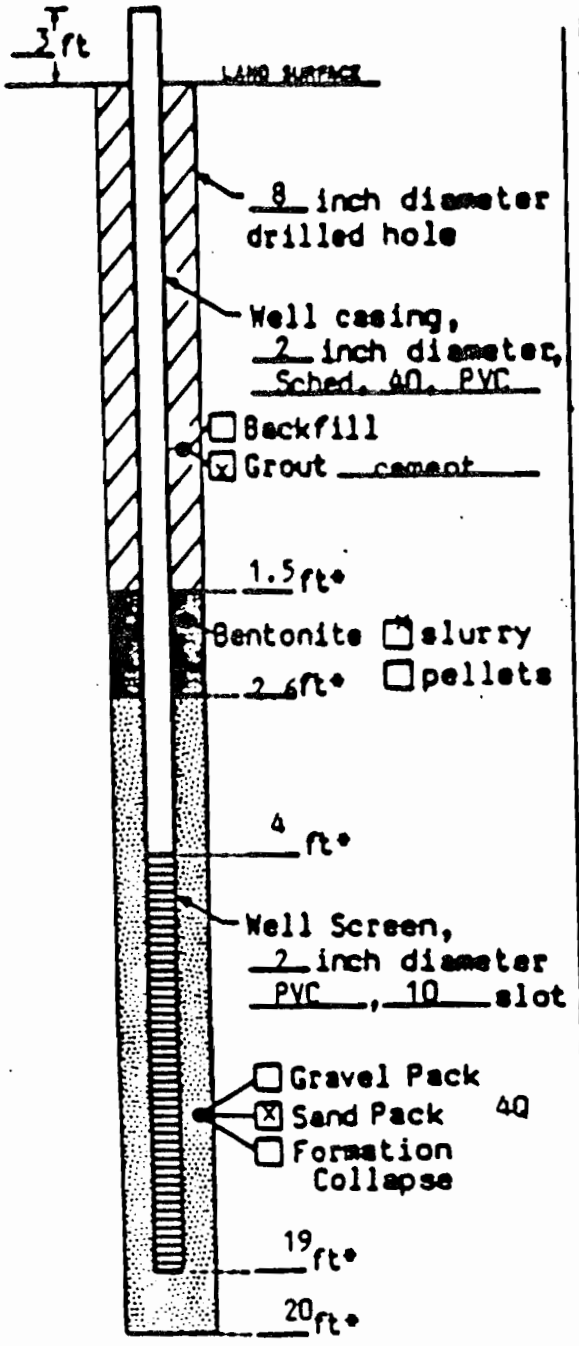
Well Purpose _____

Remarks _____

Prepared by Joseph T. Gurrieri

Geraghty & Miller, Inc.

WELL CONSTRUCTION LOG



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project N7760C3 Well SGW-30A

Town/City Volney

County Oswego State New York

Permit No. _____

Land-Surface Elevation and Datum 454.13 feet mean sea level ☒ surveyed ☐ estimated

Installation Date(s) 12-7-84

Drilling Method Auger

Drilling Contractor Parratt Wolff

Drilling Fluid None

Development Technique(s) and Date(s)

Fluid Lost During Drilling _____ gallo

Water Removed During Development _____ gallo

Static Depth to Water _____ feet below M.

Pumping Depth to Water _____ feet below M.

Pumping Duration _____ hours

Yield _____ gpm Date _____

Specific Capacity _____ gpm/ft

Well Purpose _____

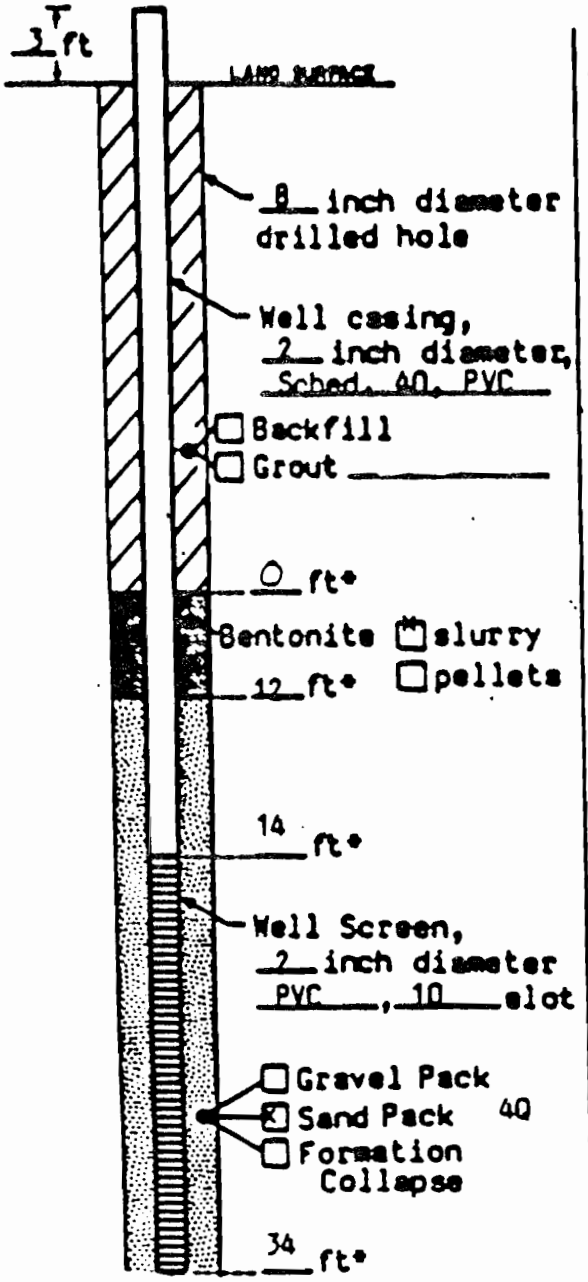
Remarks _____

Joseph T. Gurrieri

Processed by

Geraghty & Miller, Inc.

WELL CONSTRUCTION LOG



Measuring Point is Top of Well Casing Unless Otherwise Noted.

*Depth Below Land Surface

Project N7760C3 Well SGW-308

Town/City Volney

County Oswego State New York

Permit No. _____

Land-Surface Elevation and Datum 453.37 feet mean sea level ☒ surveyed ☐ estimated

Installation Date(s) 12-3-84

Drilling Method Auger

Drilling Contractor Parratt Wolff

Drilling Fluid None

Development Technique(s) and Date(s) 12-4-84

centrifugal pump and bailing

Fluid Lost During Drilling _____ gallon

Water Removed During Development _____ gallon

Static Depth to Water _____ feet below M.P

Pumping Depth to Water _____ feet below M.P

Pumping Duration _____ hours

Yield _____ gpm Date _____

Specific Capacity _____ gpm/ft

Well Purpose _____

Remarks steady yield during development

Prepared by Joseph T. Gurrieri

parratt wolff inc

TEST BORING LOG

FISHER ROAD
EAST SYRACUSE, N.Y 13057

PROJECT Oswego Valley Landfill
LOCATION Volney, New York

HOLE NO. SCW-33
SURF. EL.
JOB NO. 85125

DATE STARTED 7/17/85 DATE COMPLETED 7/17/85

GROUND WATER DEPTH
WHILE DRILLING 3.0'
BEFORE CASING REMOVED 12.4'
AFTER CASING REMOVED 3.0'

N NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" — ASTM D-1586, STANDARD PENETRATION TEST

C - NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING "/OR — % CORE RECOVERY

CASING TYPE - HOLLOW STEM AUGER

SHEET 1 OF 1

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						TOPSOIL	2.0'
WL ▼						Brown wet SILT, little clay, trace fine to medium sand	4.5'
5.0	5'-5.5'	1A		7/8		Brown wet very stiff SILT, trace fine to medium sand	5.5'
	5.5'-6'	1B		8	16	Brown-black wet medium dense WOOD, trace peat	6.0'
	6'-6.5'	1C				Brown wet medium dense fine to medium SAND, little silt	8.0'
10.0	10.0'-11.5'	2		21/20		Brown moist dense fine to coarse SAND, little silt, little fine gravel	12.0'
				20	40	Brown moist hard SILT and fine to coarse SAND, trace fine to coarse gravel	
15.0	15.0'-16.2'	3		40/35			
				50-.2'		Bottom of Boring	16.2'
20.0						Note: Installed 2" P.V.C. screen -15.0' to -5.0', riser to +3.0' with locking cover.	

parratt wolff inc

TEST BORING LOG

FISHER ROAD
EAST SYRACUSE, N Y 13057

PROJECT Oswego Valley Landfill
LOCATION Volney, New York

HOLE NO. SCW-34
SURF. EL.
JOB NO. 85125

DATE STARTED 7/16/85 DATE COMPLETED 7/17/85

GROUND WATER DEPTH
WHILE DRILLING 5.0'
BEFORE CASING REMOVED 5.2'
AFTER CASING REMOVED At surface

N NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" — ASTM D-1586, STANDARD PENETRATION TEST

C - NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING
"/OR — % CORE RECOVERY

CASING TYPE - HOLLOW STEM AUGER

SHEET 1 OF 1

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						TOPSOIL	1.5'
						Brown wet fine to coarse SAND, little silt, trace fine gravel	4.0'
5.0 ▼ WL	5'-6'	1A		5/22		Brown wet medium dense fine to coarse SAND, some silt, little fine gravel	6.0'
	6.0'-6.5'	1B		43	65	Brown moist very dense fine to coarse SAND, little silt, little fine gravel	
10.0							10.0'
	10.0'-11.0'	2		42/80		Brown-red moist very dense fine to coarse SAND, some fine to coarse gravel, little silt	
15.0							
	15.0'-16.0'	3		53/75			
20.0							
	20.0'-21.0'	4		44/80			
						Bottom of Boring	21.0'
25.0							

Note: Installed 2" P.V.C. screen -20.3' to -5.3', riser to +3.0' with locking cover.
Water depth with casing @ 20.0' for 1 hours - 16.8'; 12 hours - 5.2'.

APPENDIX C

WELL CONSTRUCTION LOGS

VBW-SERIES

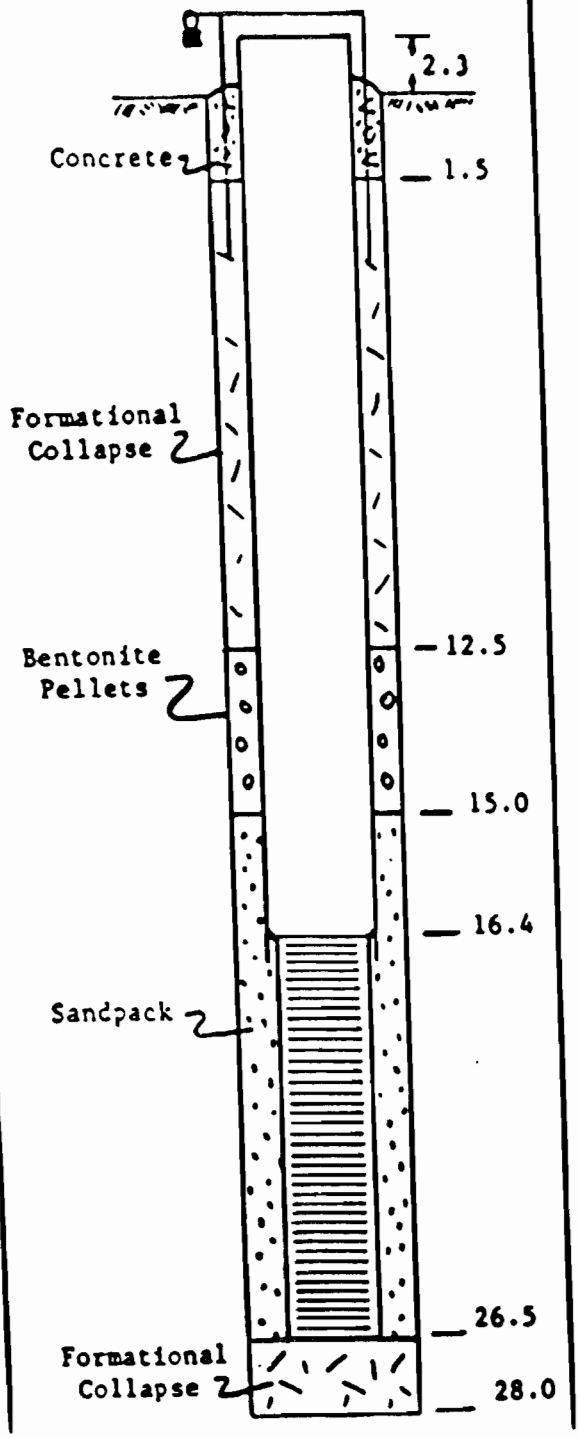
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW-1
Date Drilled: 1/18/86 - 1/19/86
Date Developed: 2/4/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Gordon M. Stevens
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level 20.54 Date 4/1/86
Measuring Point *
Total Depth of Boring 28.0
Well Point Depth

Drill Casing
Type HSA Diameter 4¼" ID
Length Material

Sampling
Type SS Diameter 2"
Weight 140 lbs. Fall 30"
Interval Standard

Pipe Left in Place
Material SS Diameter 2"
Length 30.3 Joint Type Flush

Screen
Material SS Diameter 2"
Slot Size 10 Interval 16.4 - 26.5
Stratigraphic Unit Screened sand & gravel

Packing
Sand 0 grade Gravel Natural
Amount Interval 15.0 - 26.5

Seal
Type Bent. Pellets Interval 12.5 - 15.0

Locking Casing: Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

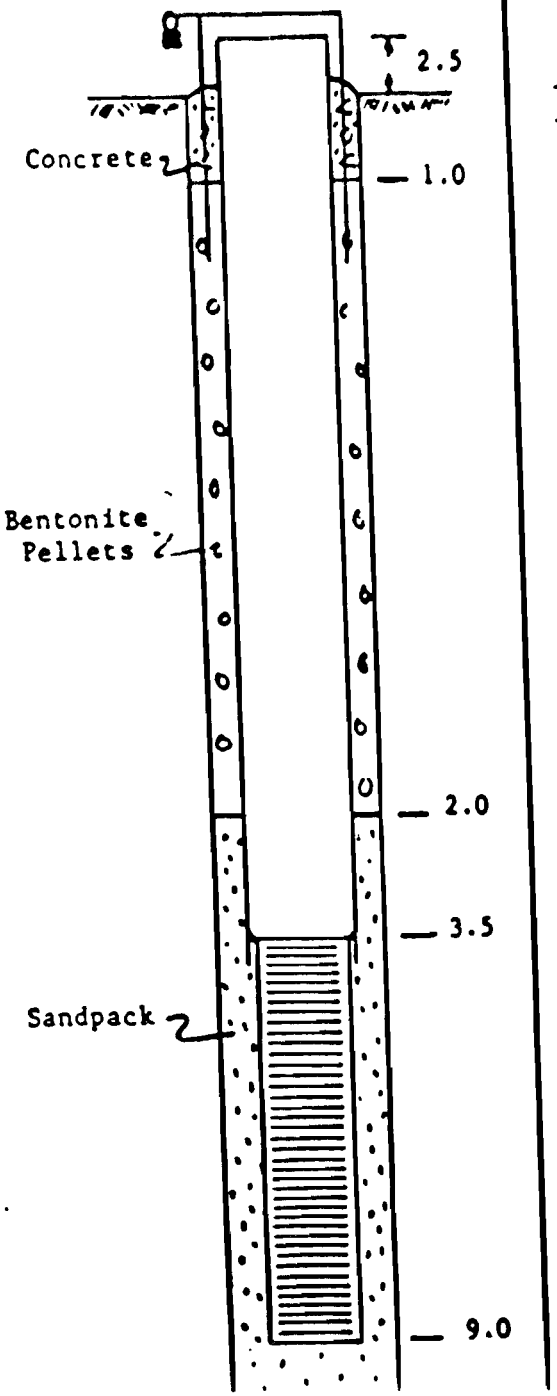
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW-2
Date Drilled: 1/21/86
Date Developed: 2/4/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Rich Amirault
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level: 8.62 Date: 4/1/86
Measuring Point *
Total Depth of Boring: 10.0
Well Point Depth: 3.5

Drill Casing
Type: HSA Diameter: 4¼" ID
Length: Material:

Sampling
Type: SS Diameter: 2"
Weight: 140 lbs. Fall: 30"
Interval: Standard

Pipe Left in Place
Material: SS Diameter: 2"
Length: 11.5 Joint Type: Flush

Screen
Material: SS Diameter: 2"
Slot Size: 10 Interval: 3.5 - 9.0
Stratigraphic Unit Screened: Fill

Packing
Sand: 0 grade Gravel: Natural:
Amount: Interval: 2.0 - 10.0

Seal
Type: Bent. Pellets Interval: 1.0 - 2.0

Locking Casing: Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

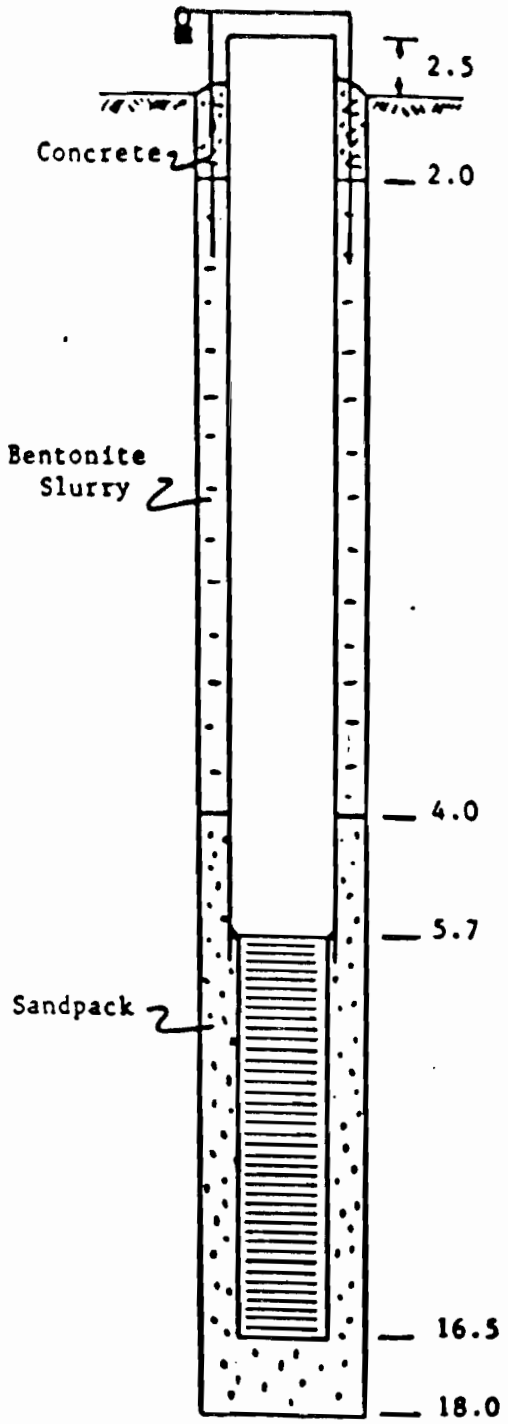
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW - 3S
Date Drilled: 1/21/86
Date Developed: 3/5/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Rich Amirault
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level: 4.87 Date: 4/1/86
Measuring Point *
Total Depth of Boring: 18.0
Well Point Depth: 5.7
Drill Casing
Type: HSA Diameter: 4¼" ID
Length: Material:
Sampling
Type: No Samples Diameter:
Weight: Fall:
Interval:
Pipe Left in Place
Material: SS Diameter: 2"
Length: 19.0 Joint Type: Flush
Screen
Material: SS Diameter: 2"
Slot Size: 10 Interval: 5.7 - 16.5
Stratigraphic Unit Screened: sand and gravel
Packing
Sand: 0 grade Gravel: Natural
Amount: Interval: 4.0 - 18.0
Seal
Type: Bentonite Slurry Interval: 2.0 - 4.0
Locking Casing: Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

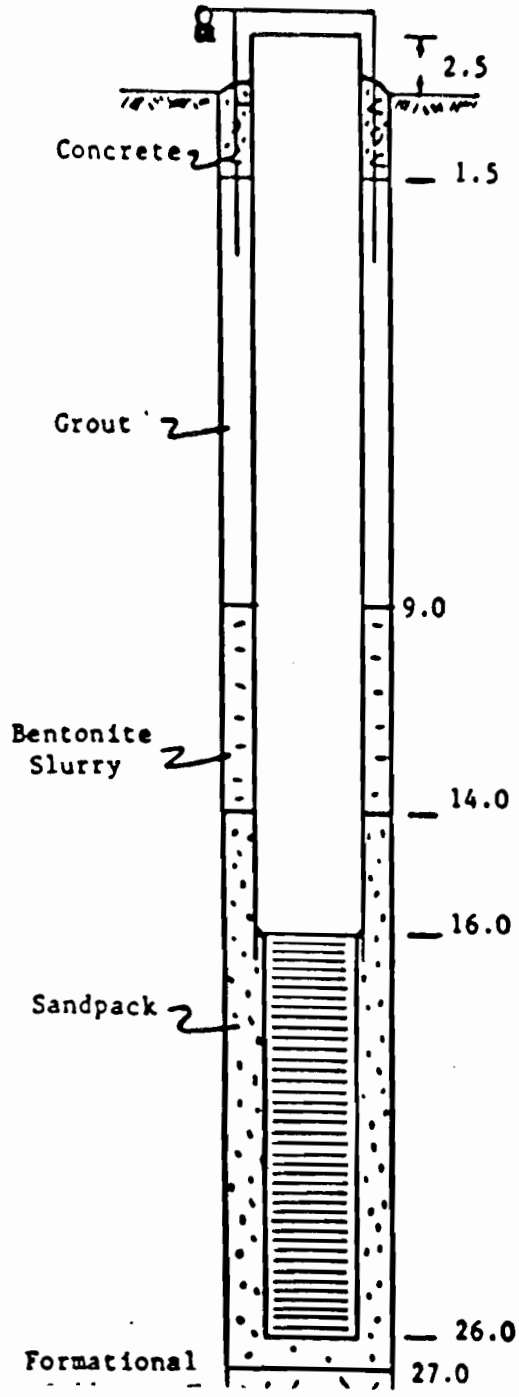
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW-3I
Date Drilled: 1/20/86
Date Developed: 2/5/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Hal Hatfield
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level: 4.98 Date: 4/1/86
Measuring Point*:
Total Depth of Boring: 28.0
Well Point Depth: 16.0
Drill Casing
- Type: HSA Diameter: 4¼" ID
- Length: Material:

Sampling
- Type: No Samples Diameter:
- Weight: Fall:
- Interval:

Pipe Left in Place
- Material: SS Diameter: 2"
- Length: 28.5 Joint Type: Flush

Screen
- Material: SS Diameter: 2"
- Slot Size: 10 Interval: 16.0 - 26.0
- Stratigraphic Unit Screened: sand and gravel

Packing
- Sand: 0 grade Gravel: Natural:
- Amount: 1 bag Interval: 14.0 - 27.0

Seal
- Type: Bentonite Slurry Interval: 9.0 - 14.0

Locking Casing: Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

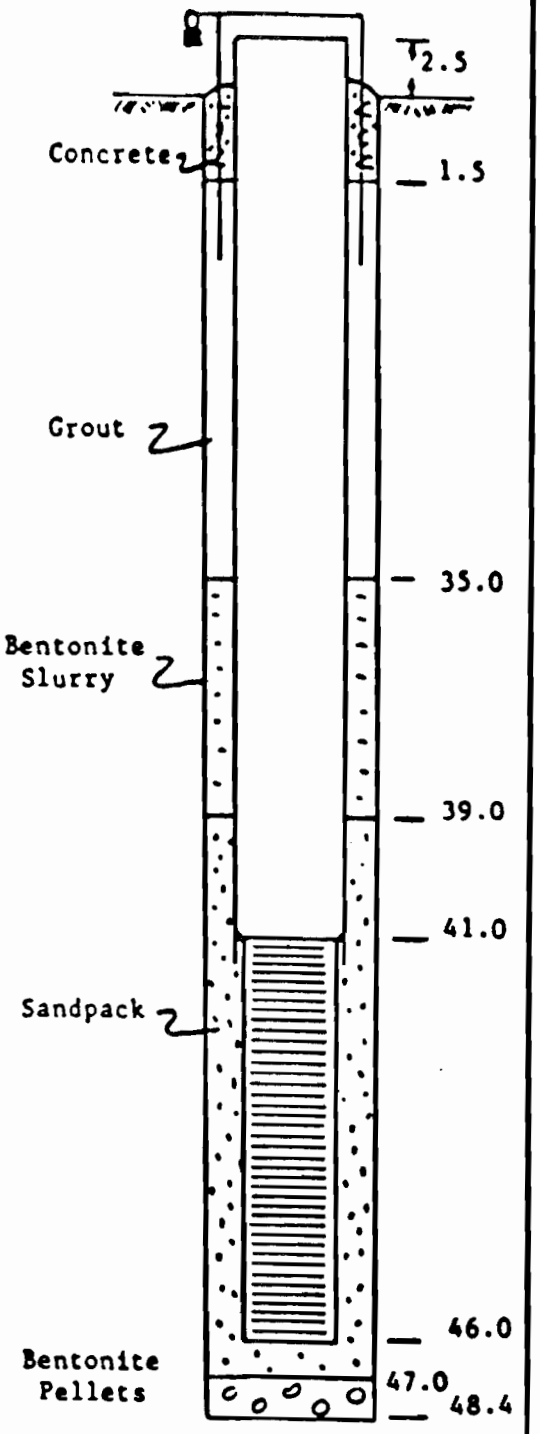
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW-3D
Date Drilled: 1/18/86
Date Developed: 2/5/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Hal Hatfield
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level: 4.74 Date: 4/1/86
Measuring Point*:
Total Depth of Boring: 48.4'
Well Point Depth: 41.0
Drill Casing
- Type: HSA Diameter: 4¼" ID
- Length: Material:

Sampling
- Type: SS Diameter: 2"
- Weight: 140 lbs. Fall: 30"
- Interval: Continuous

Pipe Left in Place
- Material: SS Diameter: 2"
- Length: 48.5' Joint Type: Flush

Screen
- Material: SS Diameter: 2"
- Slot Size: 10 Interval: 41.0 - 46.0
- Stratigraphic Unit Screened: Lodgement Till

Packing
- Sand: 0 grade Gravel: Natural:
- Amount: 2 bags Interval: 39.0 - 47.0

Seal
- Type: Bentonite Slurry Interval: 35.0 - 39.0
  Bentonite Pellets 47.0 - 48.4

Locking Casing: Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

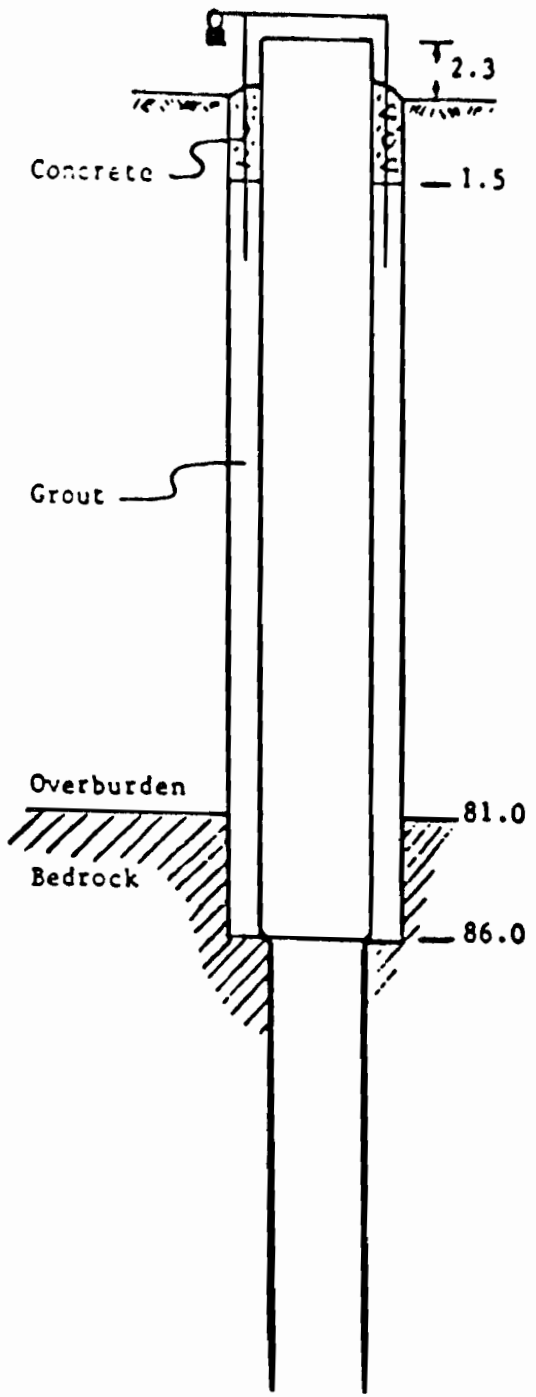
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW-3 Br
Date Drilled: 1/23/86 - 2/8/86
Date Developed: 2/20/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Gordon M. Stevens
Drilling Contractor:*
Type of Well Monitoring
Static Water Level 4.58' Date 4/1/86
Measuring Point **
Total Depth of Boring 92.2'
Well Point Depth 86.0'
Drill Casing
Type Steel Diameter 8"
Sampling
Type Core Diameter 3"
Interval 86.0' - 92.2'
Pipe Left in Place
Material SS Diameter 4"
Length 88.3' Joint Type Flush
Screen
Material Natural Diameter 3"
Interval 86.0' - 92.3'
Stratigraphic Unit Screened sandstone

Rock Socket
Seal
Type grout Interval 81.0' - 86.0'

Locking Casing Yes X No

Notes:

* Soil boring, rock socket and stainless steel riser installed by A.W. Kincaid, Inc. Rock core and locking well protector installed by John Mathes & Associates.

** Static water level measuring point is top of riser. Well construction depths are measured from grade.

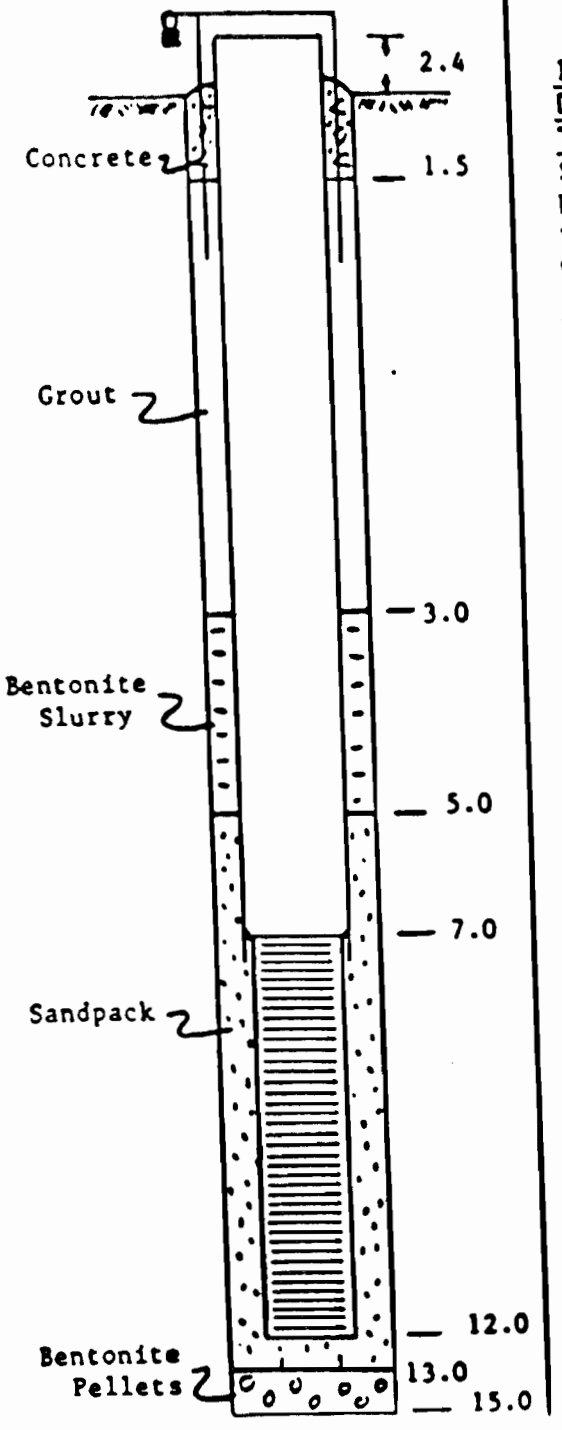
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW-6S
Date Drilled: 1/16/86
Date Developed: 2/7/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Hal Hatfield
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level 9.82 Date 4/1/86
Measuring Point *
Total Depth of Boring 15.0
Well Point Depth
Drill Casing
Type HSA Diameter 4¼" ID
Length Material
Sampling
Type SS Diameter 2"
Weight 140 lbs. Fall 30"
Interval None
Pipe Left in Place
Material SS Diameter 2"
Length 14.4 Joint Type Flush
Screen
Material SS Diameter 2"
Slot Size 10 Interval 7.0 - 12.0
Stratigraphic Unit Screened sand and gravel
Packing
Sand 0 grade Gravel Natural
Amount 2 bags Interval 5.0 - 13.0
Seal
Type Bentonite Slurry Interval 3.0 - 5.0
Bentonite Pellets 13.0 - 15.0
Locking Casing Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

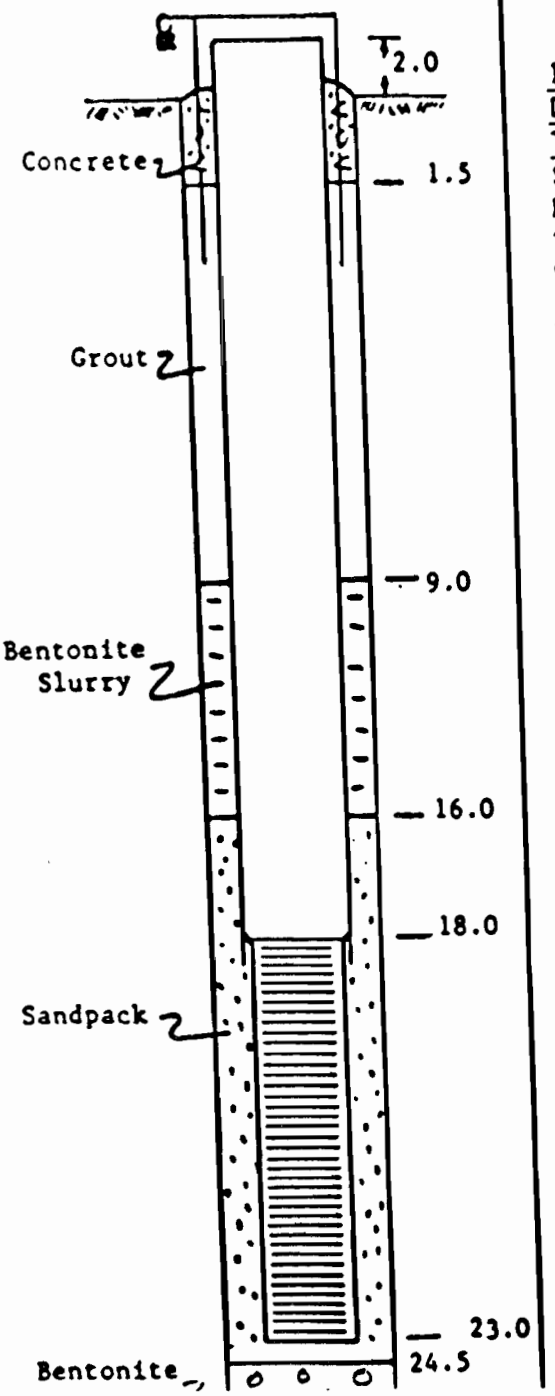
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW-4D
Date Drilled: 1/16/86
Date Developed: 2/7/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Hal Hatfield
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level: 10.2 Date: 4/1/86
Measuring Point*:
Total Depth of Boring: 25.5
Well Point Depth:

Drill Casing
Type: HSA Diameter: 4¼" ID
Length: Material:

Sampling
Type: SS Diameter: 2"
Weight: 140 lbs. Fall: 30"
Interval: Standard

Pipe Left in Place
Material: SS Diameter: 2"
Length: 25.0 Joint Type: Flush

Screen
Material: SS Diameter: 2"
Slot Size: 10 Interval: 18.0 - 23.0
Stratigraphic Unit Screened: Lodgement Till

Packing
Sand: 0 grade Gravel: Natural:
Amount: 2½ bags Interval: 16.0 - 25.5

Seal
Type: Bentonite Slurry Interval: 9.0 - 16.0
Bentonite Pellets 24.5 - 25.5

Locking Casing: Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

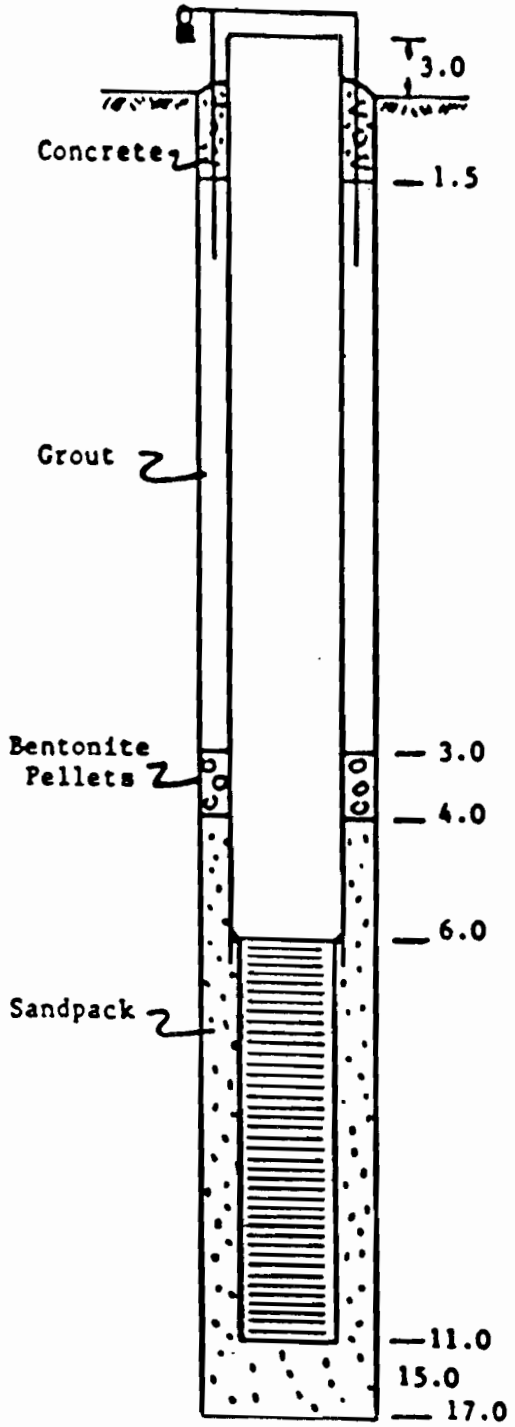
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW-5
Date Drilled: 1/17/86
Date Developed: 2/6/86 - 2/7/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Hal Hatfield
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level 4.31 Date 4/1/86
Measuring Point *
Total Depth of Boring 17.0
Well Point Depth
Drill Casing
- Type HSA Diameter 4¼" ID
- Length Material

Sampling
- Type SS Diameter 2"
- Weight 140 lbs. Fall 30"
- Interval Standard

Pipe Left in Place
- Material SS Diameter 2"
- Length 14.0 Joint Type Flush

Screen
- Material SS Diameter 2"
- Slot Size 10 Interval 6.0 - 11.0
- Stratigraphic Unit Screened fine sand and silt

Packing
- Sand 0 grade Gravel Natural
- Amount 4 bags Interval 4.0 - 15.0

Seal
- Type Bent. Pellets Interval 3.0 - 4.0
  Bentonite Pellets 15.0 - 17.0

Locking Casing Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

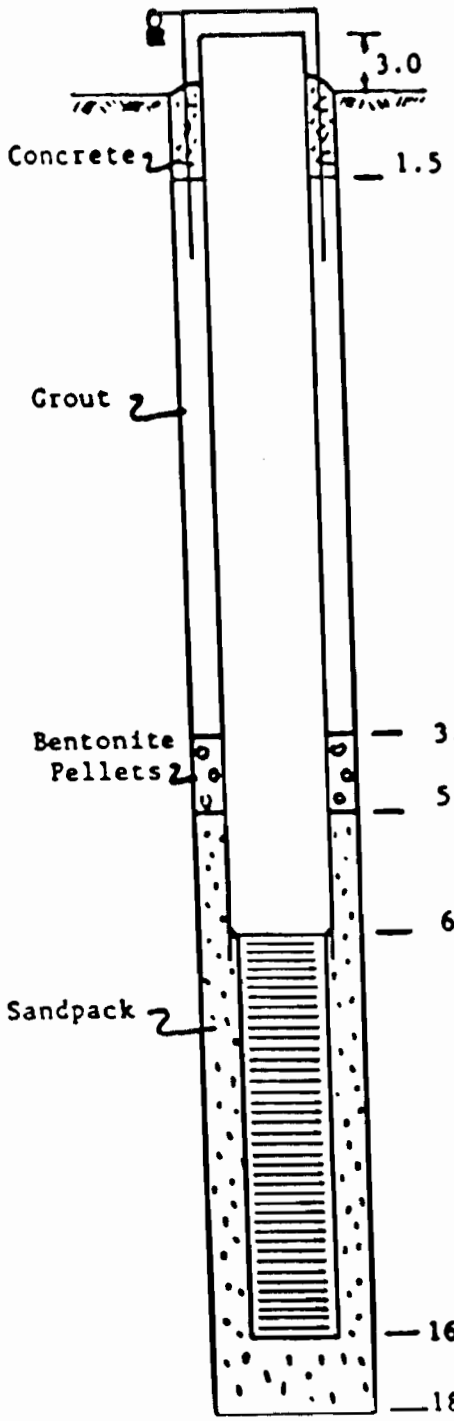
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 353-3-4337
Well #: BW-6
Date Drilled: 1/17/86
Date Developed: 2/6/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Hal Hatfield
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level 4.76 Date 4/1/86
Measuring Point *
Total Depth of Boring 18.0
Well Point Depth
Drill Casing
Type HSA Diameter 4¼" ID
Length Material
Sampling
Type SS Diameter 2"
Weight 140 lbs. Fall 30"
Interval Standard
Pipe Left in Place
Material SS Diameter 2"
Length 19.0 Joint Type Flush
Screen
Material SS Diameter 2"
Slot Size 10 Interval 6.0 - 16.0
Stratigraphic Unit Screened sand and gravel
Packing
Sand 0 grade Gravel Natural
Amount 5½ bags Interval 5.0 - 18.0
Seal
Type Bent. Pellets Interval 3.0 - 5.0

Locking Casing Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

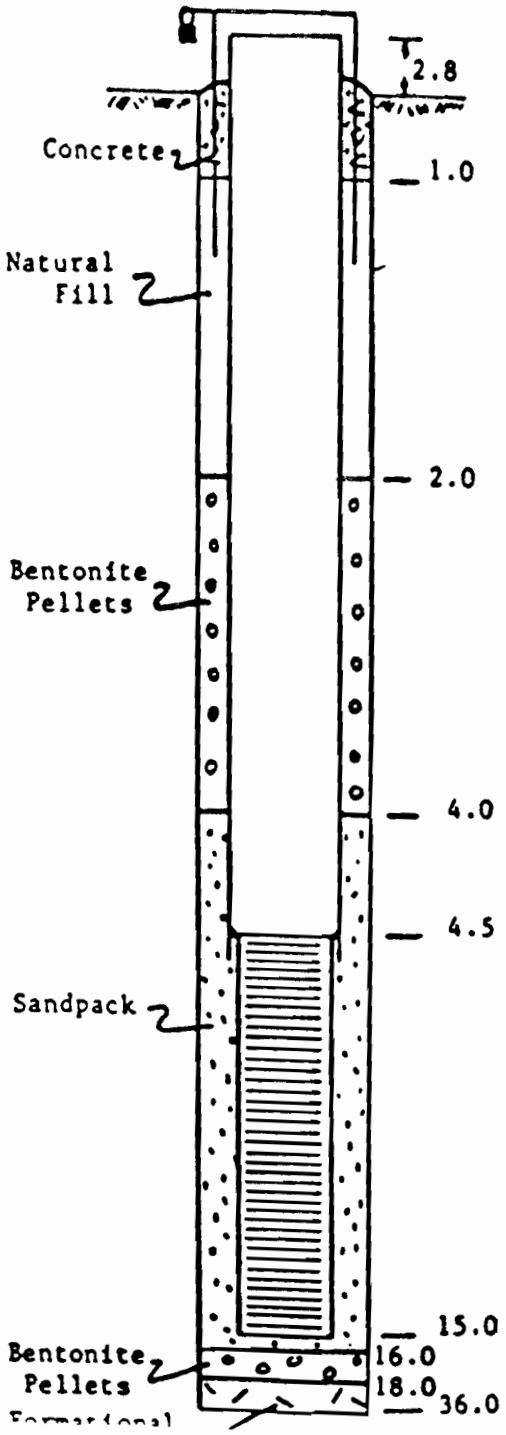
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW - 7S
Date Drilled: 1/19/86 - 1/20/86
Date Developed: 1/29/86 - 1/30/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Gordon M. Stevens
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level 5.60 Date 4/1/86
Measuring Point *
Total Depth of Boring 36.0
Well Point Depth
Drill Casing
  Type HSA Diameter 4¼" ID
  Length Material
Sampling
  Type SS Diameter 2"
  Weight 140 lbs. Fall 30"
  Interval Standard
Pipe Left in Place
  Material SS Diameter 2"
  Length 17.8 Joint Type Flush
Screen
  Material SS Diameter 2"
  Slot Size 10 Interval 4.5 - 15.0
  Stratigraphic Unit Screened sand and gravel
Packing
  Sand 0 grade Gravel Natural
  Amount Interval 4.0 - 16.0
Seal
  Type Bent. Pellets Interval 2.0 - 4.0
  Bent. Pellets 16.0 - 18.0
Locking Casing Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

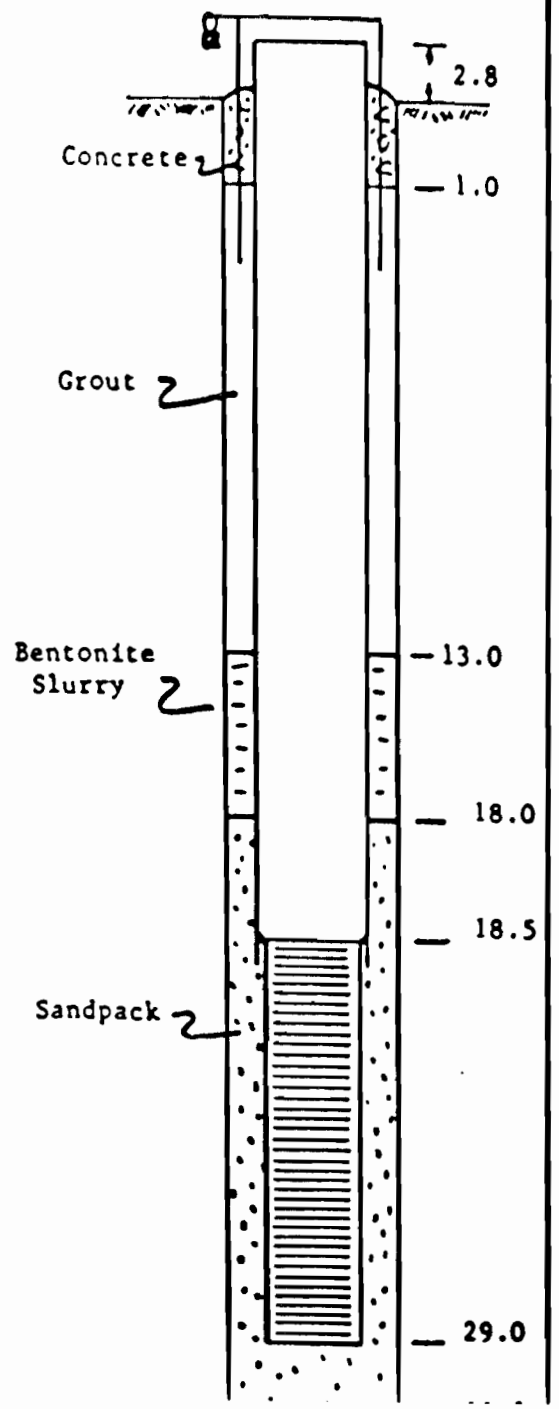
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW - 7D
Date Drilled: 1/22/86
Date Developed: 1/29/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Gordon M. Stevens
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level 4.91 Date 4/1/86
Measuring Point *
Total Depth of Boring 30.0
Well Point Depth 18.5
Drill Casing
Type HSA Diameter 4¼" ID
Length Material
Sampling
Type No Samples Diameter
Weight Fall
Interval
Pipe Left in Place
Material SS Diameter 2"
Length 31.8 Joint Type Flush
Screen
Material SS Diameter 2"
Slot Size 10 Interval 18.5 - 29.0
Stratigraphic Unit Screened fine sand & silt
Packing
Sand 0 grade Gravel Natural
Amount Interval 18.0 - 30.0
Seal
Type Bentonite Slurry Interval 13.0 - 18.0
Locking Casing Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

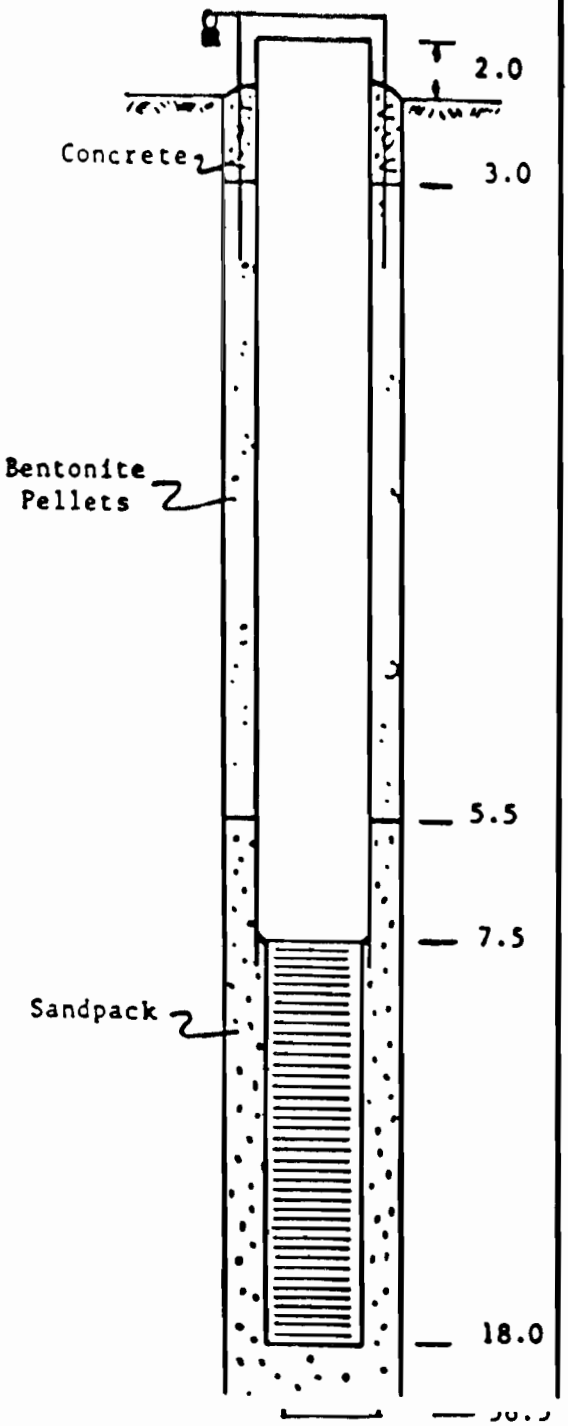
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW - 8S
Date Drilled: 1/17/86
Date Developed: 2/5/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Gordon M. Stevens
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level 10.88 Date 4/1/86
Measuring Point *
Total Depth of Boring 19.0
Well Point Depth 7.5
Drill Casing
Type HSA Diameter 4¼" ID
Length Material
Sampling
Type No Samples Diameter
Weight Fall
Interval
Pipe Left in Place
Material SS Diameter 2"
Length 20.0 Joint Type Flush
Screen
Material SS Diameter 2"
Slot Size 10 Interval 7.5 - 18.0
Stratigraphic Unit Screened fine sand
Packing
Sand 0 grade Gravel Natural
Amount Interval 5.5 - 19.0
Seal
Type Bent. Pellets Interval 3.0 - 5.5

Locking Casing Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

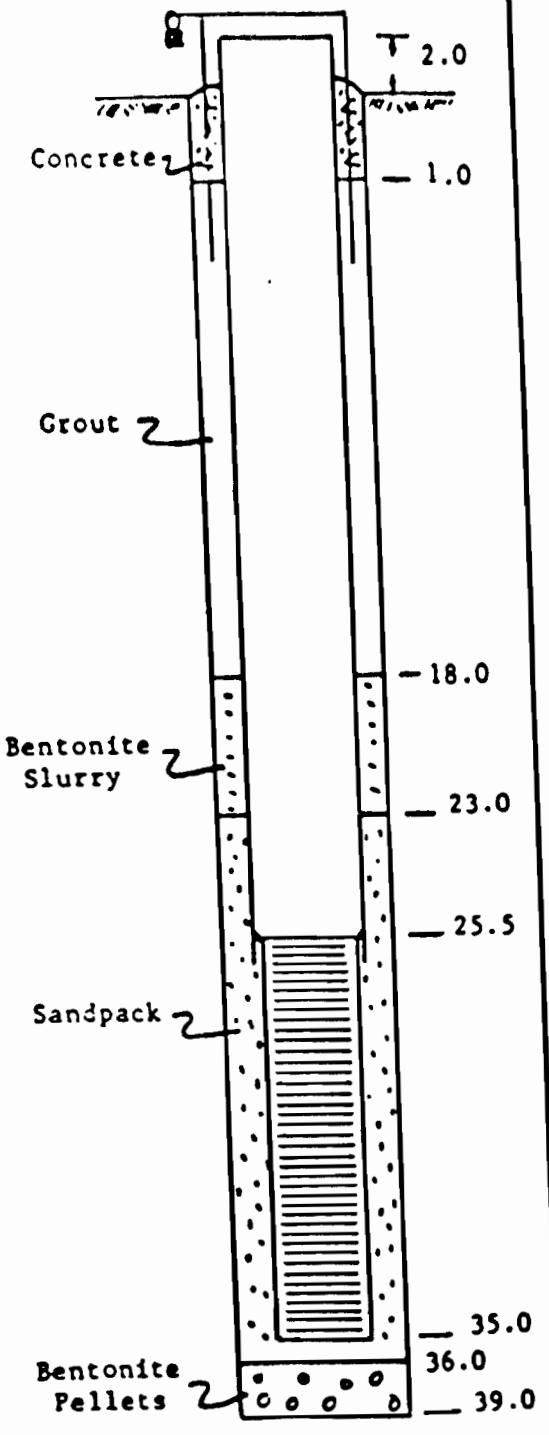
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW - 8D
Date Drilled: 1/16/86 - 1/17/86
Date Developed: 2/5/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Gordon M. Stevens
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level 10.76 Date 4/1/86
Measuring Point *
Total Depth of Boring 39.0
Well Point Depth

Drill Casing
Type HSA Diameter 4¼" ID
Length Material

Sampling
Type SS Diameter 2"
Weight 140 lbs. Fall 30"
Interval Continous

Pipe Left in Place
Material SS Diameter 2"
Length 37.0 Joint Type Flush

Screen
Material SS Diameter 2"
Slot Size 10 Interval 24.5 - 35.0
Stratigraphic Unit Screened sand and gravel

Packing
Sand 0 grade Gravel Natural
Amount Interval 23.0 - 18.0

Seal
Type Bent. Slurry Interval 18.0 - 23.0
Bent. Pellets 36.0 - 39.0

Locking Casing Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

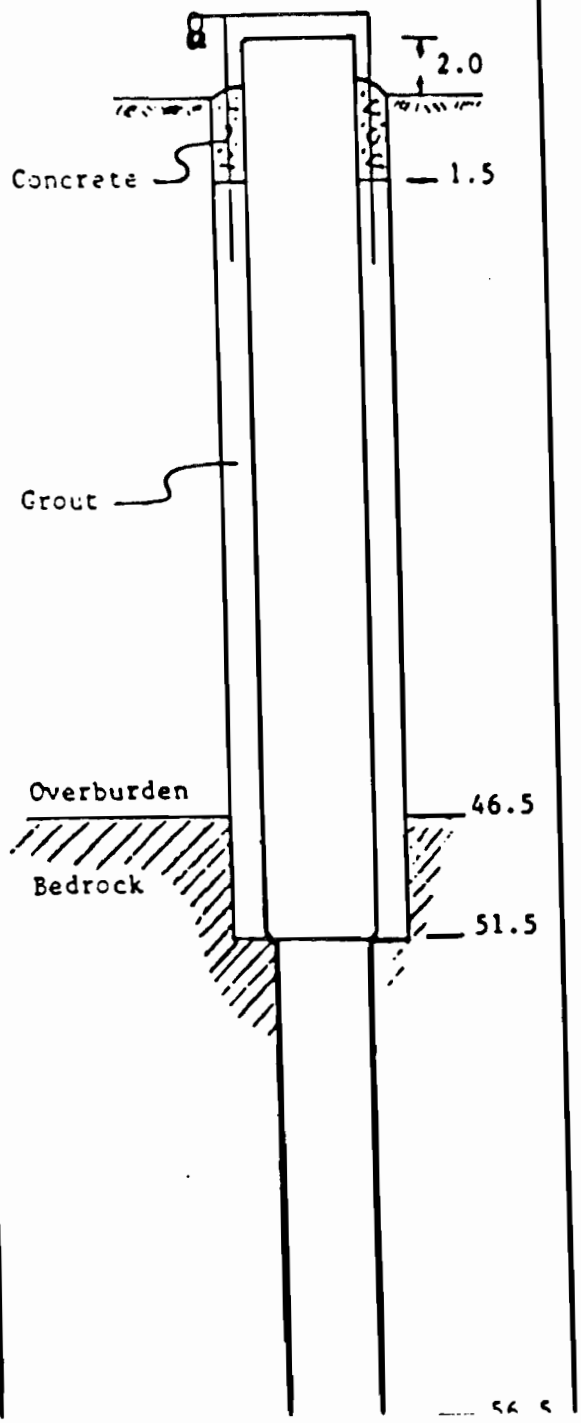
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW-8 Br
Date Drilled: 1/20/86 - 2/6/86
Date Developed: 2/8/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Gordon M. Stevens
Drilling Contractor:*
Type of Well Monitoring
Static Water Level 10.99' Date 4/1/86
Measuring Point **
Total Depth of Boring 56.5'
Well Point Depth 51.5'

Drill Casing
Type Steel Diameter 8"

Sampling
Type Core Diameter 3"
Interval 51.5' - 56.5'

Pipe Left in Place
Material SS Diameter 4"
Length 53.5' Joint Type Flush

Screen
Material Natural Diameter 3"
Interval 51.5 - 56.5
Stratigraphic Unit Screened sandstone

Rock Socket
Seal
Type grout Interval 46.5' - 51.5'

Locking Casing Yes X No

Notes:

* Soil boring, rock socket and stainless steel riser installed by A.W. Kincaid, Inc. Rock core and locking well protector installed by John Mathes & Associates.

** Static water level measuring point is top of riser. Well construction depths are measured from grade.

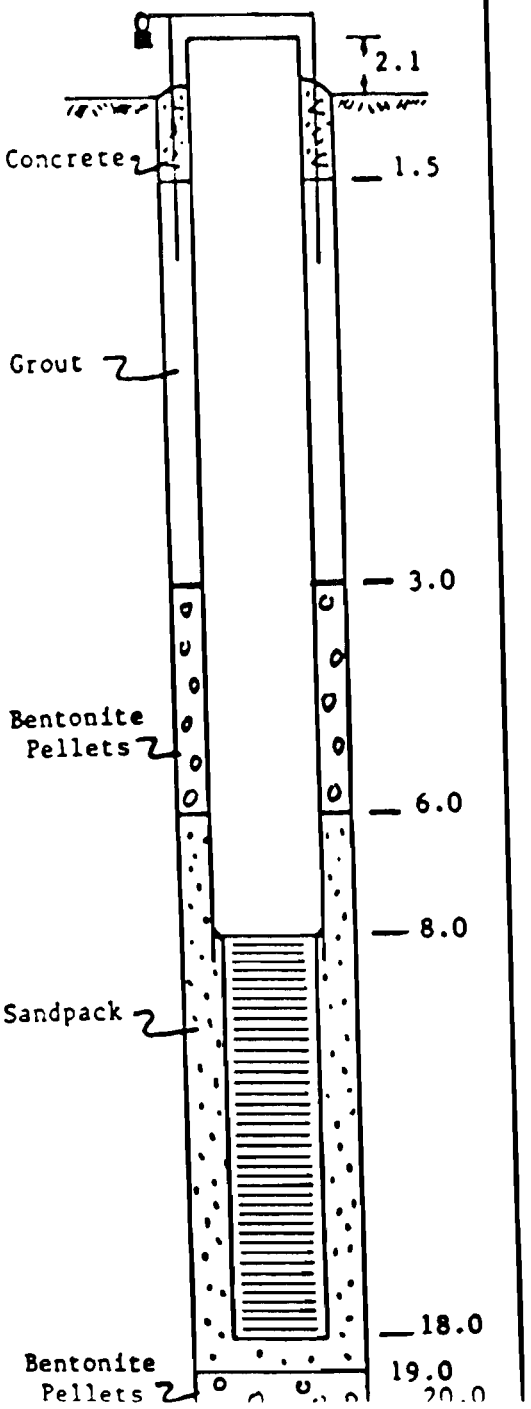
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW-9S
Date Drilled: 1/10/86
Date Developed: NA

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Hal Hatfield
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level: dry Date: 4/1/86
Measuring Point *
Total Depth of Boring: 20.0
Well Point Depth:

Drill Casing
Type: HSA Diameter: 4¼" ID
Length: Material:

Sampling
Type: No Sampling Diameter:
Weight: Fall:
Interval:

Pipe Left in Place
Material: SS Diameter: 2"
Length: 20.1 Joint Type: Flush

Screen
Material: SS Diameter: 2"
Slot Size: 10 Interval: 8.0 - 18.0
Stratigraphic Unit Screened: Fill

Packing
Sand: 0 grade Gravel: Natural:
Amount: 4 1/3 bags Interval: 6.0 - 19.0

Seal
Type: Bent. Pellets Interval: 19.0 - 20.0
Bentonite Pellets 3.0 - 6.0

Locking Casing: Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

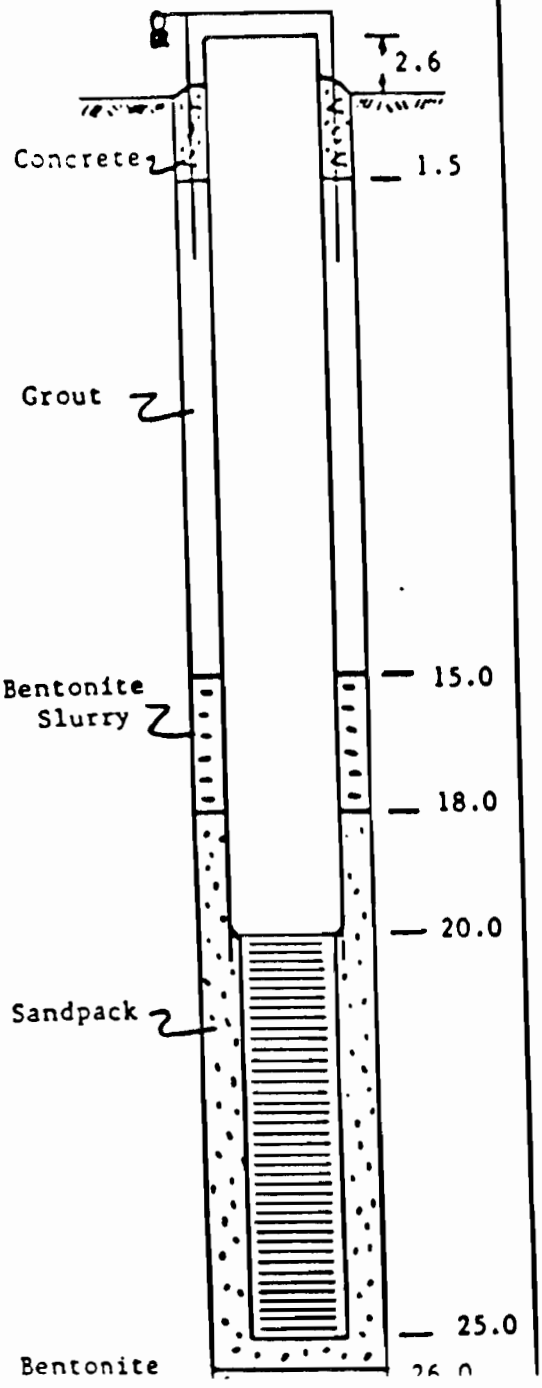
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW-9D
Date Drilled: 1/10/86
Date Developed: NA

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Hal Hatfield
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level: dry Date: 4/1/86
Measuring Point *
Total Depth of Boring: 27.0
Well Point Depth:
Drill Casing
Type: HSA Diameter: 4¼" ID
Length: Material:
Sampling
Type: SS Diameter: 2"
Weight: 140 lbs. Fall: 30"
Interval: Standard (every 5.0')
Pipe Left in Place
Material: SS Diameter: 2"
Length: 27.6 Joint Type: Flush
Screen
Material: SS Diameter: 2"
Slot Size: 10 Interval: 20.0 - 25.0
Stratigraphic Unit Screened: Lodgement till
Packing
Sand: 0 grade Gravel: Natural:
Amount: 2 bags Interval: 18.0 - 26.0
Seal
Type: Bentonite Slurry Interval: 15.0 - 18.0
Bentonite Pellets 26.0 - 27.0
Locking Casing: Yes: X No:

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

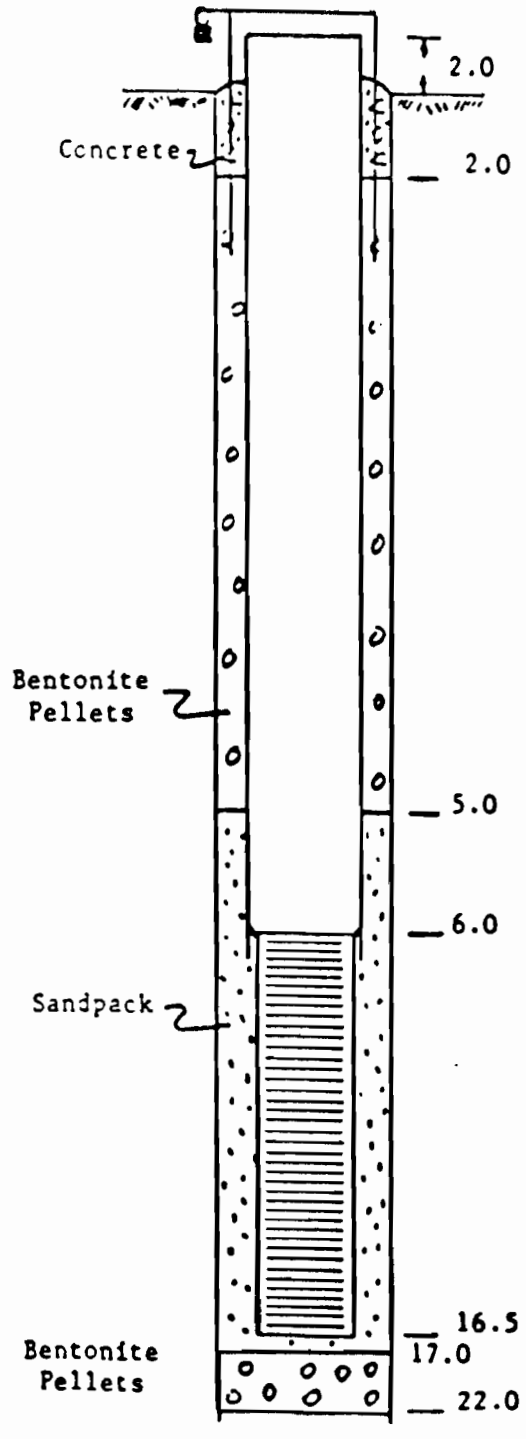
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW - 10S
Date Drilled: 1/15/86
Date Developed: NA

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Gordon M. Stevens
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level: Dry Date: 4/1/86
Measuring Point *:
Total Depth of Boring: 22.0
Well Point Depth:

Drill Casing
Type: HSA Diameter: 4¼" ID
Length: Material:

Sampling
Type: SS Diameter: 2"
Weight: 140 lbs. Fall: 30"
Interval: Continuous

Pipe Left in Place
Material: SS Diameter: 2"
Length: 18.5 Joint Type: Flush

Screen
Material: SS Diameter: 2"
Slot Size: 10 Interval: 6.0 - 16.5
Stratigraphic Unit Screened: garbage

Packing
Sand: 0 grade Gravel: Natural:
Amount: Interval: 5.0 - 17.0

Seal
Type: Bent. Pellets Interval: 2.0 - 5.0
Bent. Pellets 17.0 - 22.0

Locking Casing: Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

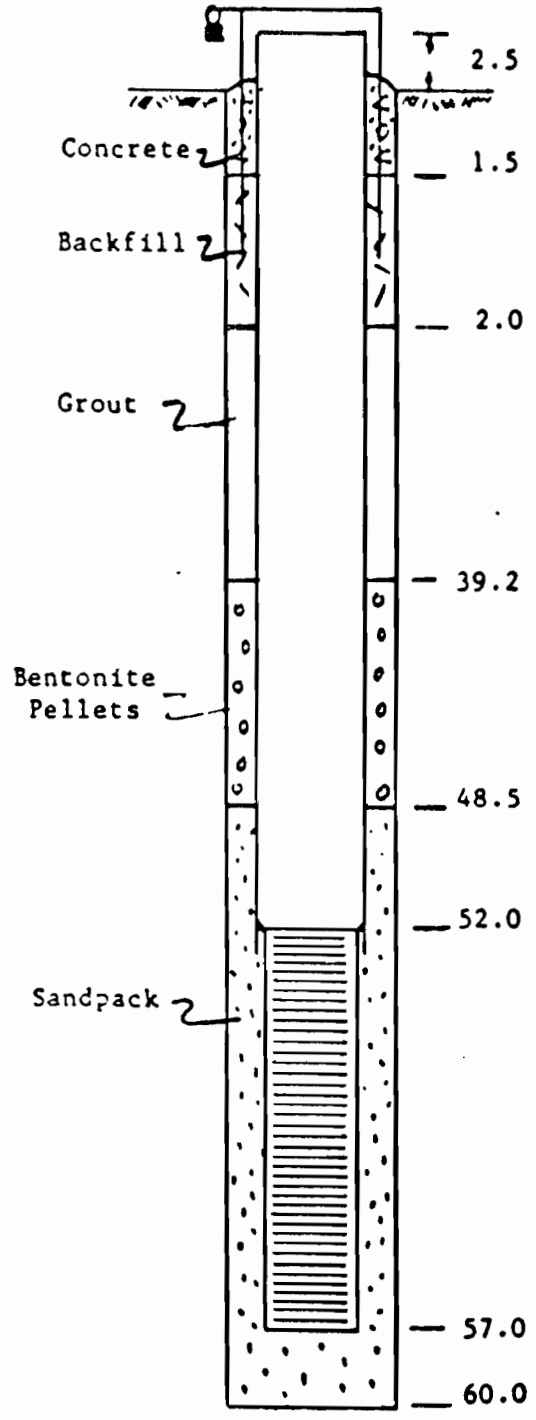
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW - 10D
Date Drilled: 1/31/86
Date Developed: 2/5/86 - 2/6/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Gordon M. Stevens
Drilling Contractor: A.W. Kincaid, Inc.
Type of Well: Monitoring
Static Water Level: 38.94 Date: 4/1/86
Measuring Point *:
Total Depth of Boring: 60.0
Well Point Depth: 52.0

Drill Casing
Type: Flush Joint Diameter: 8"
Length: Material: steel

Sampling
Type: one grab Diameter:
Weight: Fall:
Interval: 40'

Pipe Left in Place
Material: SS Diameter: 2"
Length: 59.5 Joint Type: Flush

Screen
Material: SS Diameter: 2"
Slot Size: 10 Interval: 52.0 - 57.0
Stratigraphic Unit Screened: Lodgement Till

Packing
Sand: 0 grade Gravel: Natural:
Amount: Interval: 48.5 - 60.0

Seal
Type: Bent. Pellets Interval: 39.2 - 48.5

Locking Casing: Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

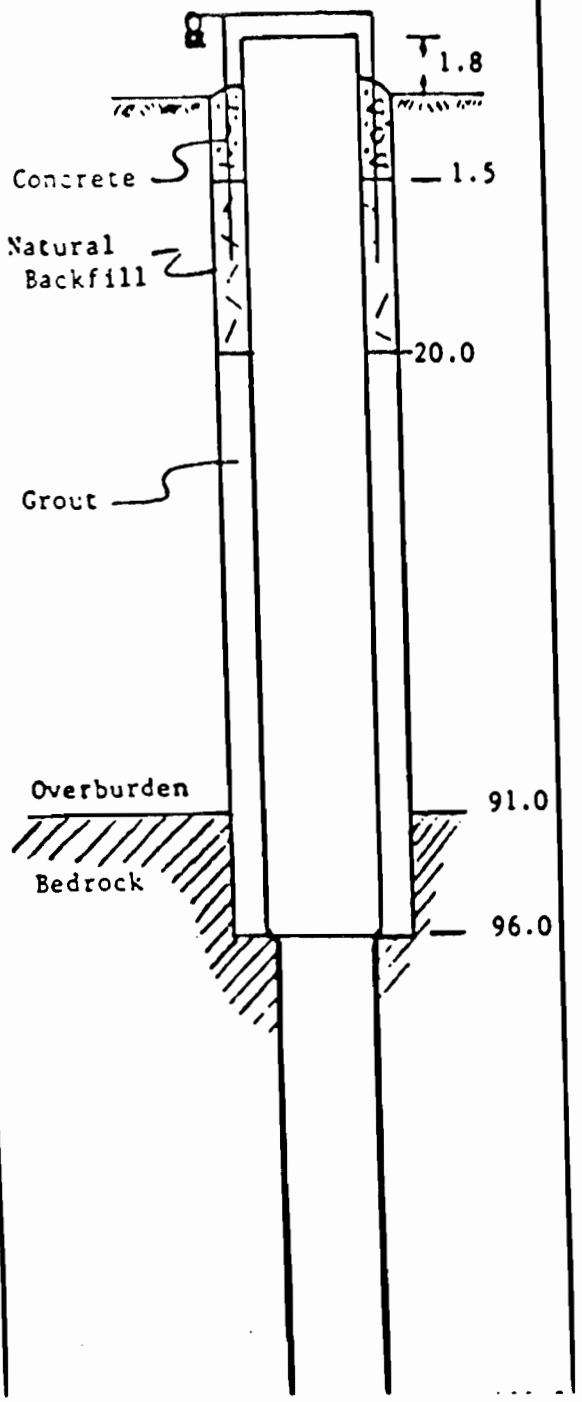
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW-10 Br
Date Drilled: 1/29/86 - 2/8/86
Date Developed: 2/20/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Gordon M. Stevens
Drilling Contractor:*
Type of Well Monitoring
Static Water Level 53.31' Date 4/1/86
Measuring Point **
Total Depth of Boring 102.0'
Well Point Depth 96.0'

Drill Casing
Type Steel Diameter 8"

Sampling
Type Core Diameter 3"
Interval 96.0' - 102.0'

Pipe Left in Place
Material SS Diameter 4"
Length 98.8 Joint Type Flush

Screen
Material Natural Diameter 3"
Interval 96.0' - 102.0'
Stratigraphic Unit Screened sandstone

Rock Socket
Seal
Type grout Interval 91.0' - 96.0'

Locking Casing Yes X No

Notes:

* Soil boring, rock socket and stainless steel riser installed by A.W. Kincaid, Inc. Rock core and locking well protector installed by John Mathes & Associates.

** Static water level measuring point is top of riser. Well construction depths are measured from grade.

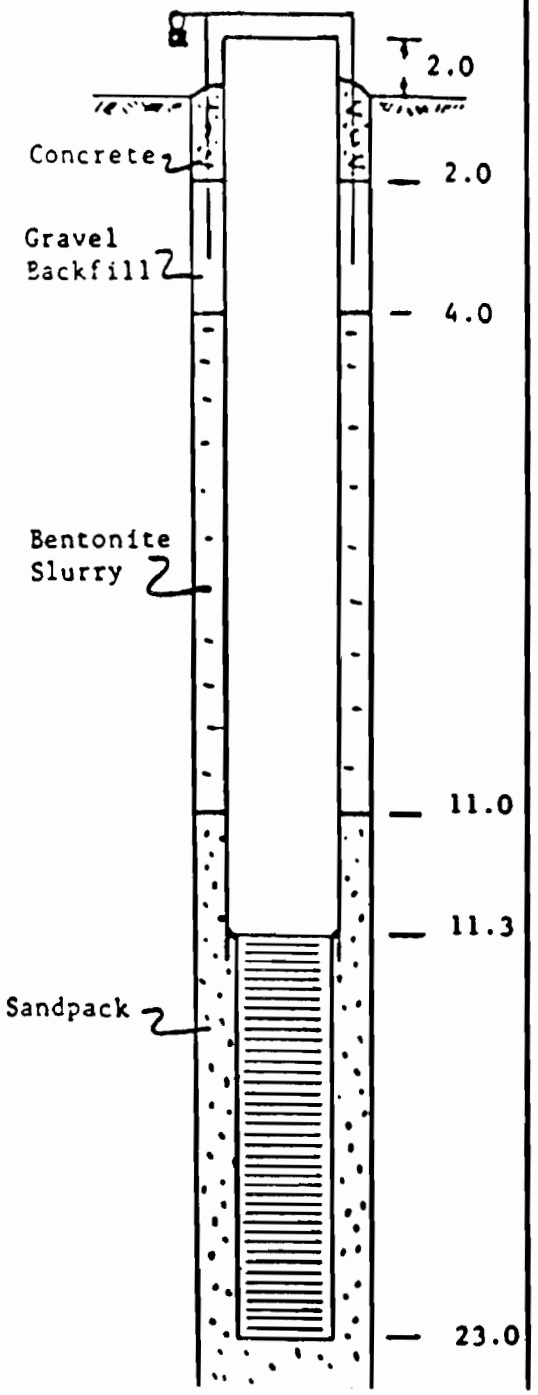
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW-11
Date Drilled: 1/22/86
Date Developed: 1/31/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Rich Amirault
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level 19.65 Date 4/1/86
Measuring Point *
Total Depth of Boring 25.0
Well Point Depth
Drill Casing
  Type HSA Diameter 4¼" ID
  Length Material
Sampling
  Type SS Diameter 2"
  Weight 140 lbs. Fall 30"
  Interval Standard
Pipe Left in Place
  Material SS Diameter 2"
  Length 25.0 Joint Type Flush
Screen
  Material SS Diameter 2"
  Slot Size 10 Interval 11.3 - 23.0
  Stratigraphic Unit Screened sand and gravel
Packing
  Sand 0 grade Gravel Natural
  Amount Interval 11.0 - 25
Seal
  Type Bentonite Slurry Interval 4.0 - 11.0
Locking Casing Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

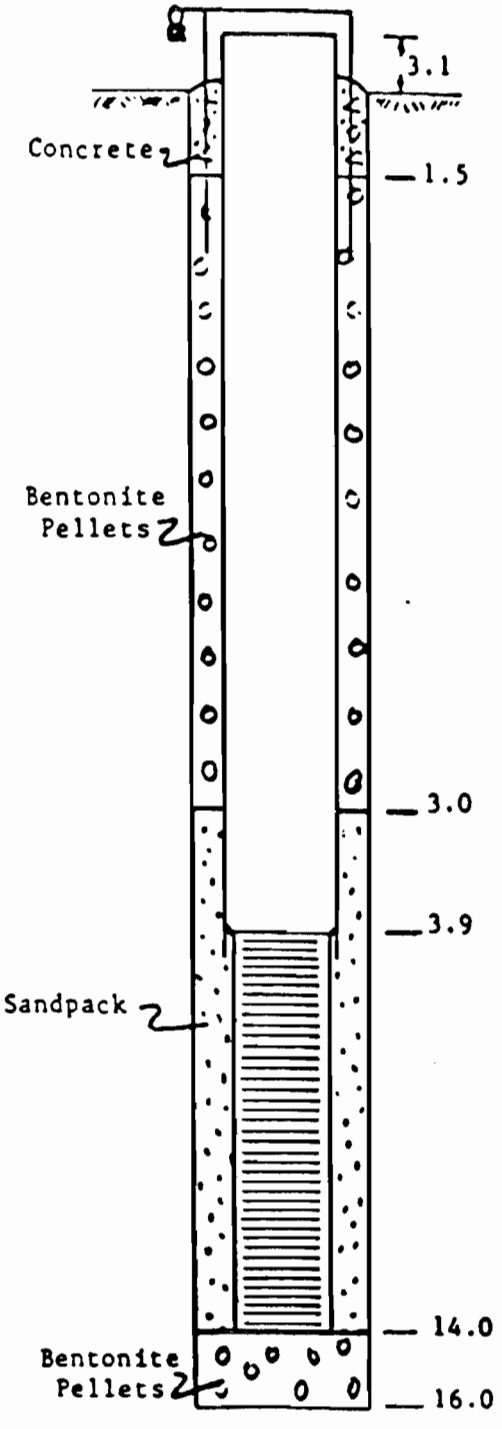
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: MW-12
Date Drilled: 1/18/86
Date Developed: 2/4/86 - 2/5/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Gordon M. Stevens
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level 14.14 Date 4/1/86
Measuring Point *
Total Depth of Boring 16.0
Well Point Depth
Drill Casing
Type HSA Diameter 4¼" ID
Length Material
Sampling
Type SS Diameter 2"
Weight 140 lbs. Fall 30"
Interval Standard
Pipe Left in Place
Material SS Diameter 2"
Length 17.1 Joint Type Flush
Screen
Material SS Diameter 2"
Slot Size 10 Interval 3.9 - 14.0
Stratigraphic Unit Screened sand and gravel
Packing
Sand 0 grade Gravel Natural
Amount Interval 3.0 - 14.0
Seal
Type Bent. Pellets Interval 1.5 - 3.0
Bent. Pellets 14.0 - 16.0
Locking Casing: Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

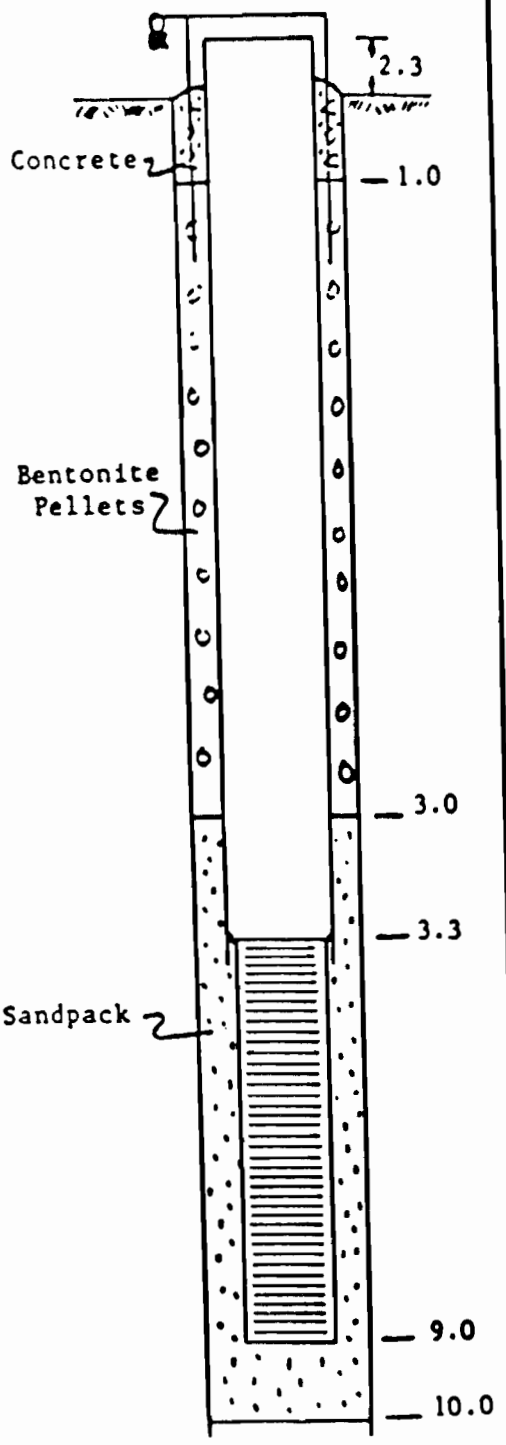
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW-13
Date Drilled: 1/22/86
Date Developed 2/4/86 - 2/5/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Rich Arirault
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level: 3.54 Date 4/1/86
Measuring Point *
Total Depth of Boring 10.0
Well Point Depth
Drill Casing
Type HSA Diameter 4¼" ID
Length Material
Sampling
Type SS Diameter 2"
Weight 140 lbs. Fall 30"
Interval Standard
Pipe Left in Place
Material SS Diameter 2"
Length 11.3 Joint Type Flush
Screen
Material SS Diameter 2"
Slot Size 10 Interval 3.3 - 9.0
Stratigraphic Unit Screened Lodgement till
Packing
Sand 0 grade Gravel Natural
Amount Interval 3.0 - 10.0
Seal
Type Bent. Pellets Interval 1.0 - 3.0
Locking Casing Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

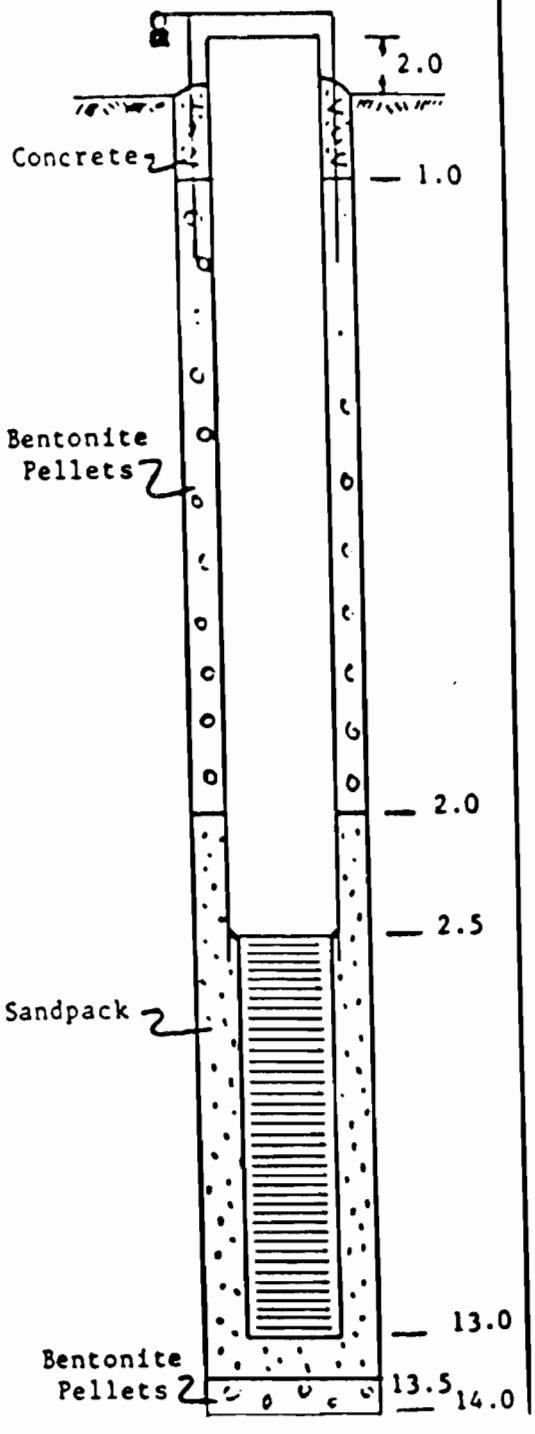
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW-14
Date Drilled: 1/22/86
Date Developed: 1/29/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Gordon M. Stevens
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level 4.23 Date 4/1/86
Measuring Point *
Total Depth of Boring 14.0
Well Point Depth
Drill Casing
Type HSA Diameter 4½" ID
Length Material
Sampling
Type SS Diameter 2"
Weight 140 lbs. Fall 30"
Interval Standard
Pipe Left in Place
Material SS Diameter 2"
Length 15.0 Joint Type Flush
Screen
Material SS Diameter 2"
Slot Size 10 Interval 2.5 - 13.0
Stratigraphic Unit Screened fine sand
Packing
Sand 0 grade Gravel Natural
Amount Interval 2.0 - 13.5
Seal
Type Bent. Pellets Interval 1.0 - 2.0
Bent. Pellets 13.5 - 14.0
Locking Casing Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

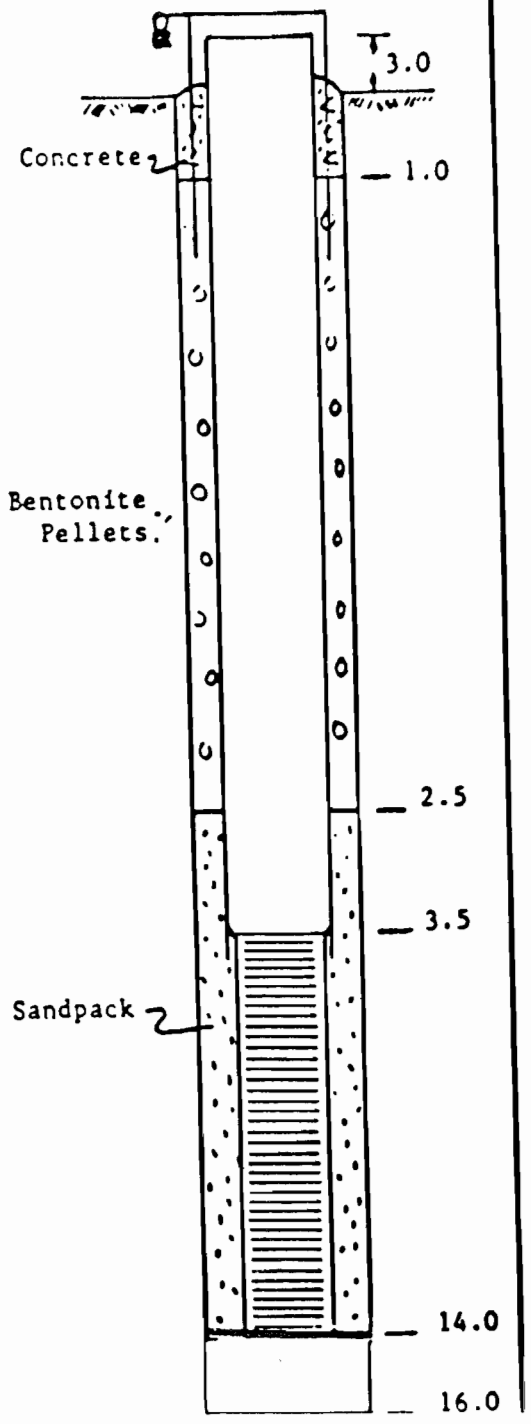
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW-15
Date Drilled: 1/17/86
Date Developed: 1/31/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Gordon M. Stevens
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level: 7.06 Date: 4/1/86
Measuring Point *
Total Depth of Boring: 14.0
Well Point Depth:

Drill Casing
- Type: HSA Diameter: 4¼" ID
- Length: Material:

Sampling
- Type: SS Diameter: 2"
- Weight: 140 lbs. Fall: 30"
- Interval: Standard

Pipe Left in Place
- Material: SS Diameter: 2"
- Length: 17.0 Joint Type: Flush

Screen
- Material: SS Diameter: 2"
- Slot Size: 10 Interval: 3.5 - 14.0
- Stratigraphic Unit Screened: sand

Packing
- Sand: 0 grade Gravel: Natural:
- Amount: Interval: 2.5 - 14.0

Seal
- Type: Bent. Pellets Interval: 1.0 - 2.5

Locking Casing: Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

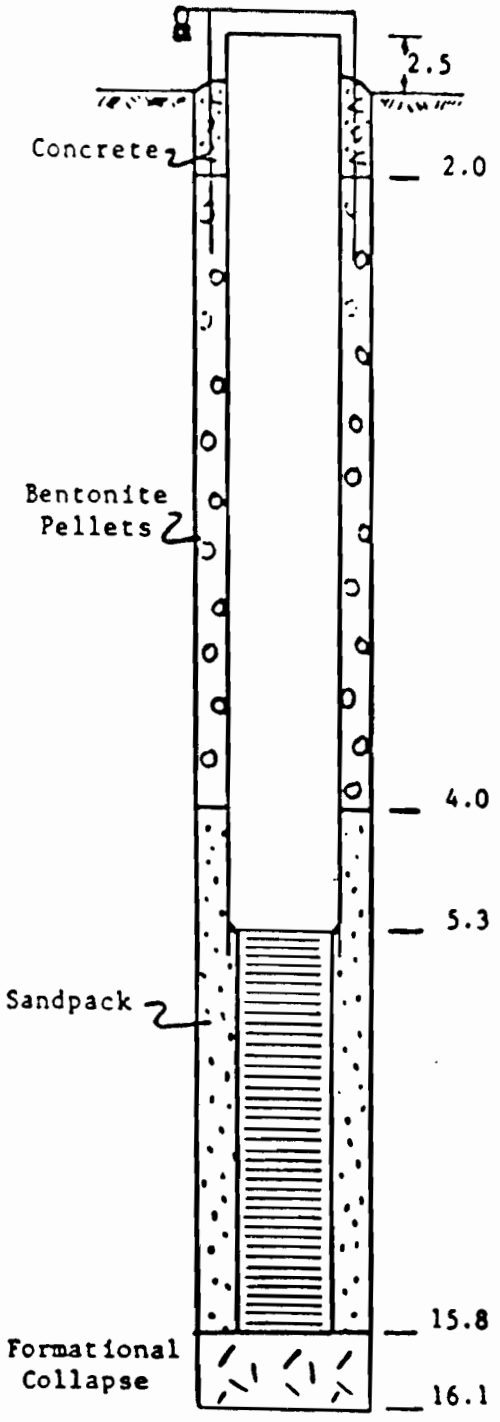
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW-16
Date Drilled: 2/7/86
Date Developed: 2/20/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Gordon M. Stevens
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level 4.70 Date 4/1/86
Measuring Point *
Total Depth of Boring 16.1
Well Point Depth
Drill Casing
Type HSA Diameter 4¼" ID
Length Material
Sampling
Type SS Diameter 2"
Weight 140 lbs. Fall 30"
Interval Standard
Pipe Left in Place
Material SS Diameter 2"
Length 18.3 Joint Type Flush
Screen
Material SS Diameter 2"
Slot Size 10 Interval 5.3 - 15.8
Stratigraphic Unit Screened sand and gravel
Packing
Sand 0 grade Gravel Natural
Amount Interval 4.0 - 15.8
Seal
Type Bent. Pellet Interval 2.0 - 4.0
Locking Casing Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

On Niagara Mohawk Property

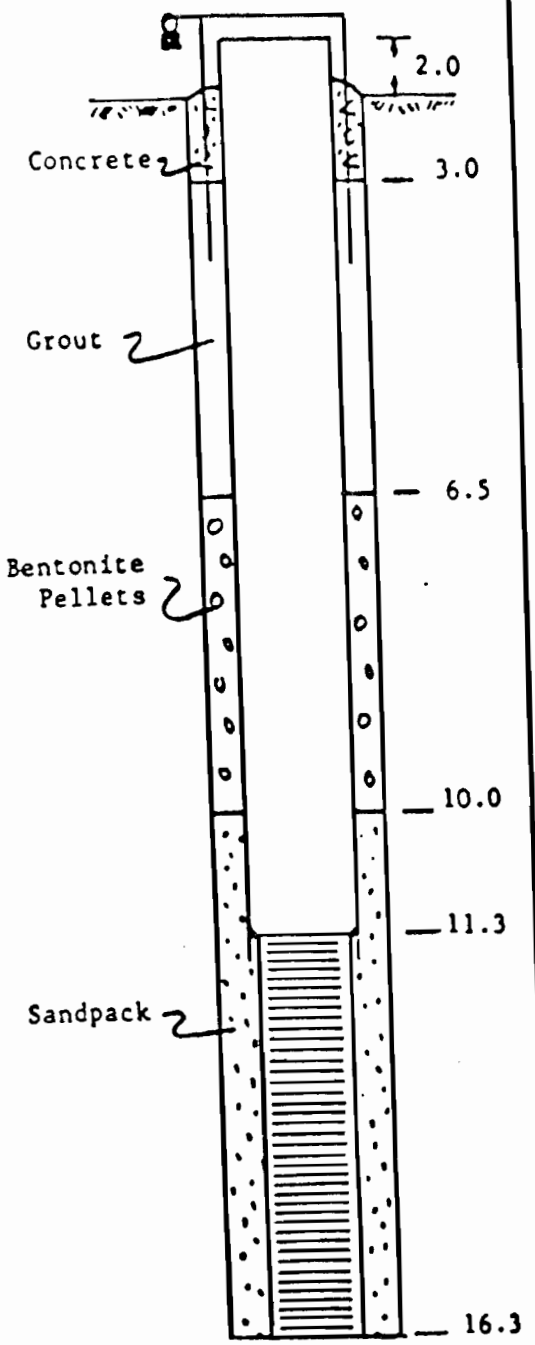
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW-17
Date Drilled: 1/17/86 - 1/18/86
Date Developed: 1/30/86 - 1/31/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Gordon M. Stevens
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level: 5.41 Date: 4/1/86
Measuring Point *
Total Depth of Boring: 16.3
Well Point Depth:
Drill Casing
Type: HSA Diameter: 4¼" ID
Length: Material:
Sampling
Type: SS Diameter: 2"
Weight: 140 lbs. Fall: 30"
Interval: Standard
Pipe Left in Place
Material: SS Diameter: 2"
Length: 18.3 Joint Type: Flush
Screen
Material: SS Diameter: 2"
Slot Size: 10 Interval: 11.3 - 16.3
Stratigraphic Unit Screened: Lodgement Till
Packing
Sand: 0 grade Gravel: Natural:
Amount: Interval: 10.0 - 16.3
Seal
Type: Bent. Pellets Interval: 6.5 - 10.0
Locking Casing: Yes: X No:

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.

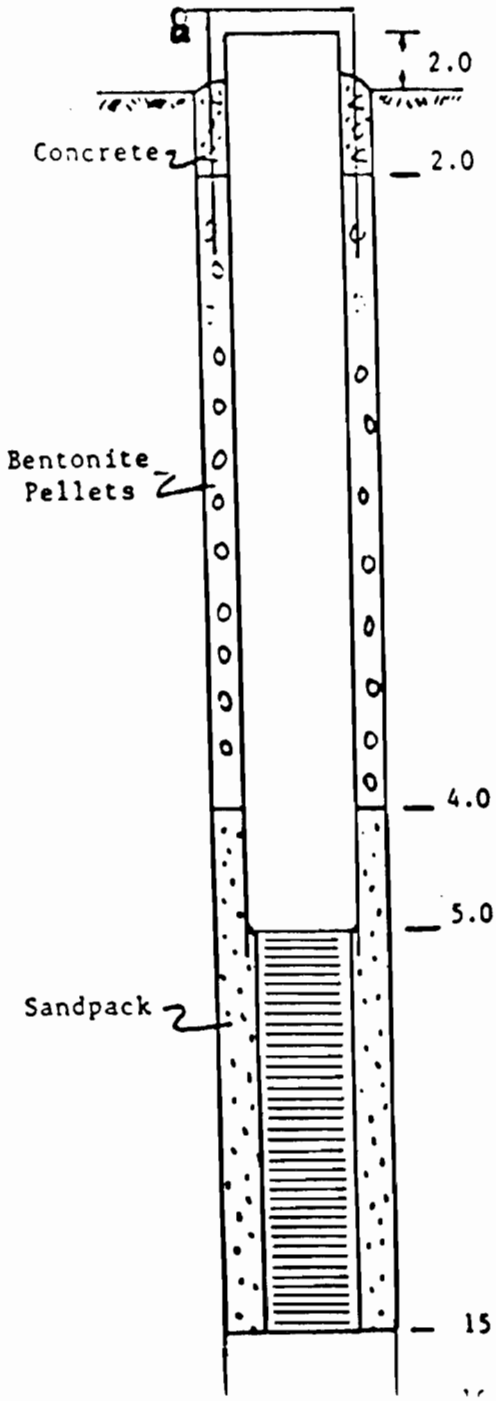
MONITORING WELL COMPLETION LOG

DUNN GEOSCIENCE CORPORATION
5 Northway Lane North
Latham, NY 12110
518/783-8102

Project: Volney Landfill
Client: URS
Project #: 553-3-4337
Well #: BW-12a
Date Drilled: 1/18/86
Date Developed: 1/30/86 - 1/31/86

CONSTRUCTION DETAIL

WELL DIAGRAM



Inspector: Gordon M. Stevens
Drilling Contractor: John Mathes & Associates
Type of Well: Monitoring
Static Water Level: 4.53 Date 4/1/86
Measuring Point *
Total Depth of Boring: 15.1
Well Point Depth:

Drill Casing
Type: HSA Diameter: 4¼" ID
Length: Material:

Sampling
Type: SS Diameter: 2"
Weight: 140 lbs. Fall: 30"
Interval: Standard

Pipe Left in Place
Material: SS Diameter: 2"
Length: 17.1 Joint Type: Flush

Screen
Material: SS Diameter: 2"
Slot Size: 10 Interval: 5.0 - 15.1
Stratigraphic Unit Screened: sand, gravel, clay

Packing
Sand: 0 grade Gravel: Natural:
Amount: Interval: 4.0 - 15.1

Seal
Type: Bent. Pellets Interval: 2.0 - 4.0

Locking Casing: Yes X No

Notes:

* Static water level measuring point is top of riser. Well construction depths are from grade.