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ENVIROGEN

SOIL VAPOR EXTRACTION / AIR SPARGING SYSTEM DECOMMISSIONING REPORT

For the:

MACHIAS GRAVEL PIT SITE
Machias, New York
3/02

Prepared For:

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March 2002

SOIL VAPOR EXTRACTION / AIR SPARGING SYSTEM DECOMMISSIONING REPORT

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ENVIROGEN

1.0 INTRODUCTION

This final closure report summarizes the operation and decommissioning of the soil vapor extraction (SVE) and air sparging (AS) system at the Machias Gravel Pit Site (the Site) in Machias, New York. Envirogen prepared this report on behalf of Motorola Corporation in accordance with the environmental services contract under Envirogen Project No. 10781. This report includes an overview of the background related to the SVE/AS system, a summary of system operation and performance between full system startup on December 22, 1993 and system shutdown on December 27, 1999, and a summary of the final system decommissioning and demobilization conducted in October and December 2001.

2.0 BACKGROUND

Envirogen's involvement at the Site began while doing business as Vapex Environmental Technologies, Inc. in 1992. Vapex assessed the feasibility of employing in-situ SVE/AS technologies to remove VOCs, primarily trichloroethylene (TCE) and trichloroethane (TCA), from vadose and saturated zone soils and groundwater at the Site. After conducting pilot studies in June 1993, Envirogen developed a conceptual design and then constructed a full-scale SVE/AS system between September and December 1993. The final construction included the installation of 16 SVE wells connected by above ground piping to a 25-horsepower rotary lobe blower package that discharged extracted vapors to two 1,000 pound vapor-phase carbon vessels, and 39 AS wells connected by above ground piping and flexible hose to a 30-horsepower rotary screw air compressor system. Envirogen started operation of the SVE system on December 22, 1993, and started operation of the AS system on January 13, 1994.

3.0 SUMMARY OF AS/SVE SYSTEM OPERATION & PERFORMANCE

Envirogen operated, maintained, and monitored the SVE/AS system following initial startup. Initial operation of the SVE/AS system achieved high VOC removal rates. Over the first two years of operation, the system effectively removed approximately 207 pounds of VOCs as TCE. During this period, VOC concentrations in soil vapor declined until reaching an asymptotic level associated with mass transfer limitations (i.e., reduced concentrations of VOCs adsorbed to soil particles resulted in slower transfer to soil vapor due to low concentration gradients). Evidence of mass transfer limitations included low or non-detectable VOC concentrations extracted during SVE operation and little to no rebound in VOC concentrations after extended periods of system inactivity. Envirogen continued operation of the SVE/AS system until the end of 1999 to satisfy a directive given by the New York State Department of Environmental Conservation (NYSDEC). Ultimately, between initial start up of the SVE/AS system on December 22, 1993 and final shutdown on December 27, 1999, the SVE/AS system removed an approximate total of 207 pounds of VOC mass (as TCE).

Following shutdown of the SVE/AS system, HSI Geotrans, the groundwater consultant for the site, continued periodic groundwater monitoring at the Site to evaluate whether groundwater concentrations remained below site closure criteria. In May 2001, Envirogen dismantled the above ground SVE/AS manifold piping to facilitate drill rig access for a soil-sampling event that HSI Geotrans planned to conduct, per request by NYSDEC, in order to demonstrate that Site soils remained below New York State criteria. The results indicated closure actions could

proceed, and following NYSDEC's approval, Envirogen initiated field efforts to decommission the SVE/AS system.

4.0 SUMMARY OF SYSTEM DECOMMISSIONING

4.1 WELL DECOMMISSIONING

Envirogen arrived on-site on Monday, October 29, 2001 to begin system deconstruction and well decommissioning. Envirogen contracted Buffalo Drilling, Inc, a licensed drilling contractor based in Clarence, NY, to decommission the 16 SVE wells and the 39 AS wells. Envirogen provided direction and oversight during the decommissioning activities.

Since the construction of the wells (1" PVC pipe at depths up to 80 feet below ground surface for the AS wells) made both pulling and full-depth over-drilling impractical, Envirogen opted to grout the wells in place. Well decommissioning by this method consisted of using a tremie pipe to pour a grout mixture consisting of Type I Portland cement with approximately four percent bentonite from the bottom of the well up to five feet below ground surface. Envirogen conducted breathing zone monitoring with a photoionization detector equipped with an 11.7 eV lamp (calibrated to isobutylene) during grout injection for health and safety purposes. All readings taken during grout injection, which likely displaced soil vapor, indicated non-detectable concentrations. Envirogen also completed well decommissioning records for each well, which are included in Appendix A.

After completing initial grouting at each well and allowing the grout to settle, Buffalo Drilling rechecked the levels of grout and topped it off where required. Following grouting procedures, Buffalo Drilling over drilled the PVC riser pipe with hollow stem augers to five feet below ground surface. Buffalo Drilling transferred the cut sections of PVC to a 20 cubic yard roll-off container brought on-site for containment of demolition debris. Buffalo Drilling completed the decommissioning of each well by filling the borehole with clean backfill and native soil and compacting the backfill to match surface grade.

Three of the grouted wells (AS18, VW6/AS13, AS22) had steel casings that extended deeper into the subsurface than expected. After unsuccessfully attempting to pull the steel casings with the drill rig, Buffalo Drilling and Envirogen concurred that rescheduling a future date to return with a backhoe would be necessary. On December 7, 2001, Envirogen and Buffalo Drilling returned with a backhoe and proceeded to excavate the soil around the wells to a depth slightly greater than five feet. Buffalo Drilling cut the steel casings at a depth of five feet, covered each well with bentonite chips, and backfilled and compacted the excavation above the grout seal with clean backfill and native soils to match surface grade. The steel riser was disposed of off site as solid waste.

4.2 SYSTEM DECONSTRUCTION & DEMOBILIZATION

Envirogen began deconstruction of system equipment and ancillary piping in conjunction with the oversight work associated with the well decommissioning activities. On Thursday, November 1, 2001, Envirogen removed the SVE/AS manifold and ancillary piping to the

decommissioned wells. In addition, a local electrician terminated the electrical service supplying the SVE/AS equipment inside the treatment building. Once the power was disconnected, the wiring and circuitry to the remediation equipment was dismantled. The electrical inspector from the Town of Machias met with Envirogen on-site following completion of the electrical termination to inspect and certify that the electrical panel was left in proper condition in accordance with local electrical codes. Appendix B contains a copy of the inspection certificate.

A total of five 55-gallon drums containing water discharged from the air sparging system's desiccant dryers and two 55-gallon drums containing spent vapor-phase carbon utilized by the SVE system remained on-site from the former SVE/AS operation. Envirogen arranged for Safety-Kleen Corporation of Lackawanna, NY to sample the drums on November 1, 2001 to create a waste profile for disposal purposes.

On Friday, November 2, 2001, Envirogen transferred the remaining deconstruction debris and other non-salvageable equipment from the site into the roll-off container. Waste Management picked up the container and transported it to the Waste Management landfill in Chaffee, NY for disposal as solid waste.

Completion of system demobilization took place during December 6 and 7, 2001. On December 6, 2001, Envirogen met with Safety Kleen for pickup of the five water drums and two spent carbon drums. Based on the analytical results from samples collected on November 1, 2001, Safety-Kleen prepared a profile characterizing both materials as non-hazardous / non-regulated waste materials and completed a Bill of Lading to accompany the drums during transport. Prior to pickup, Envirogen coordinated with Mayor Douglas Law to obtain his signature as a representative of the Town of Machias (the Generator) on the Bill of Lading. Safety-Kleen transported the seven drums (total) to a Safety-Kleen disposal facility located in Smithfield, KY. Envirogen returned the original Generator copy of the Bill of Lading to the Town office for their record keeping. Appendix C contains a copy of the Bill of Lading.

On December 7, 2001, Envirogen met with Buffalo Drilling to complete decommissioning of the three remaining SVE/AS wells as discussed in the previous section. In addition, Envirogen utilized Buffalo Drilling's backhoe and operator to move the heavy SVE/AS equipment skids from the treatment building and load them onto a common carrier's tractor for transport off-site.

5.0 FINAL CLOSURE STATUS

The decommissioning and demobilization activities concluded Envirogen's involvement with the Site. Post-shutdown groundwater monitoring will continue and the remaining documentation will be submitted to NYSDEC to finalize site closure.

TABLE 1
SVE SYSTEM OPERATION DATA

MACHIAS GRAVEL PIT - MACHIAS, NY

ENVIROGEN Project No. 10781

Date	Time	Operating Time (days)	Total System Flow (cfm)	Influent Concentration* (ppm)	Effluent Concentration* (ppm)	TCE Discharge Rate (lbs/day)	Incremental TCE Removed by SVES (lbs)	Cumulative TCE Removed by SVES (lbs)	Comments
23-Dec-93	10:00 AM	0.0	287	18.9	ND	2.656	0.0	0	Start up.
29-Dec-93	08:00 AM	6.8	NA	NA	NA	0.000	18.2	18	System down due to ice buildup in lines.
29-Dec-93	12:00 PM	7.0	285	16.8	ND	2.349	0.0	18	Final data after restarting.
10 Jan-94	10:30 AM	18.9	NA	NA	NA	0.000	28.0	46	System down due to ice buildup in lines.
12-Jan-94	04:00 PM	18.9	425	18.9	ND	3.940	0.0	46	Start up data; winterized lines.
13-Jan-94	09:00 AM	19.6	405	21.0	ND	4.167	2.9	49	Site check data before optimization of SVES wells.
13-Jan-94	03:00 PM	19.8	408	NM	NM	0.000	0.5	50	Final data after optimization of SVES wells.
17-Jan-94		23.8	NA	NA	NA	0.000	0.0	50	System down due to overloaded transformer.
25-Jan-94	10:30 AM	23.8	390	NM	NM	0.000	0.0	50	System data with new transformer before optimization.
25-Jan-94	01:15 PM	23.9	387	7.4	ND	1.394	0.2	50	System data after optimization of SVES wells.
03-Feb-94	11:00 AM	32.7	417	12.6	ND	2.577	17.4	67	System down due to low amp setting.
03-Feb-94	03:00 PM	32.8	405	11.3	NM	2.252	0.3	67	System data after optimization of SVES wells.
15-Feb-94	11:00 AM	36.3	NA	NA	NA	0.000	7.8	75	System down: motor starter fuse blown.
16-Feb-94	09:30 AM	36.3	412	8.2	ND	1.657	0.0	75	System data after restart w/new fuse.
16-Feb-94	01:30 PM	36.4	400	8.8	ND	1.736	0.3	75	System data after optimization of SVES wells.
22-Feb-94		42.6	NA	NA	NA	0.000	10.7	86	System down: B.Bruyere shut off.
28-Feb-94	11:30 AM	42.6	442	8.2	ND	1.776	0.0	86	System data after restart.
28-Feb-94	03:45 PM	42.7	414	7.5	ND	1.527	0.2	86	System data after optimization of SVES wells.
14-Mar-94	11:30 AM	56.5	412	5.0	ND	1.017	17.5	104	Initial site check data.
14-Mar-94	01:30 PM	56.6	418	5.7	ND	1.163	0.1	104	System data after optimization of SVES wells.
25-Mar-94	10:30 AM	67.4	418	1.9	ND	0.387	8.4	112	Initial site check data.
25-Mar-94	01:30 PM	67.4	404	4.4	ND	0.874	0.0	112	System data after optimization of SVES wells.
21-Apr-94	11:00 AM	94.4	399	0.5	ND	0.098	13.1	125	Initial site check data.
22-Apr-94	12 40 PM	95.4	405	0.5	ND	0.099	0.1	126	System data after optimization of SVES wells.
23-May-94	10:05 AM	126.3	387	1.5	ND	0.285	5.9	132	Initial site check data.
23-May-94	12 15 PM	126.4	389	1.2	ND	0.229	0.0	132	System data after optimization of SVES wells.
27-Jul-94		126.4	NA	NA	NA	0.000	0.0	132	Shut off system until building ventilated.
22-Sep-94	11:15 AM	191.9	425	ND	ND	0.000	0.0	132	System data after restart.
27-Oct-94	03:30 PM	227.1	429	0.6	ND	0.126	2.2	134	Site check data.
17-Nov-94	03:00 PM	248.1	444	0.6	ND	0.131	2.7	136	Site check data.
15-Dec-94	02:30 PM	276.1	432	ND	ND	0.000	1.8	138	Site check data.
25-Jan-95	02:30 PM	317.1	448	0.9	0.6	0.198	4.1	142	Site check data.
28-Feb-95	12:00 PM	351.0	436	ND	ND	0.000	3.4	146	Site check data.
23-Mar-95	06:30 AM	373.7	NA	NA	NA	0.000	0.0	146	System down due to compressor malfunction.
19 Apr-95	04:30 PM	373.3	473	0.2	ND	0.046	0.0	146	System restart data after annual maintenance.

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ENVIROGEN Project No. 10781

Date	Time	Operating Time (days)	Total System Flow (cfm)	Influent Concentration* (ppm)	Effluent Concentration* (ppm)	TCE Discharge Rate (lbs/day)	Incremental TCE Removed by SVES (lbs)	Cumulative TCE Removed by SVES (lbs)	Comments
17-May-95	11:30 AM	391.4	450	ND	ND	0.000	0.4	146	Site check data.
28-Jun-95	12:00 PM	433.5	454	1	1	0.223	4.7	151	Site check data.
26 Jul-95	12:00 PM	461.5	448	2	2	0.439	9.3	160	Site check data.
23-Aug 95	12:00 PM	489.5	447	ND	ND	0.000	6.2	166	Site check data.
29-Sep-95	12:00 PM	526.5	439	ND	ND	0.000	0.0	166	Site check data.
03-Nov-95	03:00 PM	547.4	447	ND	ND	0.000	0.0	166	Blower down. Changed belts and restarted.
01-Dec-95	12:00 PM	575.3	386	3	0.5	0.569	7.9	174	System up. Reconfigured AS system.
24 Jan-96	12:00 PM	628.4	459	-	1	0.225	21.1	195	System down. Removed carbon and restarted.
04-Mar-96	12:00 PM	668.4	454	-	NM	0.000	4.5	200	System down due to electrical problem. Repaired.
02-Apr-96	12:00 PM	681.6	446	-	ND	0.000	0.0	200	Annual compressor maintenance.
28-May 96	12:00 PM	737.6	446	-	ND	0.000	0.0	200	AS unit down. Met with Allan Rabideau from UB.
24-Jun-96	12:00 PM	764.6	NA	-	NA	0.000	0.0	200	Shut system down for University of Buffalo study
02-Jul-96	12:00 PM	764.6	NA	-	NA	0.000	0.0	200	Static soil gas survey. System down.
12-Aug-96	10:25 AM	764.6	NA	-	NA	0.000	0.0	200	Site visit. System remained down.
17-Sep-96	12:00 PM	764.6	483	-	ND	0.000	0.0	200	Restarted SVE and AS defensive line
21-Oct-96	02:20 PM	798.7	492	-	0.5	0.121	2.1	202	
13-Nov-96	03:56 PM	821.8	488	-	ND	0.000	1.4	203	AS down (11/13/96) faulty safety valve - restarted 11/18/96
24-Nov-96	12:00 AM	832.1	488	-	NM	0.000	0.0	203	SVE down due to faulty float switch
10-Dec-96	02:09 PM	832.1	463	-	NM	0.000	0.0	203	SVE down (11/24/96) faulty float switch - restarted 12/10/96
16-Jan-97	11:56 AM	855.1	NA	-	NM	0.000	0.0	203	SVE and AS down (12/31/96) A/W separator frozen solid.
20-Feb-97	09:45 AM	856.0	439	-	ND	0.000	0.0	203	Systems still down. SVE and AS systems restarted.
02-Apr-97	10:38 AM	897.0	487	-	NM	0.000	0.0	203	SVE system up. AS down. Shut system down for University of Buffalo study.
12-Nov-97	10:00 AM	897.0	492	-	ND	0.000	0.0	203	Full System restart (down since April 2, 1997 for University of Buffalo Study)
15-Jan 98	12:00 PM	961.1	462	-	ND	0.000	0.0	203	System Up - Run time clock on blower does not appear to work
19 Feb-98	12:00 PM	982.1	436	-	ND	0.000	0.0	203	SVE blower down (approx 2 weeks). Tripped overloads
04-Mar-98	12:00 PM	995.1	NM	-	NM	0.000	0.0	203	System Up, Maintenance Site check. Replaced Discharge Stack
17-Apr 98	12:00 PM	1039.1	465	-	ND	0.000	0.0	203	SVE system up. AS down.
15-May-98	12:00 PM	1049.1	NA	-	NA	0.000	0.0	203	System down on 4/27/98 - Blower removed for maintenance
05-Aug-98	04:30 PM	1049.1	NA	-	NA	0.000	0.0	203	System still down. Blower being repaired.
23-Sep-98	11:12 AM	1081.1	141	-	1.4	0.097	1.5	205	System restarted on 8/22/98. System up on arrival.
29-Oct-98	10:47 AM	1117.0	99	-	ND	0.000	1.7	206	System up on arrival.
15-Dec-98	12:00 PM	1164.1	99	-	ND	0.000	0.0	206	System up on arrival.
02-Feb-99	10:40 AM	1213.0	99	-	ND	0.000	0.0	206	System up on arrival.
08-Mar 99	09:00 AM	1242.0	NM	-	NM	NM	NM	206	System up on arrival. - shut down for one month rebound test
15-Apr 99	09:00 PM	1242.2	279	-	ND	0.000	0.0	206	System down since 3/8/99. Restart.
21-Apr-99	06:08 PM	1248.1	278	-	NM	NM	NM	206	System up on arrival - remained up while AS system being repaired

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ENVIROGEN Project No. 10781

Date	Time	Operating Time (days)	Total System Flow (cfm)	Influent Concentration* (ppm)	Effluent Concentration* (ppm)	TCE Discharge Rate (lbs/day)	Incremental TCE Removed by SVES (lbs)	Cumulative TCE Removed by SVES (lbs)	Comments
18-May-99	06:32 PM	1275.1	275	-	ND	0.000	0.0	206	System up on arrival. - shut down for one month rebound test
17-Jun-99	04:24 PM	1275.1	277	-	ND	0.000	0.0	206	System down since 5/18/99. Restart.
16-Jul 99	01:40 PM	1304.0	279	-	NM	NM	NM	206	SVE System up. AS down. Restart.
12-Aug-99	02:05 PM	1331.0	275	-	0.5	0.067	0.9	207	System up on arrival. Shut down for one month rebound test
15 Sep-99	12:00 AM	1331.0	277	-	NM	0.000	0.0	207	Restarted by Knox Air 9/15/99
23 Sep 99	03:00 PM	1338.4	277	-	ND	0.000	0.2	207	System up on arrival.
14 Oct-99	03:00 PM	1359.4	284	-	ND	0.000	0.0	207	System up on arrival. Shut down for one month rebound test
15 Nov 99	01:50 PM	1359.5	314	-	1.1	0.170	0.0	207	System down since 10/14/99. Restart 11/16/99 after maintenance
28 Dec-99	12:25 PM	1401.7	NM	-	NM	NM	NM	207	System down on arrival since 12/27/99. Left off permanently.

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* Concentrations were measured with a Thermo 580B OVM equipped with a photoionization detector (PID), which utilizes a 10.6 eV lamp, and are reported as trichloroethylene (TCE).

ND Not detectable.

NM Not measured.

NA Not applicable, system down.

\- Carbon removed. Influent concentration not applicable.

TABLE 2
SVE WELLHEAD DATA

MACHIAS GRAVEL PIT - MACHIAS, NY

ENVIROGEN Project No. 10781

	VW1		VW2		VW3		VW4		VW5		VW6		VW7		VW8		VW9	
DATE	VAC. ("H2O)	CONC. (ppm)	VAC. ("H2O)	CONC. (ppm)	VAC. ("H2O)	CONC. (ppm)	VAC. ("H2O)	CONC. (ppm)	VAC. ("H2O)	CONC. (ppm)	VAC. ("H2O)	CONC. (ppm)	VAC. ("H2O)	CONC. (ppm)	VAC. ("H2O)	CONC. (ppm)	VAC. ("H2O)	CONC. (ppm)
12/15/93*	ND	40	ND	52	ND	20	ND	6	ND	18	ND	21	ND	92	ND	9	ND	42
1/13/94**	15	10	22	33	34	9	37	9	5	3	32	10	52	80	58	4	55	21
1/25/94	15	7	22	22	34	6	37	5	5	5	32	9	52	52	59	4	56	18
2/3/94	15	9	22	26	34	6	37	9	5	4	32	7	52	76	59	1	56	27
2/16/94	15	6	22	23	34	6	37	8	5	4	32	8	40	57	50	7	48	23
2/28/94	15	7	22	26	34	4	37	8	5	3	32	7	40	64	46	6	43	27
3/14/94	15	4	22	15	34	3	37	6	5	2	31	3	40	23	45	3	45	14
3/25/94	15	3	22	3	34	4	37	3	4	1	32	3	45	2	48	4	45	3
4/21/94	12	ND	22	5	34	ND	37	3	3	ND	32	ND	57	19	55	3	52	13
5/23/94	7	1	25	4	34	1	36	1	3	1	30	1	58	8	63	1	31	5
9/21/94*	ND	ND	ND	5	ND	ND	ND	2	ND	ND	ND	ND	ND	7	40	ND	ND	9
9/22/94	15	NM	22	NM	34	NM	35	NM	6	NM	31	NM	40	NM	40	NM	40	NM
10/27/94	15	1	22	5	35	1	40	2	4	ND	31	2	39	5	45	2	43	6
11/17/94	15	1	22	2	35	ND	40	1	5	1	30	1	40	4	45	1	42	4
12/15/94	16	ND	23	ND	36	ND	40	1	6	ND	31	ND	40	4	45	ND	43	4
1/25/95	16	1	23	4	39	ND	40	1	6	ND	30	ND	40	4	45	1	43	5
2/28/95	16	NM	23	1	40	ND	40	ND	5	ND	15	ND	40	2	45	ND	44	3
4/19/95*	18	4	28	12	35	5	42	9	5	4	31	10	36	5	42	4	40	2
05/17/95	18	ND	30	ND	37	2	44	ND	4	ND	31	ND	38	1	43	ND	41	2
06/28/95	17.5	ND	30	ND	36	ND	43	ND	2.5	ND	31	ND	37	ND	43	ND	40	ND
09/29/95	14	ND	22	4	34	ND	37	ND	3	ND	35	ND	44	2	50	ND	46	3
12/01/95	15	3	22	3	NM	NM	37	4	5	2	32	2	45	4	55	6	50	4
05/28/96	19	ND	27	3	49	ND	42	ND	6	1	40	ND	50	ND	56	1	55	3
7/3/96*	0	1	0	1	0	1	0	2	0	1	0	1	0	4	0	4	0	1
10/21/96	15	ND	22	11	34	ND	37	ND	5	ND	30	0.5	34	0.5	39	0.5	36	2
11/13/96	15	ND	30	ND	34	ND	37	NM	5	ND	30	ND	35	ND	44	ND	40	ND
12/10/96	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
01/16/97	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
02/20/97*	15	1	22	7	34	ND	37	1	5	1	32	1	51	1	55	1	50	4
04/02/97	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
11/12/97*	15	ND	22	ND	27	ND	35	ND	5	ND	25	ND	28	ND	36	ND	34	1
02/19/98	18	ND	32	ND	43	ND	51	ND	5	ND	38	ND	45	ND	50	ND	48	ND
09/23/98	13	ND	23	4	32	ND	41	ND	5	ND	28	ND	32	ND	41	ND	38	ND
12/15/98	15	ND	22	4	32	ND	37	ND	5	ND	28	ND	34	ND	44	ND	48	ND
04/15/99	15	ND	22	ND	30	ND	40	ND	5	ND	30	ND	35	ND	40	ND	40	ND
05/18/99	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND
06/17/99	15	ND	22	ND	34	ND	40	ND	5	ND	29	ND	32	ND	40	ND	38	ND
07/15/99	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
08/12/99	NM	ND	NM	10	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND
09/23/99	15	ND	22	3	NM	NM	36	ND	5	ND	26	ND	26	ND	38	ND	35	ND
10/14/99	13	ND	17	8	NM	NM	27	ND	3	ND	19	ND	20	ND	28	ND	26	ND
11/15/99*	15	ND	25	5	ND	0.55	32	ND	5	ND	20	ND	25	ND	32	ND	30	ND
12/28/99	NM	ND	NM	4	NM	2.55	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND

TABLE 2
SVE WELLHEAD DATA

MACHIAS GRAVEL PIT - MACHIAS, NY

ENVIROGEN Project No. 10781

	VW10		VW11		VW12		VW13		VW14		VW15		VW16		VW17	
DATE	VAC. ("H2O)	CONC. (ppm)	VAC. ("H2O)	CONC. (ppm)	VAC. ("H2O)	CONC. (ppm)	VAC. ("H2O)	CONC. (ppm)	VAC. ("H2O)	CONC. (ppm)	VAC. ("H2O)	CONC. (ppm)	VAC. ("H2O)	CONC. (ppm)	VAC. ("H2O)	CONC. (ppm)
12/15/93*	ND	8	ND	15	ND	20	ND	24	ND	4	ND	7	ND	1	ND	45
1/13/94**	12	7	39	21	51	13	6	11	OFF	OFF	58	9	12	1	43	24
1/25/94	12	6	38	14	54	6	6	7	OFF	OFF	60	5	12	3	43	16
2/3/94	12	5	39	23	52	6	6	7	NM	NM	58	8	12	1	43	19
2/16/94	12	4	38	16	45	6	6	6	9	1	50	10	12	1	35	17
2/28/94	12	5	35	18	40	3	6	6	8	1	45	6	11	ND	40	21
3/14/94	12	3	39	9	40	3	6	3	8	1	51	7	12	1	40	11
3/25/94	12	1	39	1	43	3	5	1	9	1	47	NM	11	1	41	2
4/21/94	9	ND	39	3	51	ND	6	ND	9	ND	54	3	12	ND	43	8
5/23/94	7	1	41	2	58	2	2	1	10	1	63	2	13	2	49	2
9/21/94*	ND	ND	ND	2	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	5
9/22/94	12	NM	35	NM	40	NM	6	NM	8	NM	45	NM	11	NM	40	NM
10/27/94	7	1	35	2	35	1	4	2	6	ND	45	2	11	ND	36	3
11/17/94	8	1	35	1	34	1	3	1	7	1	44	1	11	ND	37	1
12/15/94	8	ND	36	1	36	ND	4	ND	5	ND	45	1	11	ND	38	ND
1/25/95	8	ND	36	1	36	ND	5	ND	8	ND	45	1	12	ND	39	2
2/28/95	5	ND	38	ND	39	ND	5	ND	7	ND	45	ND	12	ND	38	ND
4/19/95*	10	2	36	1	37	2	6	2	10	1	41	1	13	21	35	11
05/17/95	10	ND	37	ND	38	ND	5	ND	5.5	ND	43	ND	10	ND	36	ND
06/28/95	10	ND	36	ND	36	ND	5.5	ND	9.5	ND	43	ND	12.5	ND	35	ND
09/29/95	6	ND	36	1	37	ND	2	ND	9	ND	42	ND	11	ND	42	1
12/01/95	12	2	38	3	50	3	3	4	9	5	52	5	43	4	NM	NM
05/28/96	16	1	23	1	50	1	10	1	65	ND	56	1	15	1	50	1
7/3/96*	0	1	0	1	0	1	0	3	0	11	0	2	0	6	0	1
10/21/96	12	2	31	0.5	32	ND	6	ND	9	ND	38	ND	12	ND	33	0.5
11/13/96	12	ND	35	ND	35	ND	6	ND	9	NM	35	ND	12	NM	35	ND
12/10/96	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
01/16/97	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
2/20/97*	12	ND	36	1	47	ND	6	ND	0	ND	45	92[a]	12	ND	43	1
04/02/97	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
11/12/97*	12	ND	29	ND	30	ND	6	ND	9	ND	32	2	12	ND	29	ND
02/19/98	11	ND	44	ND	44	ND	7	ND	6	ND	50	ND	12	ND	44	ND
09/23/98	14	ND	32	ND	32	ND	8	ND	10	ND	45	ND	10	ND	32	ND
12/15/98	12	ND	34	ND	35	ND	6	ND	9	ND	35	ND	12	ND	33	ND
04/15/99	12	ND	35	ND	35	ND	6	ND	9	ND	40	ND	12	ND	35	ND
05/18/99	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND
06/17/99	12	ND	35	ND	35	ND	6	ND	9	ND	40	ND	12	ND	35	ND
07/15/99	NM	NM	NM	NM	NM	NM	NM	NM	9	ND	40	ND	12	ND	NM	NM
08/12/99	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND
09/23/99	12	ND	32	ND	32	ND	6	ND	9	ND	36	ND	12	ND	31	ND
10/14/99	10	ND	22	ND	22	ND	4	ND	ND	ND	27	ND	10	ND	22	ND
11/15/99*	10	ND	25	ND	25	ND	6	ND	9	ND	30	ND	12	ND	25	ND
12/28/99	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND	NM	ND

I:\Motorola-Machias, NY\10781\reports\WELL DATA.XLS

NOTE: Concentrations were measured with a Thermo 580B OVM equipped with a photoionization detector (PID), which utilizes a 10.6 eV lamp, and are reported as trichloroethylene (TCE).

* Static vapor concentrations - Dynamic vacuum measurements after system reactivated.

** Air sparging system inactive.

NM Not measured.

OFF VW14 off due to pipeline freezing; heat trace and insulation installed 2/3/94.

ND Not detected

[a] Concentration may be due to PVC glue vapors collected in the well head after repair during last site check. The lateral was full of ice and blocked, so the well was not being vented.

VAC. Vacuum, reported as inches of water column ("H2O).

Conc. Concentration

TABLE 3
AS SYSTEM OPERATION DATA

MACHIAS GRAVEL PIT - MACHIAS, NY
ENVIROGEN Project No. 10781

Date	Operating Time (hrs)	Operating Well Config.*	Total Pressure (psi)	Compressor Air Outlet Temperature (deg F)	Perimeter System Pressure (psi)	Module System Pressure (psi)	Defense System Pressure (psi)	Comments
13-Jan-94	0.0	1, 2a, 3	95	NM	55	50	50	Start up of AS system.
17-Jan-94	110.1	1, 2a, 3	-	-	-	-	-	System down due to overloaded transformer.
25-Jan-94	110.1	1, 2a, 3	90	175	60	52	50	System data with new transformer.
03-Feb-94	323.6	1, 2a, 3	90	177	50	50	50	Site check data.
16-Feb-94	612.0	1, 2a, 3	-	-	-	-	-	System down; blower motor starter fuse blown.
16-Feb-94	615.4	1, 2a, 3	95	185	43	50	54	System data 4 hrs after restart.
28-Feb-94	687.9	1, 2a, 3	-	-	-	-	-	System down on High Outlet Air Temp Alarm.
28-Feb-94	690.6	1, 2a, 3	100	170	50	50	50	System data 4 hrs after restart (timer change).
14-Mar-94	1,021.5	1, 2a, 3	97	177	45	56	55	Site check data.
25-Mar-94	1,237.7	1, 2a, 3	-	-	-	-	-	System down on High Outlet Air Temp Alarm.
25-Mar-94	1,238.9	1, 2a, 3	90	175	45	50	54	Site check data.
13-Apr-94	1,693.7	1, 2a, 3	-	-	-	-	-	System down on High Outlet Air Temp Alarm.
21-Apr-94	1,693.7	1, 2b, 3	-	-	50	60	60	System data after restart.
22-Apr-94	1,723.6	1, 2b, 3	-	-	-	-	-	System down on High Outlet Air Temp Alarm.
23-May-94	1,723.6	1, 2b, 3	-	-	-	-	-	Site check data.
25-May-94	1,755.3	1, 2b, 3	-	-	-	-	-	System down on High Outlet Air Temp Alarm.
22-Sep-94	1,755.3	1, 2b, 3	-	180	50	50	50	System data after restart. System was down since May
27-Oct-94	2,654.6	1, 2c, 3	65	175	50	50	50	Site check data.
17-Nov-94	3,155.0	1, 2c, 3	-	180	-	-	-	Site check data.
15-Dec-94	3,829.0	1, 2c, 3	-	175	40	60	58	Site check data.
25-Jan-95	4,810.3	1, 2c, 3	75	175	55	50	55	Site check data.
28-Feb-95	5,626.0	1, 2c, 3	-	180	-	-	-	No adjustments made.
23-Mar-95	5,920.0	1, 2c, 3	-	-	-	-	-	System down due to compressor malfunction.
19-Apr-95	5,920.0	1, 2+, 3	-	175	-	-	-	System restart data after annual maintenance.
17-May-95	6,330.6	1, 2+, 3	-	185	45	60	60	No adjustments made.
28-Jun-95	7,170.0	1, 2+, 3	-	180	40	60	60	System down. Restarted. No adjustments made.
26-Jul-95	7,539.0	1, 2a, 3	70	202	48	70	70	System down. Reconfigured groups and restarted.
23-Aug-95	8,203.0	1, 2a, 3	-	-	-	-	-	System down. Repaired by Knox Air on 8/24/95.
29-Sep-95	9,064.0	1, 2a, 3	60	180	50	45	60	Quick connects need replacement.
01-Dec-95	10,161.9	1, 2b, 3	65	175	40	65	60	Reconfigued to 2b. Replaced quick connects.
02-Apr-96	11,485.0	1, 2a, 3	-	174	40	40	35	Annual maintenance. Reconfigured to 2a.
28-May-96	11,856.2	1, 2a, 3	-	174	40	40	35	AS system down. Restarted (System was down approx 5 weeks) prior
24-Jun-96	11,948.6	-	0	-	-	-	-	System shut down for University of Buffalo study
03-Jul-96	11,948.6	-	0	-	-	-	-	System shut down for University of Buffalo study
12-Aug-96	11,948.6	-	0	-	-	-	-	System shut down for University of Buffalo study
17-Sep-96	11,948.6	3	90	173	-	-	NM	System restarted - Defensive only
21-Oct-96	12,768.0	1, 2a, 3	100	180	40	38	45	Operating Perimeter, Module (2a), and Defensive AS
13-Nov-96	13,322.4	1, 2a, 3	NM	175	37	44	38	AS down - faulty safety valve, restarted 11/18/96

TABLE 3
AS SYSTEM OPERATION DATA

MACHIAS GRAVEL PIT - MACHIAS, NY
ENVIROGEN Project No. 10781

Date	Operating Time (hrs)	Operating Well Config.*	Total Pressure (psi)	Compressor Air Outlet Temperature (deg F)	Perimeter System Pressure (psi)	Module System Pressure (psi)	Defense System Pressure (psi)	Comments
10-Dec-96	13,702.7	1, 2a, 3	NM	NM	NM	NM	NM	AS down, SVE system interlock shut down, 11/24/96, restarted on 12/10/96
16-Jan-97	14,588.7	1, 2a, 3	NM	NM	NM	NM	NM	AS down. SVE down because A/W separator frozen solid.
20-Feb-97	14,588.8	1, 2a, 3	NM	170	37	45	35	AS and SVE restarted.
02-Apr-97	14,701.1	-	NM	NM	NM	NM	NM	AS down on high temp alarm, SVE shut off for University of Buffalo study.
12-Nov-97	14,702.5	1, 2a, 3	100	175	31	44	37	Full System Restart (system had been down since April, 1997 for University of Buffalo study)
15-Jan-98	16,233.1	1, 2a, 3	99	NM	NM	NM	NM	AS System up.
19-Feb-98	17,076.5	1, 2a, 3	100	185	42	42	41	AS System up on arrival. SVE blower was down.
04-Mar-98	NM	1, 2a, 3	NM	NM	NM	NM	NM	AS System up. Maintenance site check.
17-Apr-98	17,819.9	1, 2a, 3	100	187	30	46	40	AS System down - high temperature alarm. Restarted
15-May-98	NM	1, 2a, 3	NM	NM	NM	NM	NM	AS System down. SVE blower taken off-line for maintenance.
23-Sep-98	19,088.0	1, 2a, 3	NM	170	26	26	26	AS System not maintaining pressure and flow while perimeter leg is on.
29-Oct-98	19,952.0	1, 2a, 3	NM	165	25	27	27	AS System up. Mechanical timers for Defense and Module zones non-functional
15-Dec-98	21,076.9	1, 2a, 3	NM	155	NM	NM	NM	AS System up. Mechanical timers for Defense and Module zones replaced
02-Feb-99	21,417.5	1, 2a, 3	NM	155	NM	NM	NM	AS System down - high temperature alarm. Annual maintenance. Restarted
08-Mar-99	22,111.2	1, 2a, 3	NM	NM	NM	NM	NM	AS System off for repairs - AS/SVES left off for one month rebound test
15-Apr-99	22,114.5	1, 2a, 3	NM	197	50	50	50	AS System down - new alternate schedule. Repairs made. Restarted
21-Apr-99	22,202.8	1, 2a, 3	NM	195	40	50	50	AS System off for repair of compressor drying towers. Restarted
18-May-99	22,848.3	1, 2a, 3	NM	205	40	58	50	AS System up. AS/SVES left off for one month rebound test
17-Jun-99	22,849.5	1, 2a, 3	NM	165	40	50	50	AS System down from previous month. Reconfigured to 2b. Restarted
16-Jul-99	23,083.8	1, 2b, 3	NM	212	25	30	55	AS System down 4.5 days with High Temp alarm. Restarted
12-Aug-99	23,707.0	1, 2b, 3	NM	210	25	NM	55	AS System down 25 hours. Restart by Knox Air. Shut down for one month
23-Sep-99	23,884.0	1, 2b, 3	NM	175	45	57	32	AS System up. Restarted by Knox Air 9/15/99.
14-Oct-99	24,388.4	1, 2b, 3	NM	188	30	30	NM	AS System up. Defense System pressure gauge broken. Shut down for one month
15-Nov-99	24,391.0	1,2c,3	NM	185	36	33	NM	AS System down from previous month. Reconfigured to 2c. Restarted
28-Dec-99	25,402.7	1,2c,3	NM	NM	NM	NM	NM	AS System down since 12/27/99. Remained off permanently.

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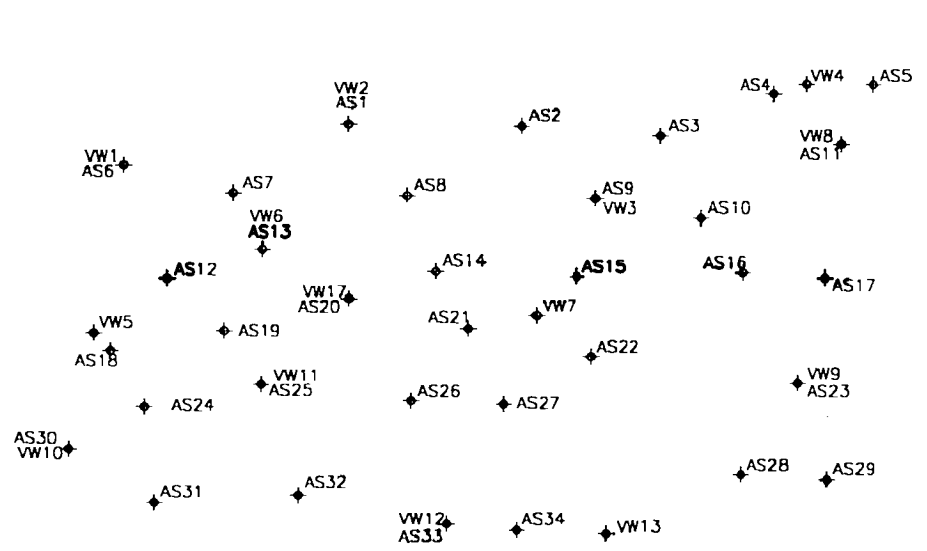
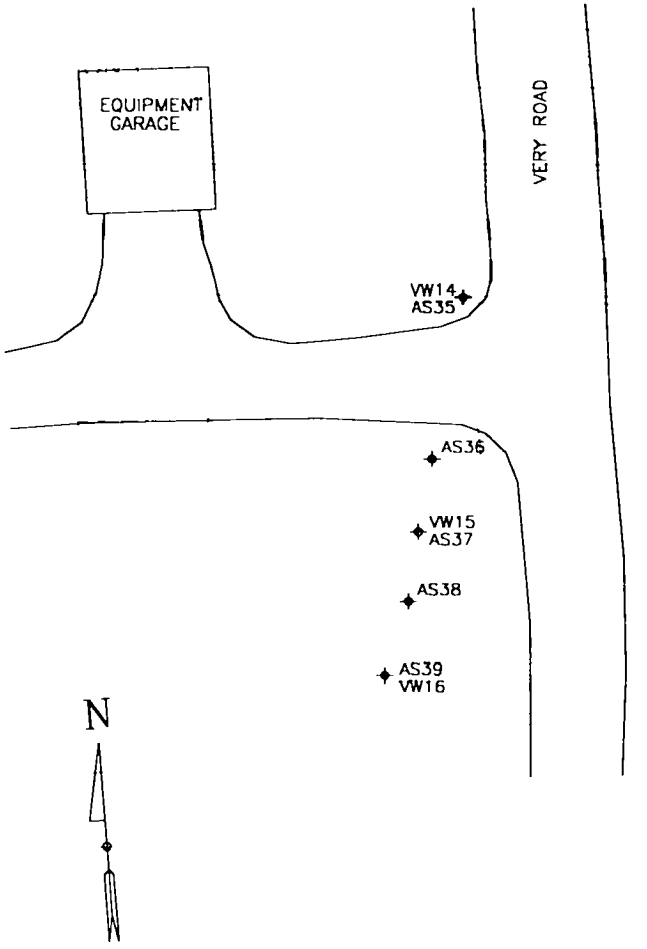
* Configuration 1 consists of all Perimeter AS wells : 1, 2, 3, 4, 5, 6, 12, 18,24, 30, 31, 32, 33 & 34.
Configuration 2 consists of three subgroups of the Module AS wells.
2a consists of AS7, 10, 13, 14, 19, 22, 26 & 29.
2b consists of AS8, 15, 20, 21, 22, 23, 25, 27 & 28.
2c consists of AS9, 11, 13, 16, 17, 27 & 28.
2+ consists of AS9, 11, 14, 20, 22, 23 & 27
NOTE: Some of the wells in these subgroups overlaped and could be reconfigured as necessary for optimization.
Configuration 3 consists of all Defense AS wells : 35,36,37,38&39.

\+ Mobile group = AS9,11,14,20,22,23,25&27.

NM not measured





NOTES 1) ALL INFORMATION ON THIS DRAWING IS APPROXIMATE.

REV.	DATE:	BY:	DESCRIPTION:	CHK'D.	APP'D.

ENVIROGEN
New Solutions to Hazardous Waste Problems

DRAWN BY: DAF
SCALE: APPR. 1" = 30
CHK'D BY: GTM
DATE: 1/9/02

TITLE:
SITE PLAN WITH DECOMMISSIONED SVE/AS WELL LOCATIONS
FIGURE 1

ENVIROGEN PROJECT NO. 10781

SITE: MACHIAS GRAVEL PIT
MACHIAS, N.Y.

SIZE: A
DRAWING NO. 10781-1
REV.

FIGURE 2A

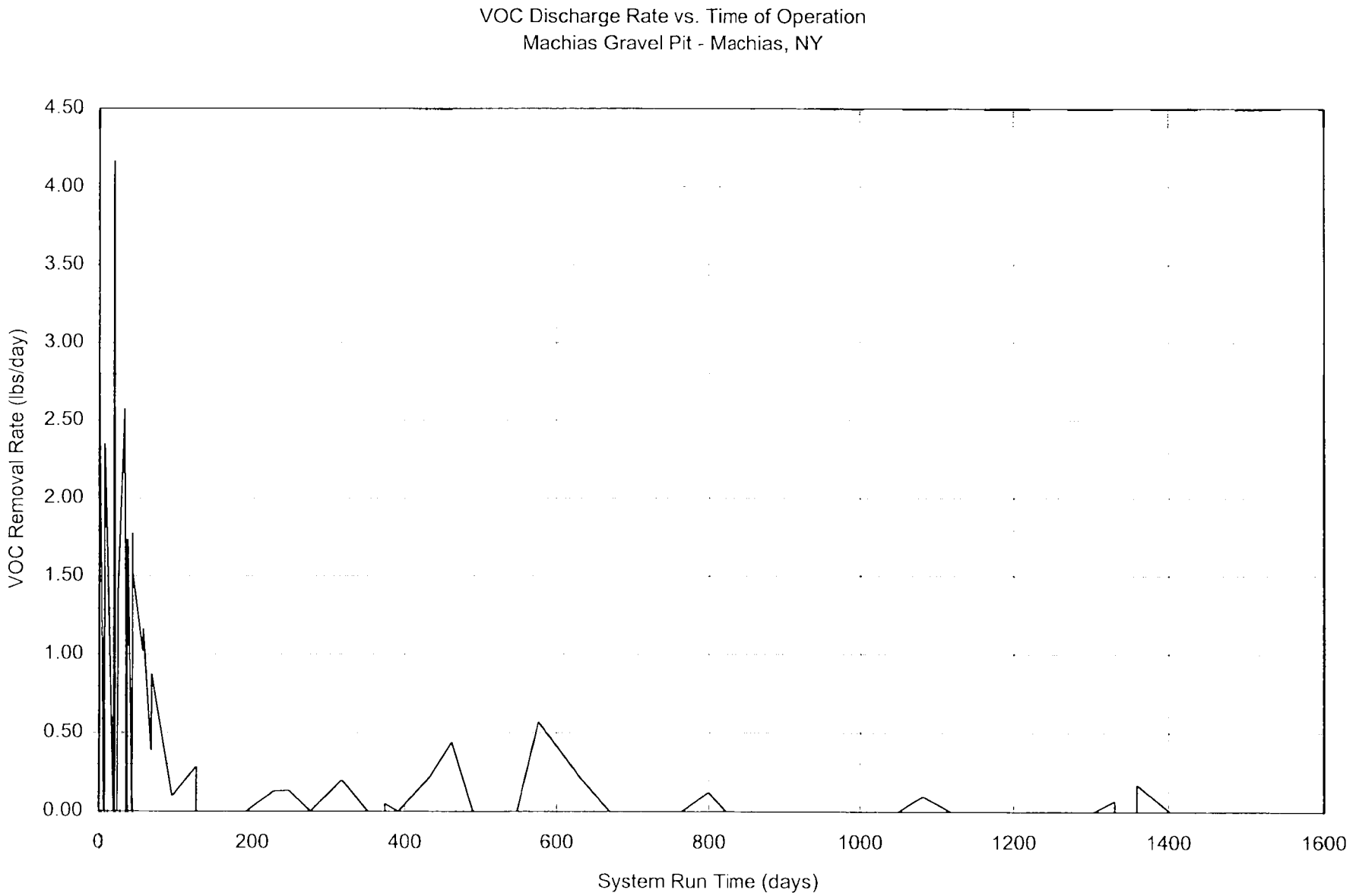
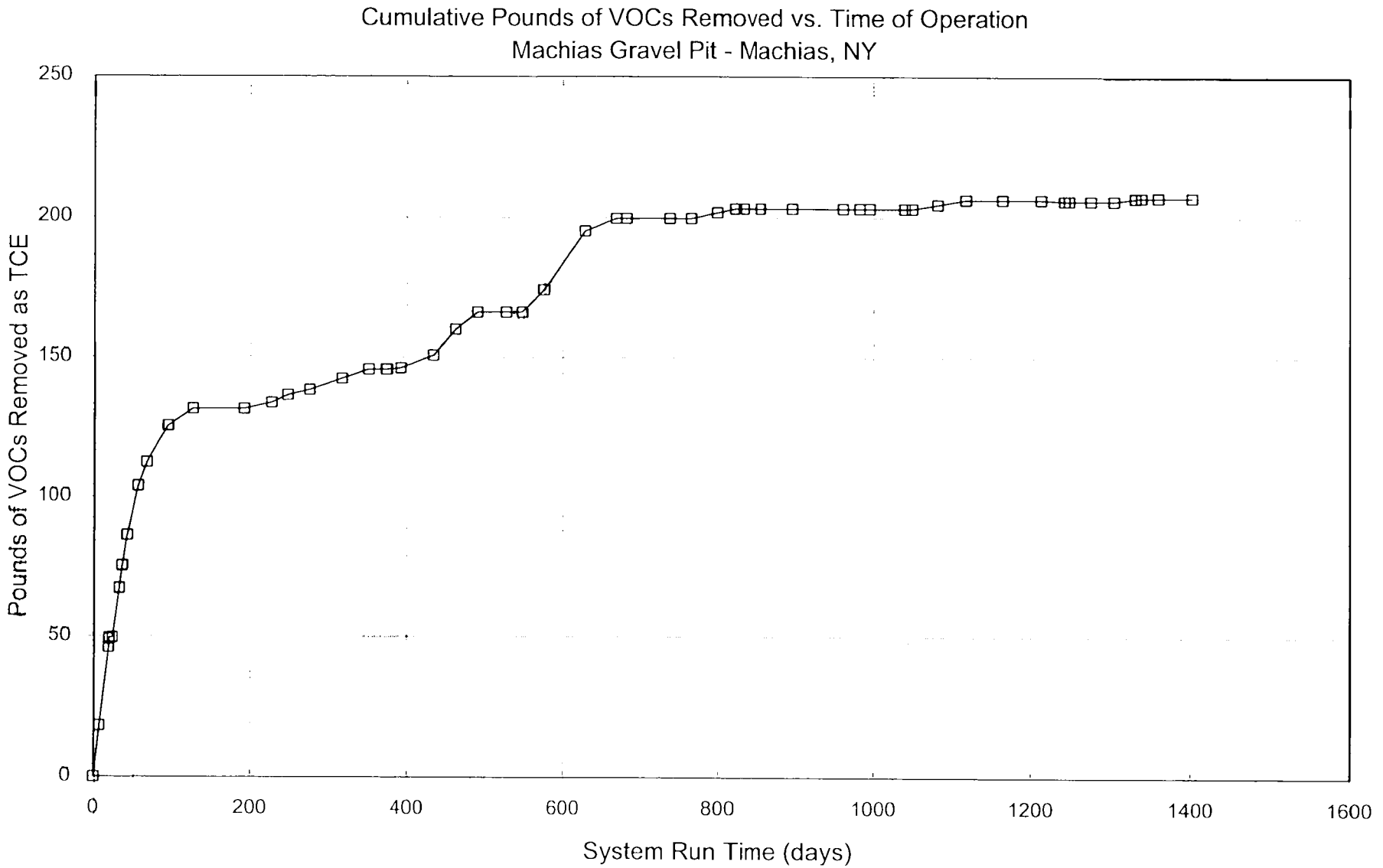

VOC Discharge Rate vs. Time of Operation
Machias Gravel Pit - Machias, NY
VOC Removal Rate (lbs/day)
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
200
400
600
800
1000
1200
1400
1600
System Run Time (days)

FIGURE 2B


Cumulative Pounds of VOCs Removed vs. Time of Operation
Machias Gravel Pit - Machias, NY
Pounds of VOCs Removed as TCE
250
200
150
100
50
0
0
200
400
600
800
1000
1200
1400
1600
System Run Time (days)

APPENDIX A

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

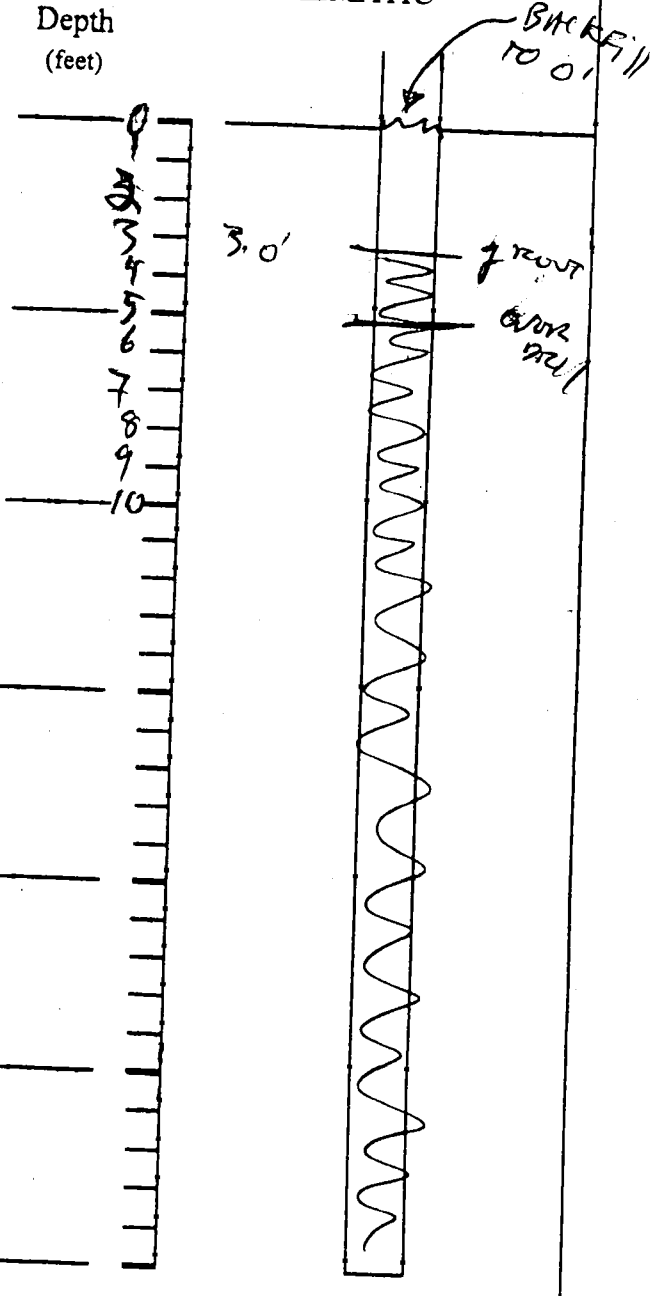
Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 29
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-29-01

overdrilled 11-01-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	1 OF 1
For each batch record:	
Quantity of water used (gal.)	36
Quantity of cement used (lbs.)	~~100~~ 185 37C
Cement type	TYPE 1
Quantity of bentonite used (lbs.)	5-8
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	55
Volume of grout used (gal.)	8

WELL SCHEMATIC*



COMMENTS: FILL W/ GROUT TILL WELL OVER FLOWED - TOPPED OVER WELL W/ GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

ntractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

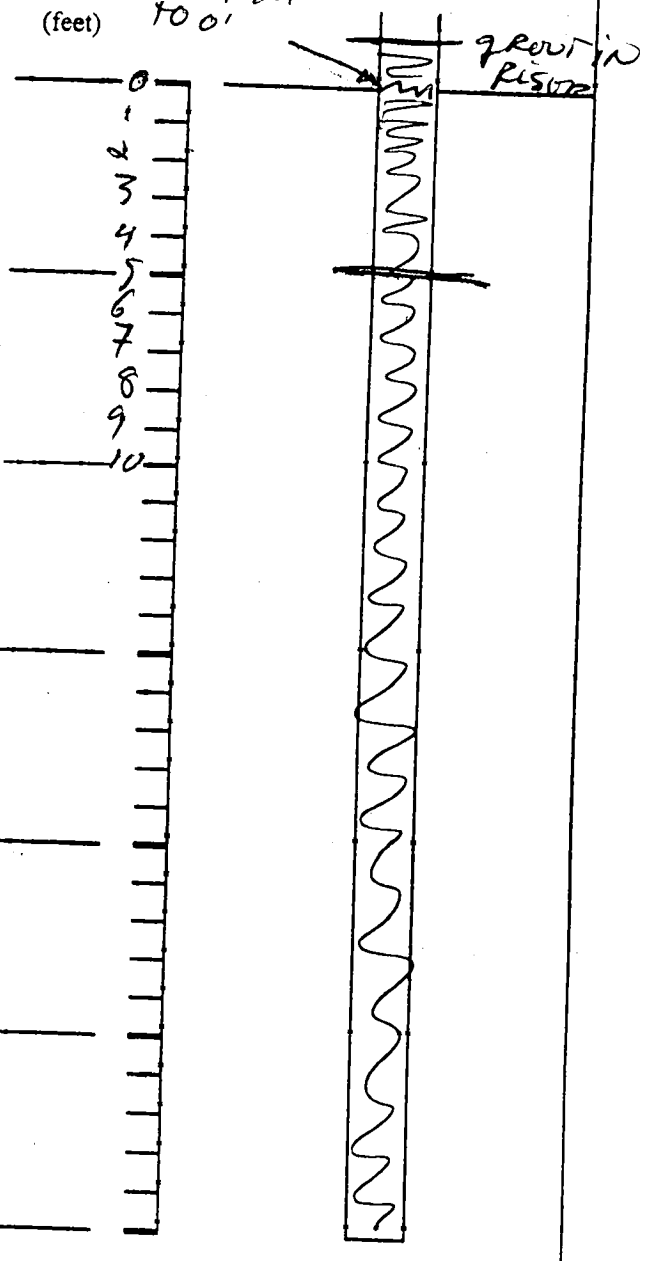
Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 23
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-29-01

OVERDRILL 11-1-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5FT
Drilling Method(s)	H.S.A
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	1 OF 1
For each batch record:	
Quantity of water used (gal.)	36
Quantity of cement used (lbs.)	~~376~~
Cement type	TYPE I
Quantity of bentonite used (lbs.)	5-8
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	55
Volume of grout used (gal.)	6

WELL SCHEMATIC*



COMMENTS: FILLED W/ GROUT TILL WELL OVER FLOWED - TOPPED OFF WITH GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

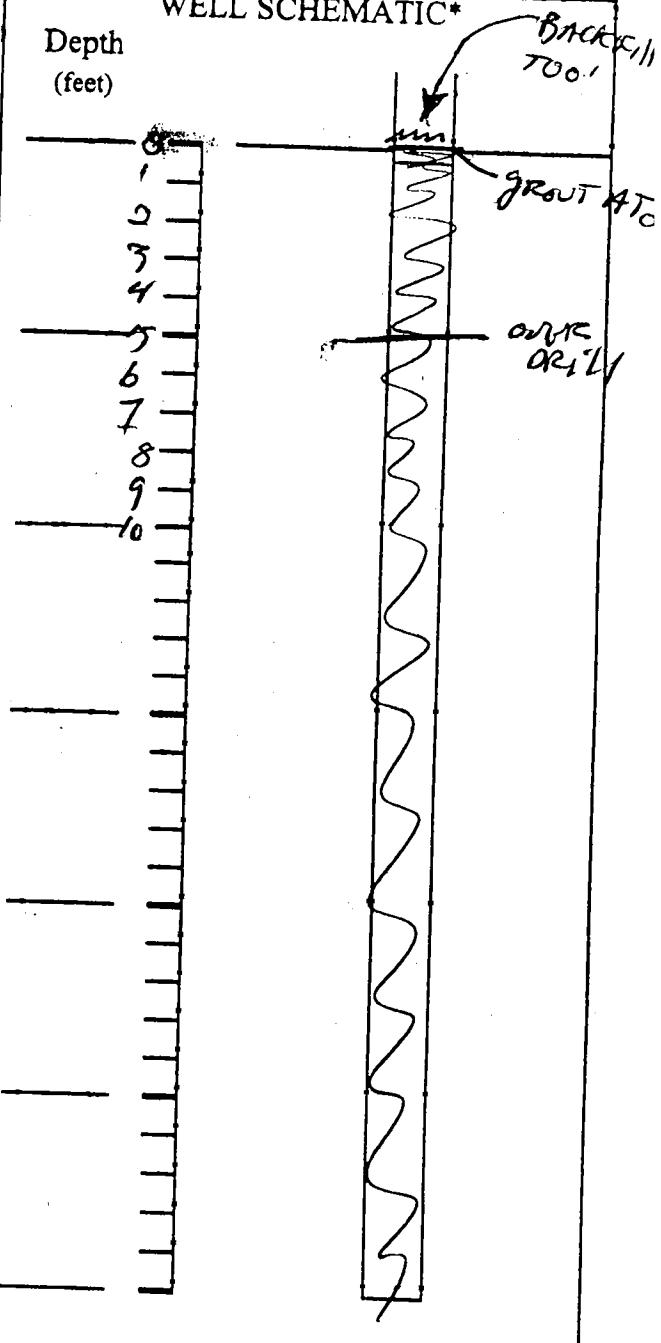
Site Name: MACHIAS GRAVEL PIT	Well I.D.: VW 9
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-29-01

OVERDRILL 11-1-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	1 OF 1
For each batch record:	
Quantity of water used (gal.)	36
Quantity of cement used (lbs.)	~~376~~
Cement type	TYPE I
Quantity of bentonite used (lbs.)	5=8
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	55
Volume of grout used (gal.)	15

WELL SCHEMATIC*



COMMENTS: FILLED WELL W/ GROUT TILL WELL OVER FLOWED - TOPPED OFF W/ GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

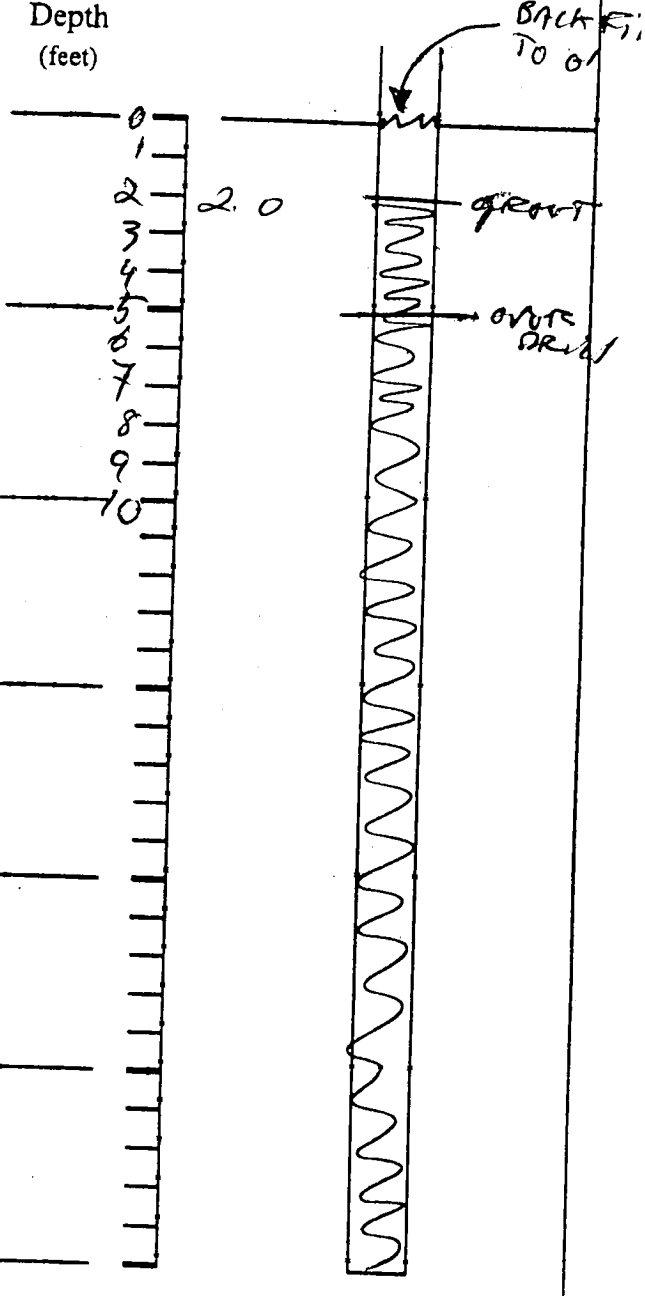
Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 17
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-29-01

OVER DRILL 11-1-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	HSA.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	1 OF 1
For each batch record:	
Quantity of water used (gal.)	36
Quantity of cement used (lbs.)	100
Cement type	TYPE I
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	55
Volume of grout used (gal.)	6

WELL SCHEMATIC*



COMMENTS: FILLED WELL W/ grout. TILL OVERFLOWED - TOPPED OFF WELL W/ grout

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

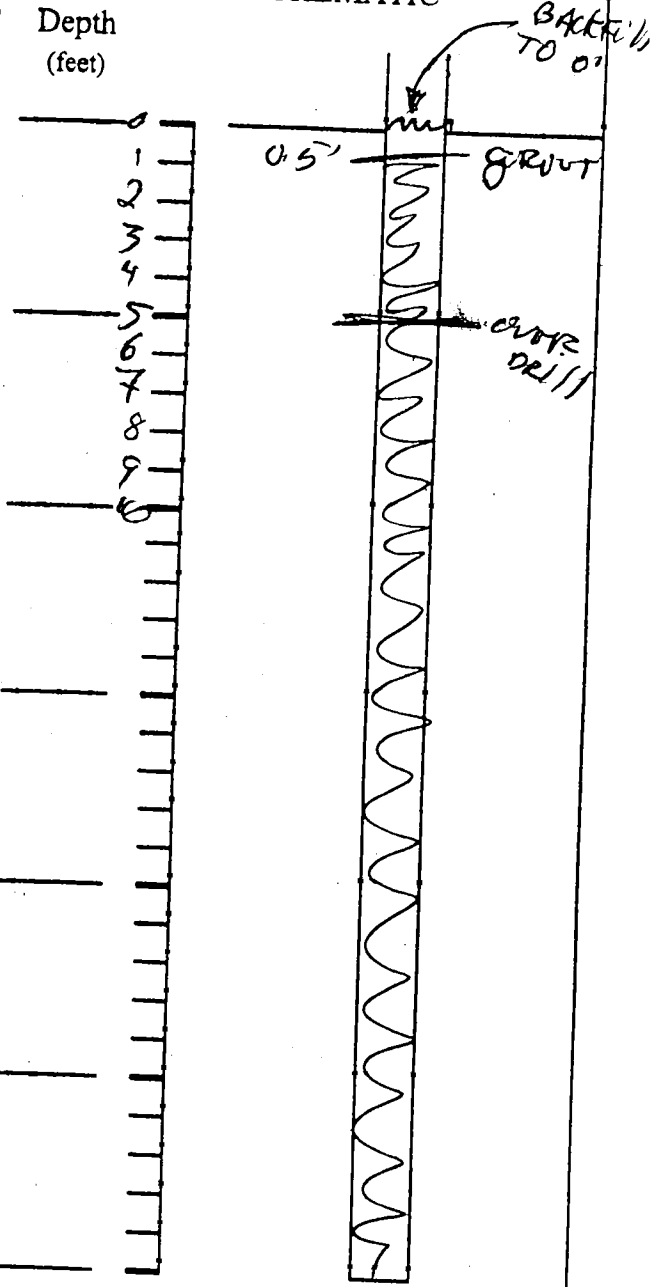
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 16
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-29-01 OVER DRILL 11-1-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25"
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	1 OF 1
For each batch record:	
Quantity of water used (gal.)	36
Quantity of cement used (lbs.)	100
Cement type	TYPE 1
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	55
Volume of grout used (gal.)	6

WELL SCHEMATIC*



COMMENTS: FILLED WELL W/ GROUT DRILL OVER FLUSH-TOPPED WELL W/ GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

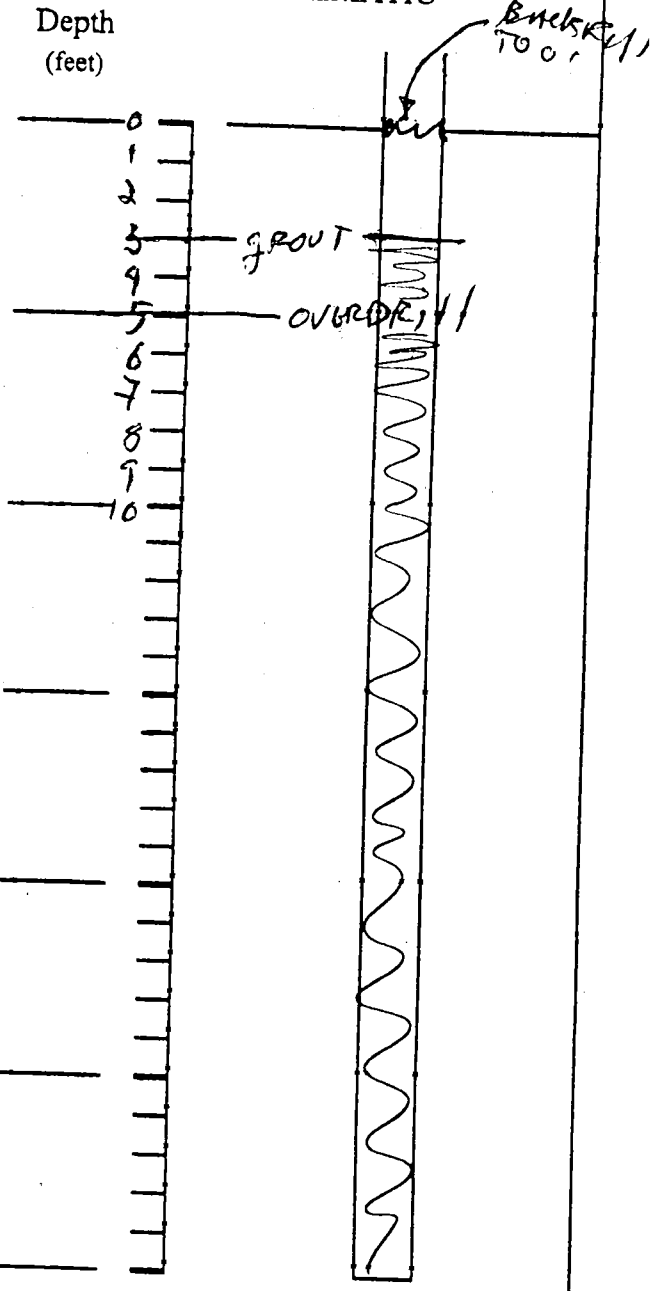
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 28
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-24-01 OVERDRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	36
Quantity of cement used (lbs.)	100
Cement type	Type I
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	55
Volume of grout used (gal.)	7

WELL SCHEMATIC*



COMMENTS: OBSTRUCTION IN WELL COULDN'T PUT PIPE DOWN TO FILL WELL POURED IN THROUGH A 5 gal BUCKET TILL WELL OVER FLOWED W/ GRAVEL

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

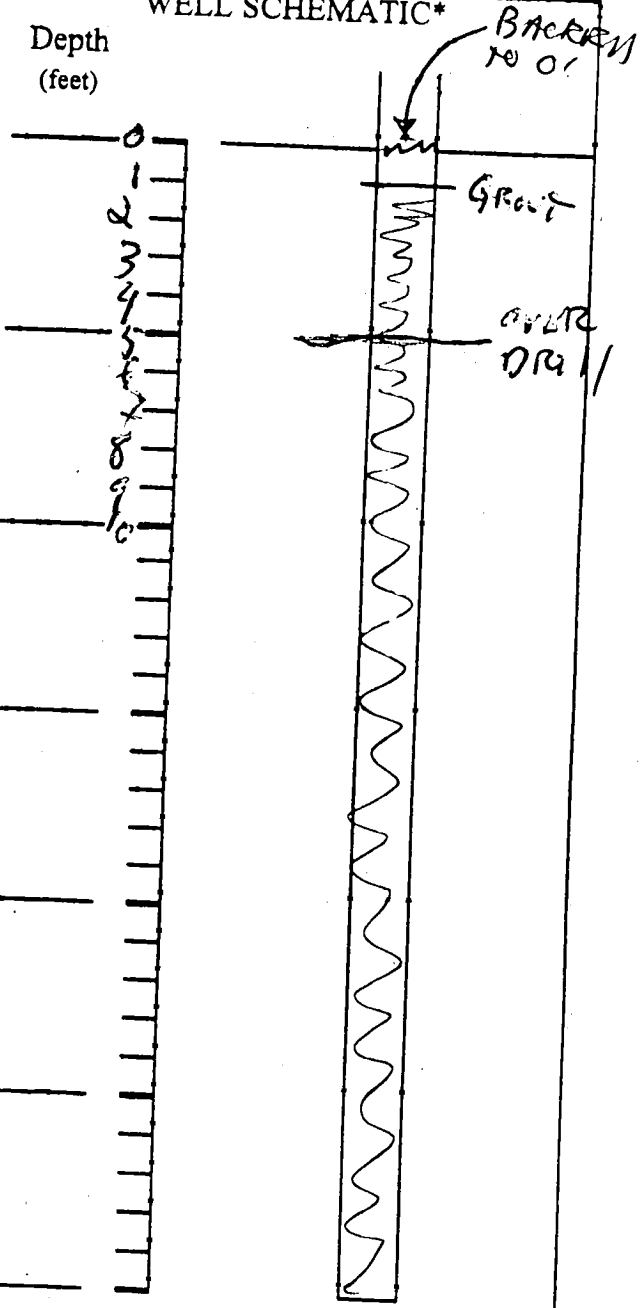
Site Name: MACHIAS GRAVEL PIT	Well I.D.: VW 13
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-29-01

OVERDRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	HSA.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	2
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	100
Cement type	TYPE I
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	415
Volume of grout used (gal.)	15

WELL SCHEMATIC*



COMMENTS: FILLED WITH GROUT TILL WELL OVERFLOWED - TOP OF WITH GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

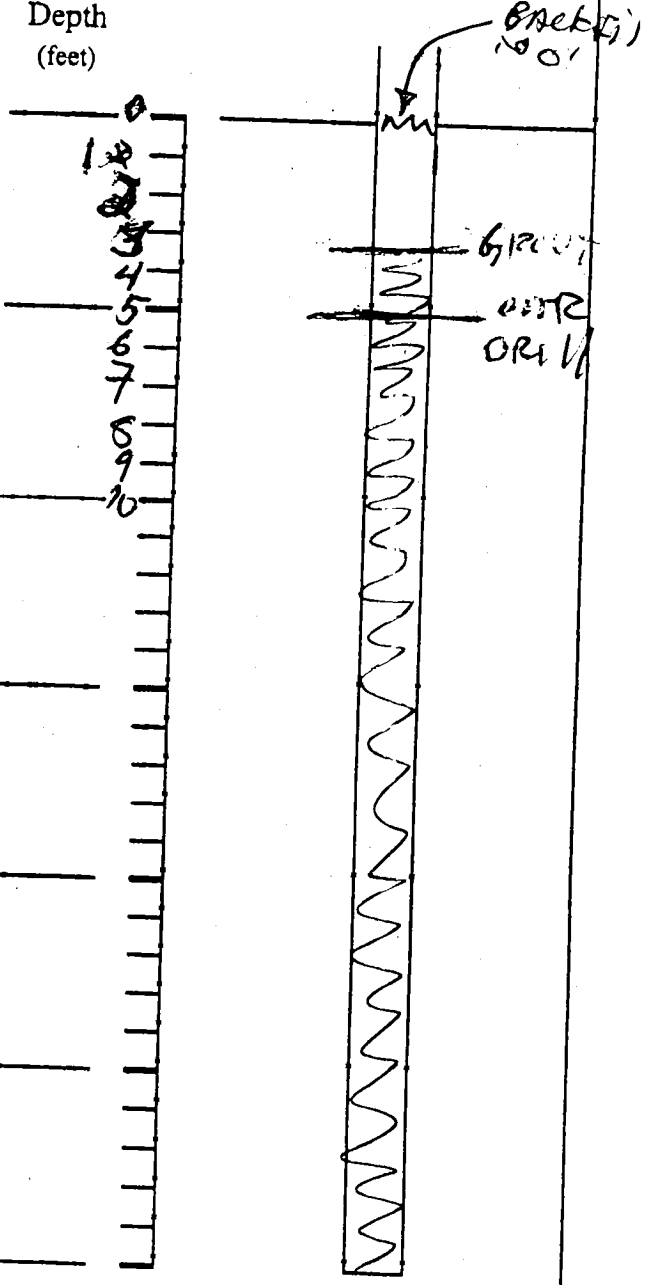
Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 3-1
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-29-01

OVERDRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A
Borehole Dia. (in.)	4 1.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	2
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	100
Cement type	TYPE I
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7

WELL SCHEMATIC*



COMMENTS: Filled well w/grout Till
Over Flush-topped off w/ grout

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

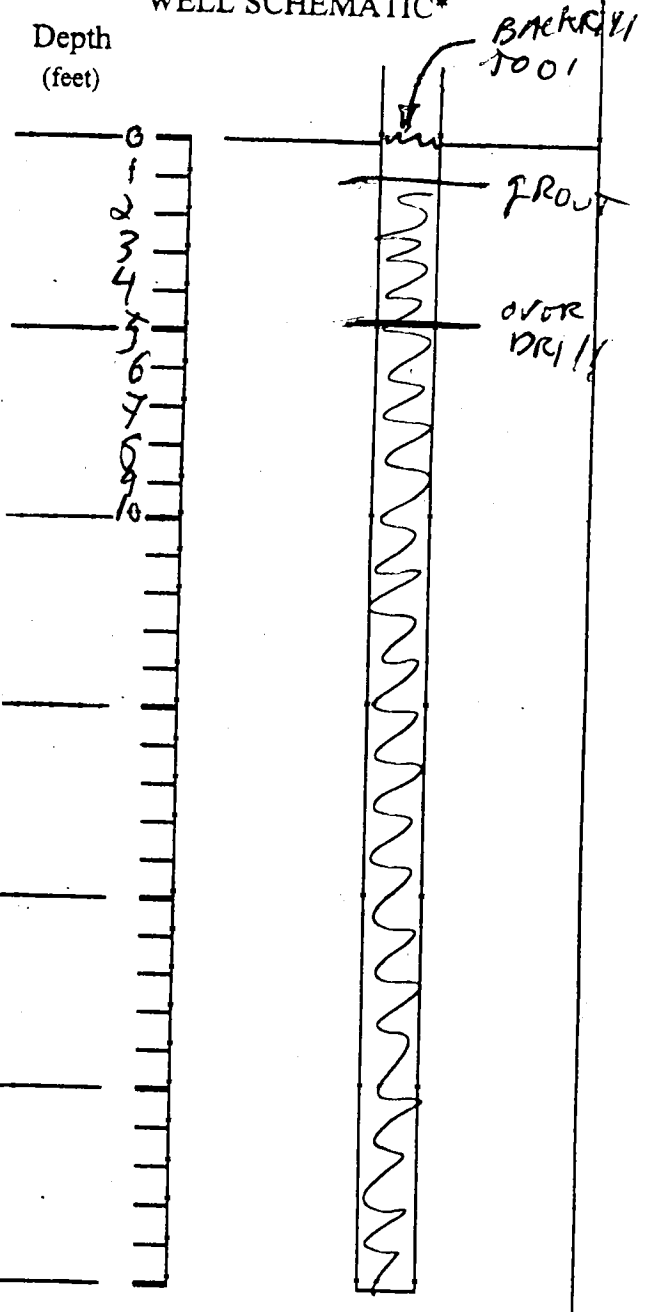
Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 33
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-24-01

OVER DRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5FT
Drilling Method(s)	HSA.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	2
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	100
Cement type	TYPE 1
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	6

WELL SCHEMATIC*



COMMENTS: FILLED W/ grout Fill with over flowed & topped of W/ grout

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

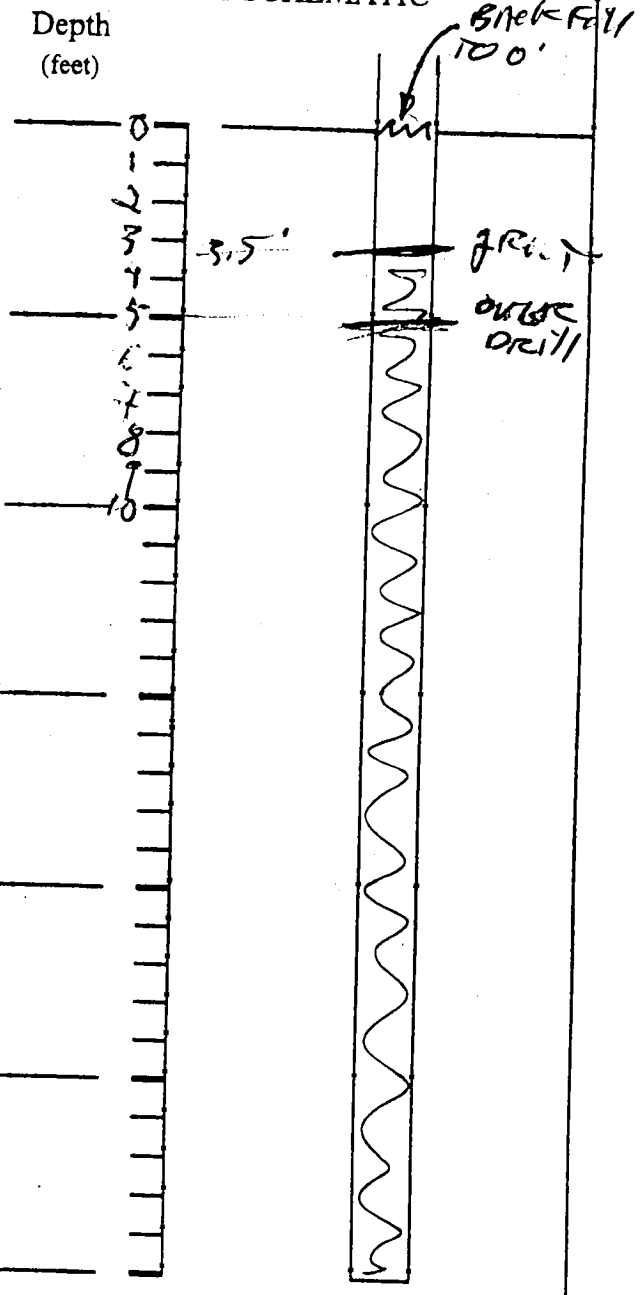
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: VW 12
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-29-01 OVERDRILL 10-30-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.SA.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	2
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	100
Cement type	TYPE I
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	15

WELL SCHEMATIC*



COMMENTS: FILLED WELL WITH GRAVEL TILL OVER FLUSH - TOPPED OFF WELL W/ GRAVEL

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

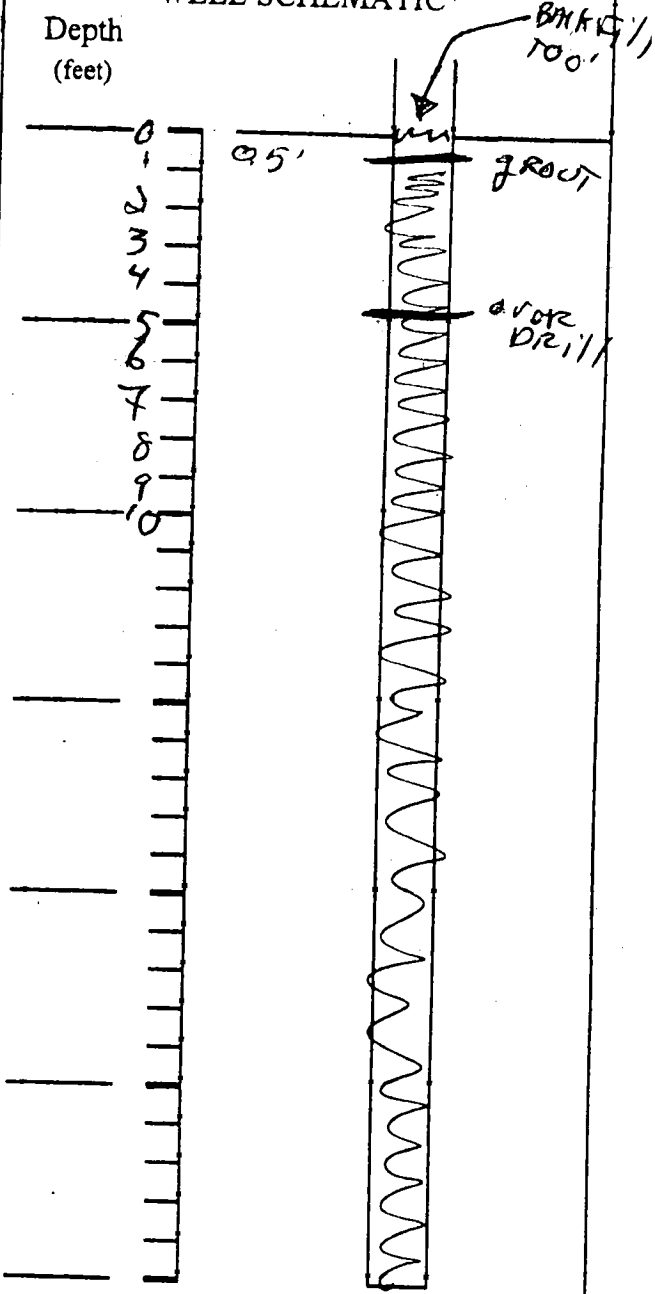
Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 27
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-29-01

OVERDRILL 11-1-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	21.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	3
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	100
Cement type	TYPE I
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7

WELL SCHEMATIC*



COMMENTS: FILLED HOLE W/ GRAVEL TILL
OVER FLOWED - REPLACED OFF W/ GRAVEL

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

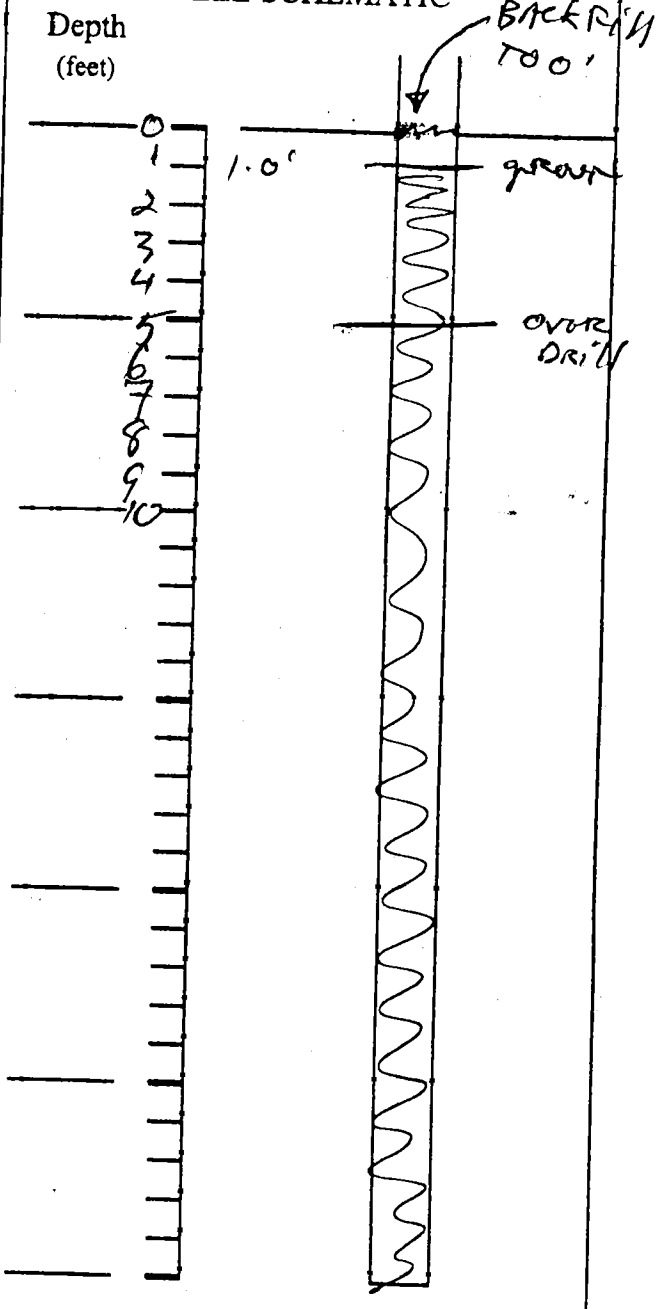
Site Name: MACHIAS GRAVEL PIT	Well I.D.: A-21
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-29-01

OVERDRILL 11-1-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	3
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	100
Cement type	TYPE I
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	6

WELL SCHEMATIC*



COMMENTS: FILL WELL W/ GROUT TILL OVOR PLANN- TOPPED OFF WELL W/ GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

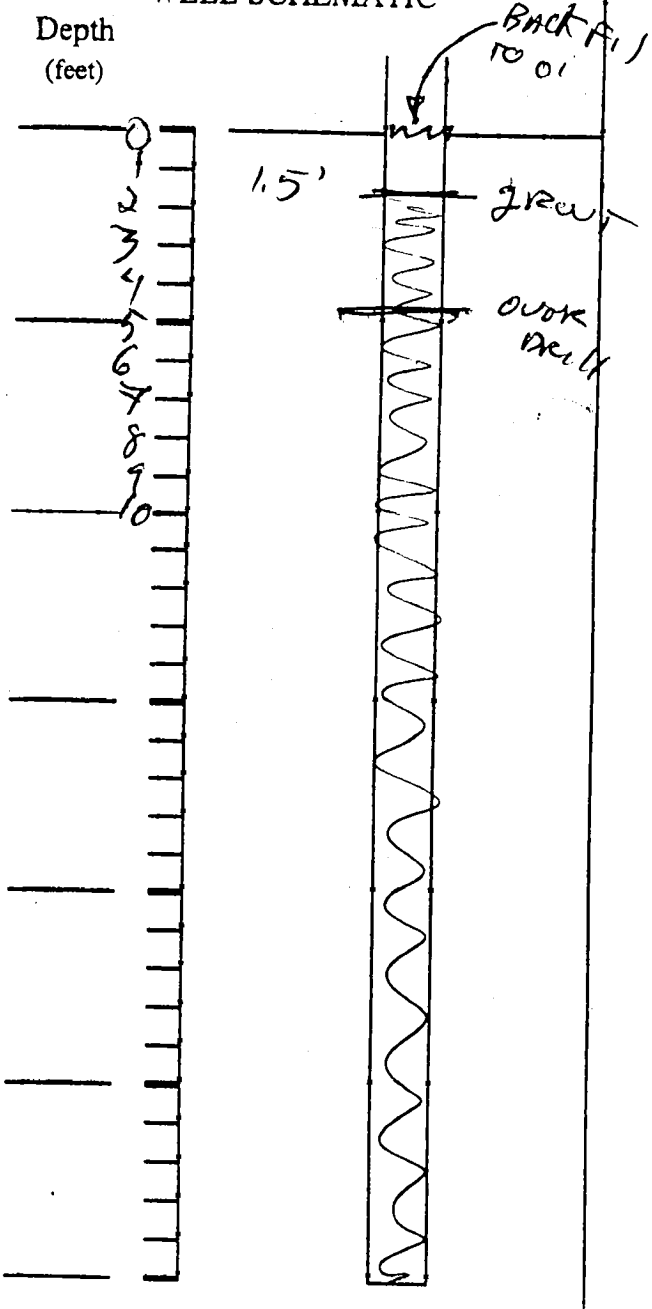
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 26
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-29-01
	OVER DRILL 11-1-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	3
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	100
Cement type	TYPE I
Quantity of bentonite used (lbs.)	15
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7

WELL SCHEMATIC*



COMMENTS: FILL WELL W/ GROUT TO OVER FLOWED - TOPPED OFF W/ GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

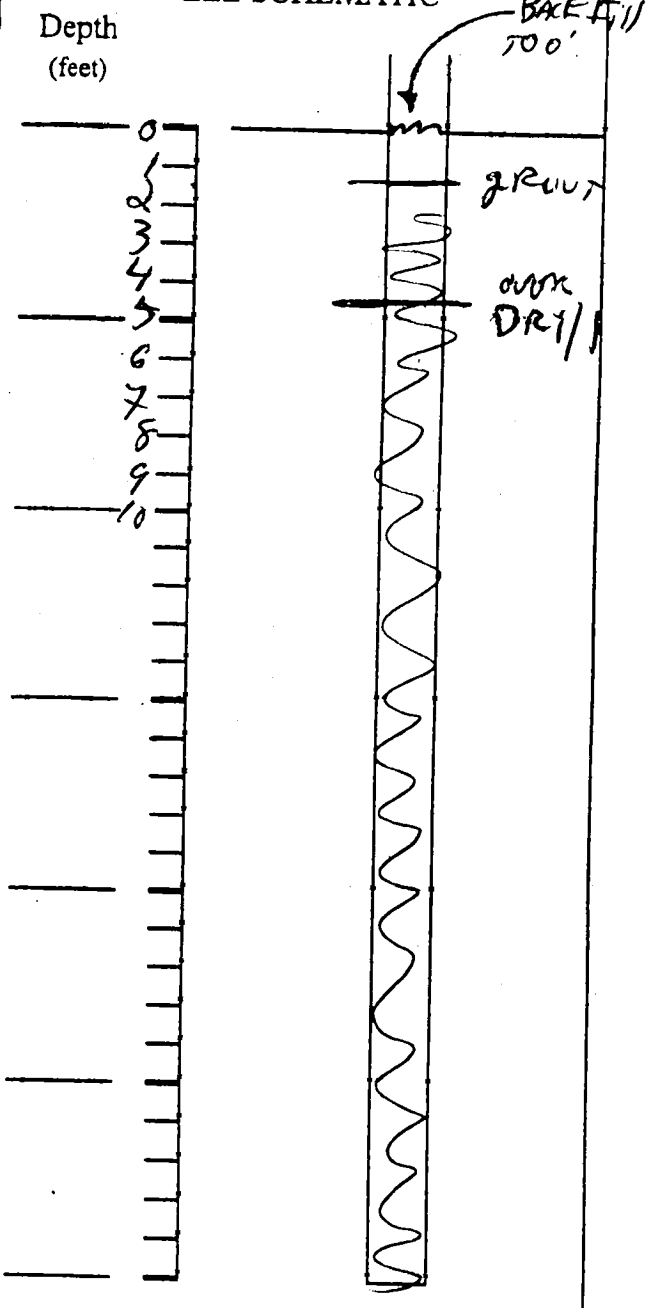
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: A.S 3A
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-29-01 OVER DRY 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4 1/2 5
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	3
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	100
Cement type	TYPE I
Quantity of bentonite used (lbs.)	15
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7

WELL SCHEMATIC*



COMMENTS: FILLED W/ GROUT TILL WELL OVER FLOWED - TOPPED OFF WELL W/MORE GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

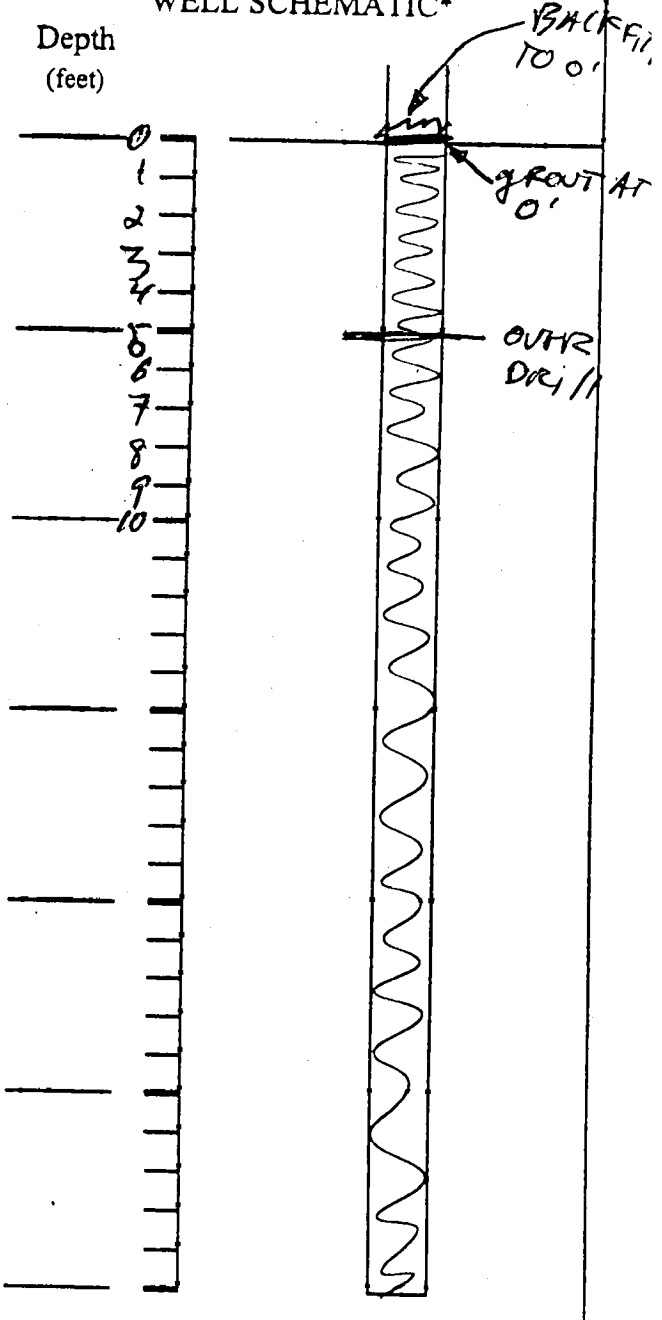
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: VW 11
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-29-01 OVERDRILL 11-1-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	3
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	100
Cement type	type 1
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	12

WELL SCHEMATIC*



COMMENTS: Fill w/grout till well over flown - topped off w/grout

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

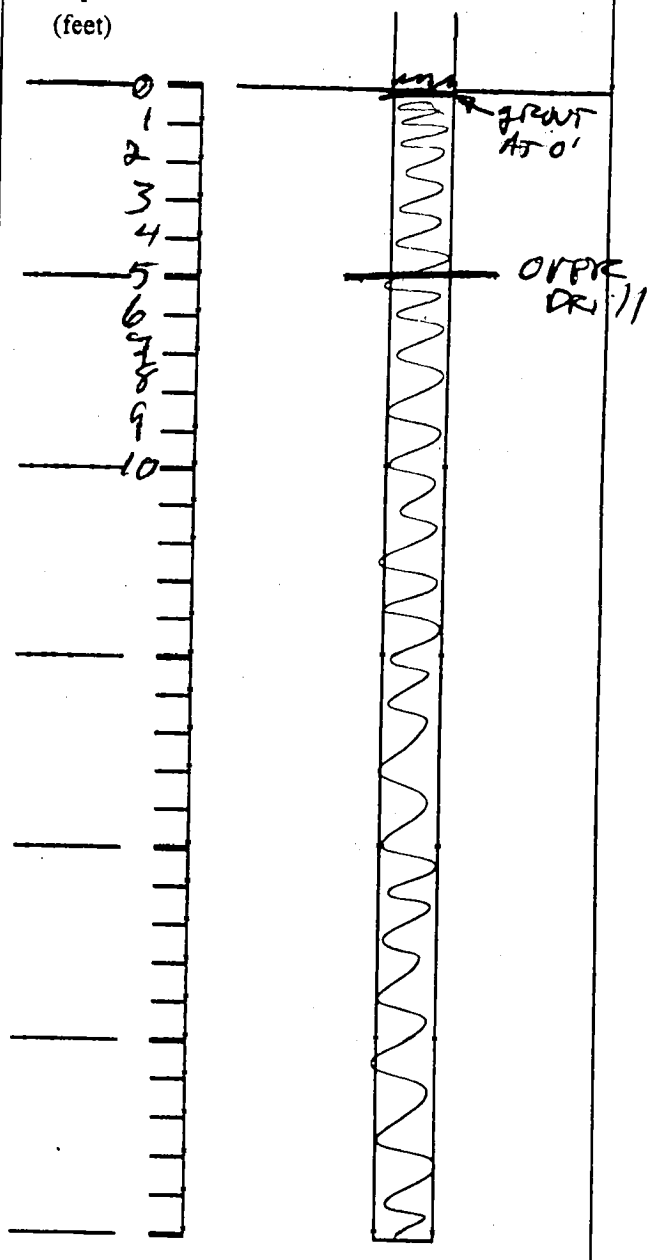
Site Name: MACHIAS GRAVEL PIT	Well I.D.: ~~MW~~ MW-4 AS27
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-29-01

OVERDRILL 11-1-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	3
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	100
Cement type	TYPE I
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7

WELL SCHEMATIC*



COMMENTS: FILLED well w/grout 7'11 OVERFLOWED / topped off w/grout

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

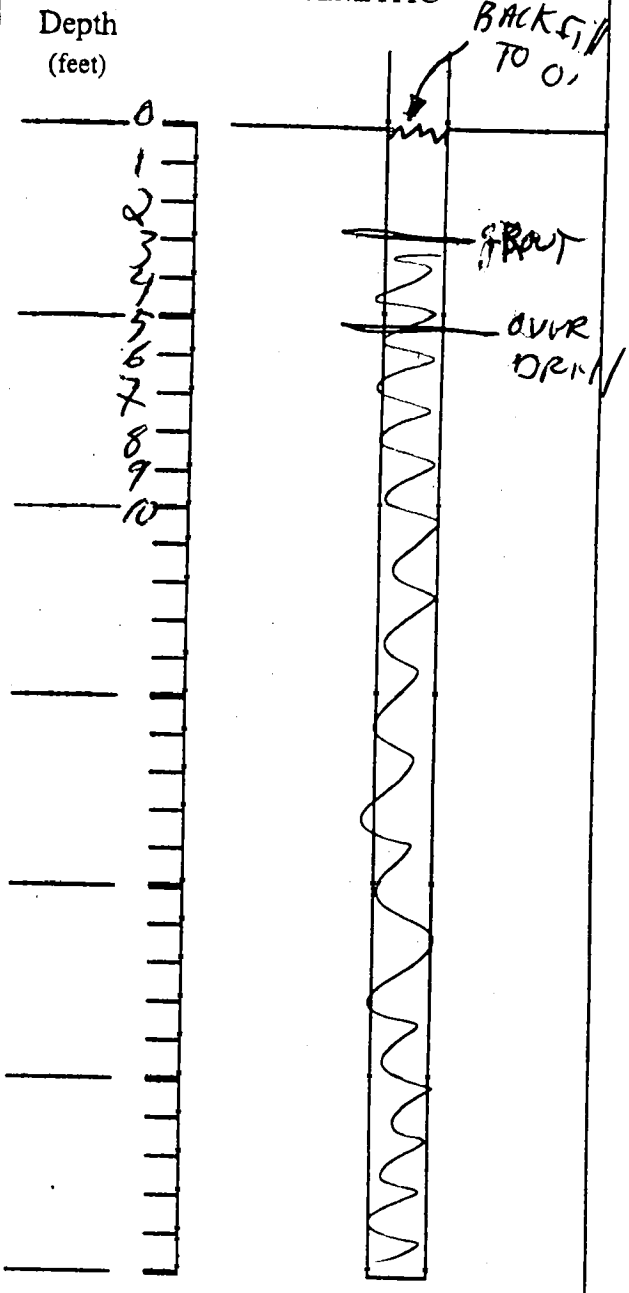
Site Name: MACHIAS GRAVEL PIT	Well I.D.: A S 3 1
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01

OVER DRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	4
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	25
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7 EST.

WELL SCHEMATIC*



COMMENTS: FILLED WELL TILL OVER FLOWED W/GROUT
TOP OFF WELL W/GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

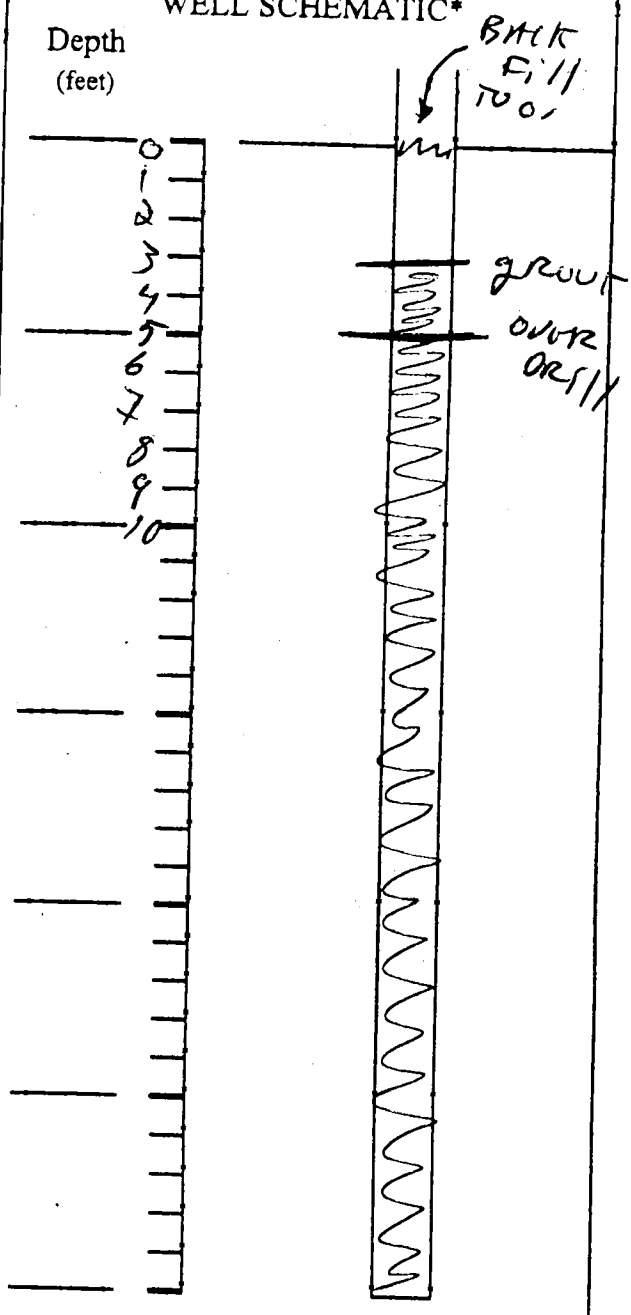
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 30
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01 OVER DRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	2
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	5-LBS
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7.5

WELL SCHEMATIC*



COMMENTS: FILLED TILL WELL OVERFLOWED W/ GROUT
TOPPED OFF W/ GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

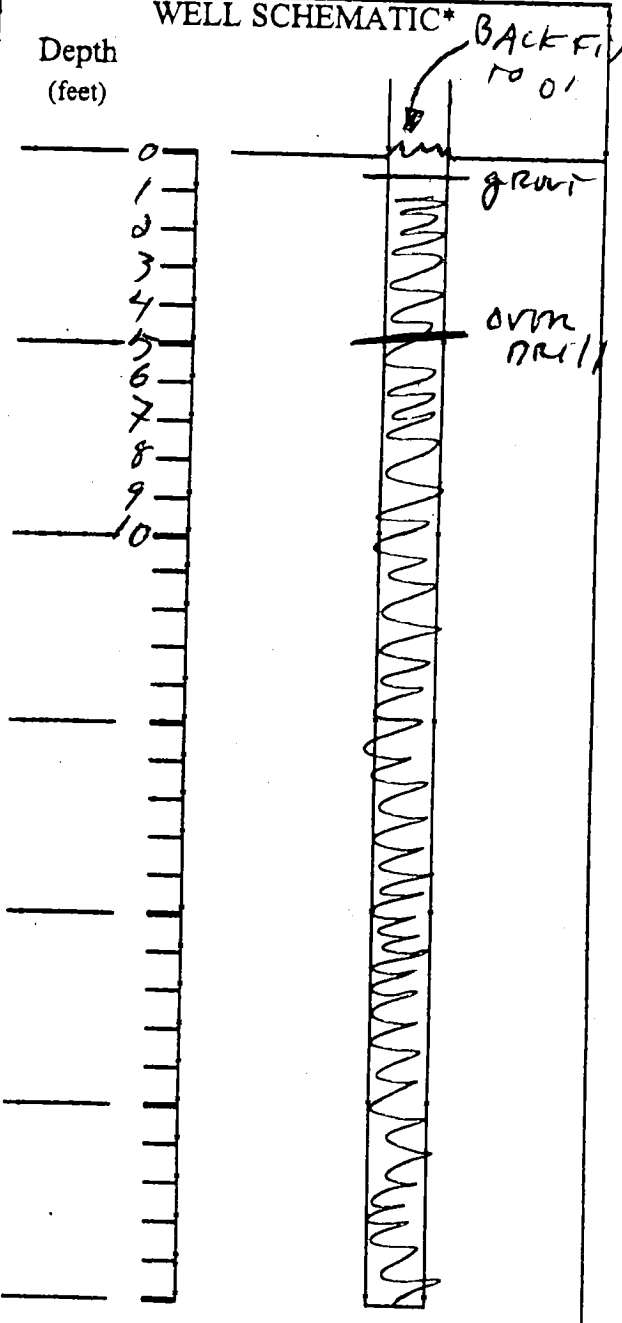
Site Name: MACHIAS GRAVEL PIT	Well I.D.: VW-10
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01

OVERDRILLED 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	4
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	115
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	13-14 EST

WELL SCHEMATIC*



COMMENTS: FILLED TILL WELL OVERFLOWED W/GROUT TOPPED OFF W/GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

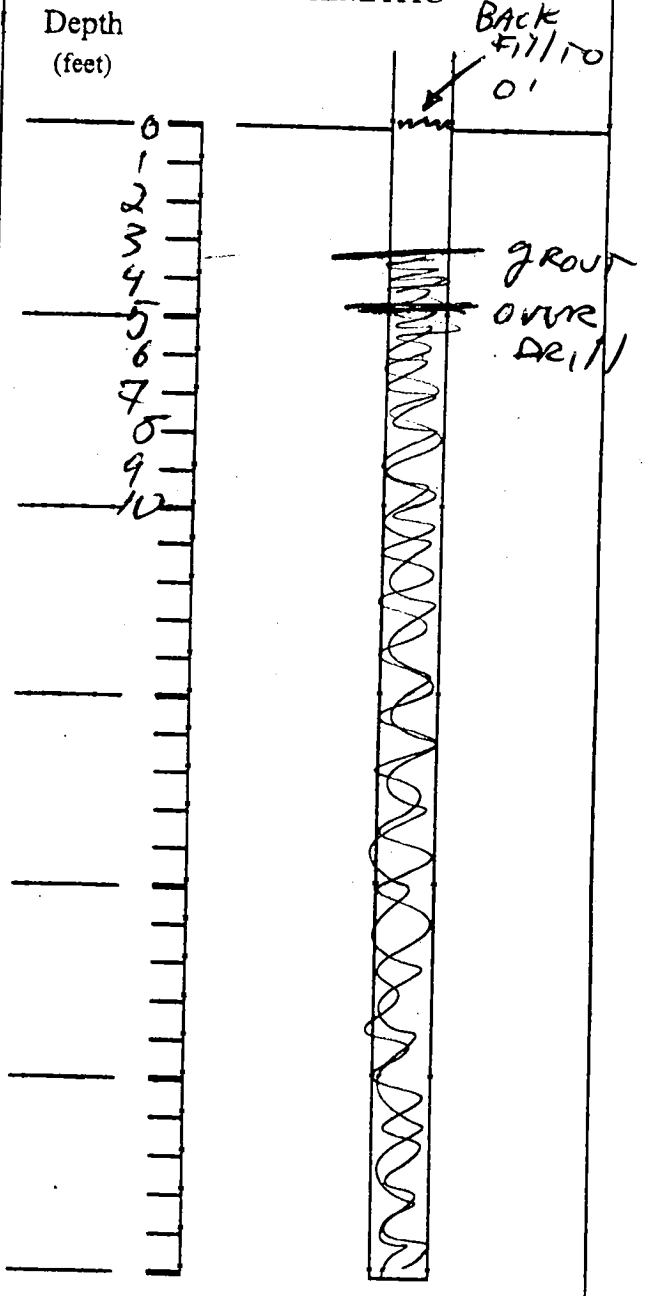
Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS-24
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01

OVER DRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25"
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	4
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	Type I
Quantity of bentonite used (lbs.)	15
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7 EST

WELL SCHEMATIC*



COMMENTS: FILLED TILL WELL OVER FLOWED W/ GROUT - TOPPED OFF W/ MORE GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

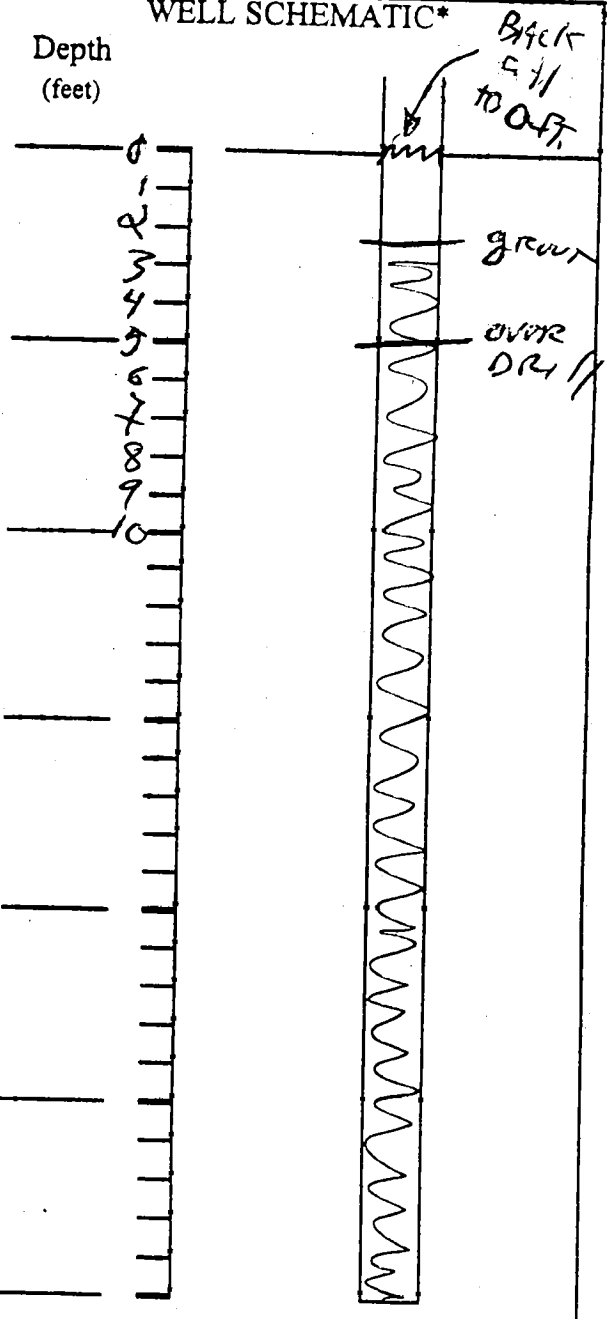
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: VW 5
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01 AND DRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	4 & 5
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	15
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	EST

WELL SCHEMATIC*



COMMENTS: filled well till over flowed w/ grout - 10 gal from batch 4 - all of batch 5 topped off well w/ grout - replaced [illegible] JL

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

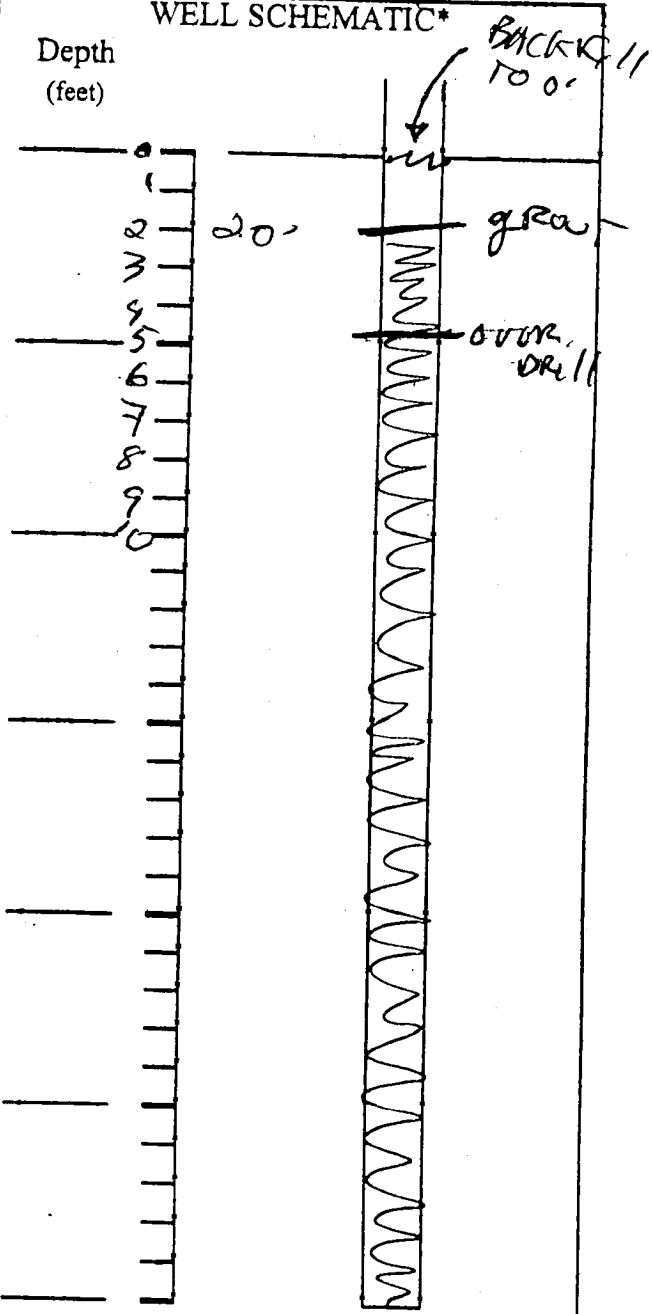
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 19
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01 OVER DRILL 11-1-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	6
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	45
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7 EST

WELL SCHEMATIC*



COMMENTS: FILLED FILL WELL OVERFLOWED W/ GROUT - TOPPED OFF W/ GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

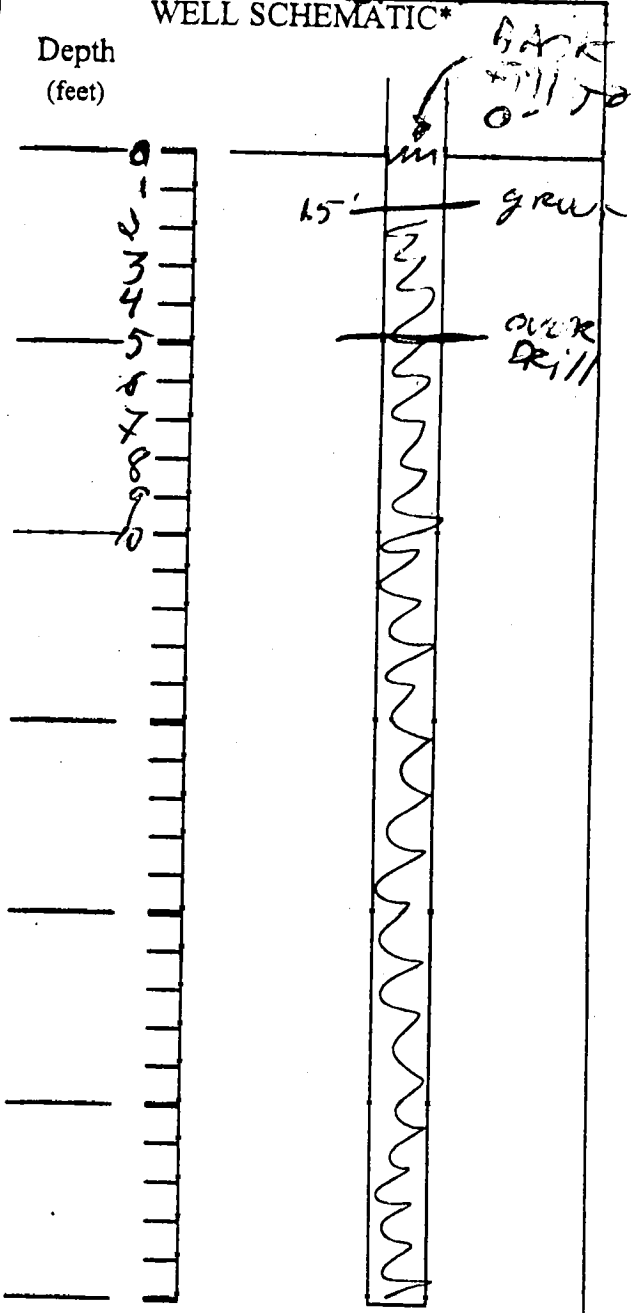
Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 10
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01

OVER DRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	6
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	75
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	EST

WELL SCHEMATIC*



COMMENTS: FILLED WELL TILL OVER FLOWED W/GROUT. TOPPED OFF W/ GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

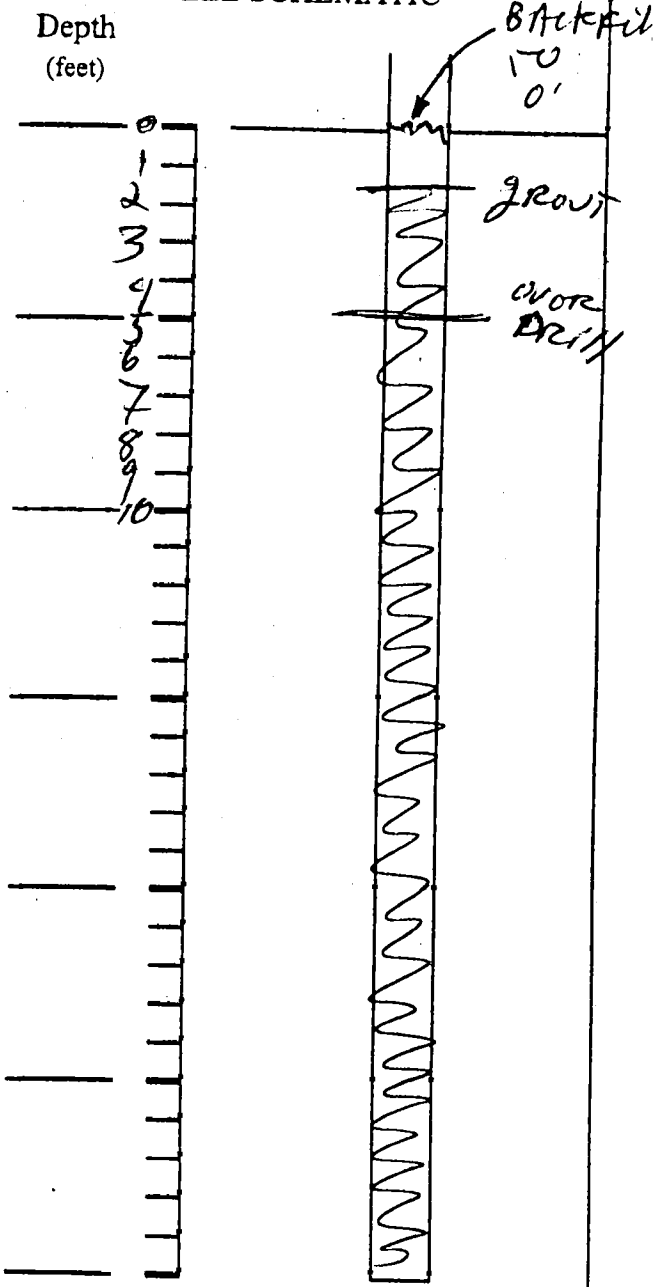
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 6
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01
	OVERDRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	HSA.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	6
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	Type I
Quantity of bentonite used (lbs.)	15
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7 YET

WELL SCHEMATIC*



COMMENTS: FILLED WITH TILL OVER FLOWED W/GROUT TOPPED OFF W/GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

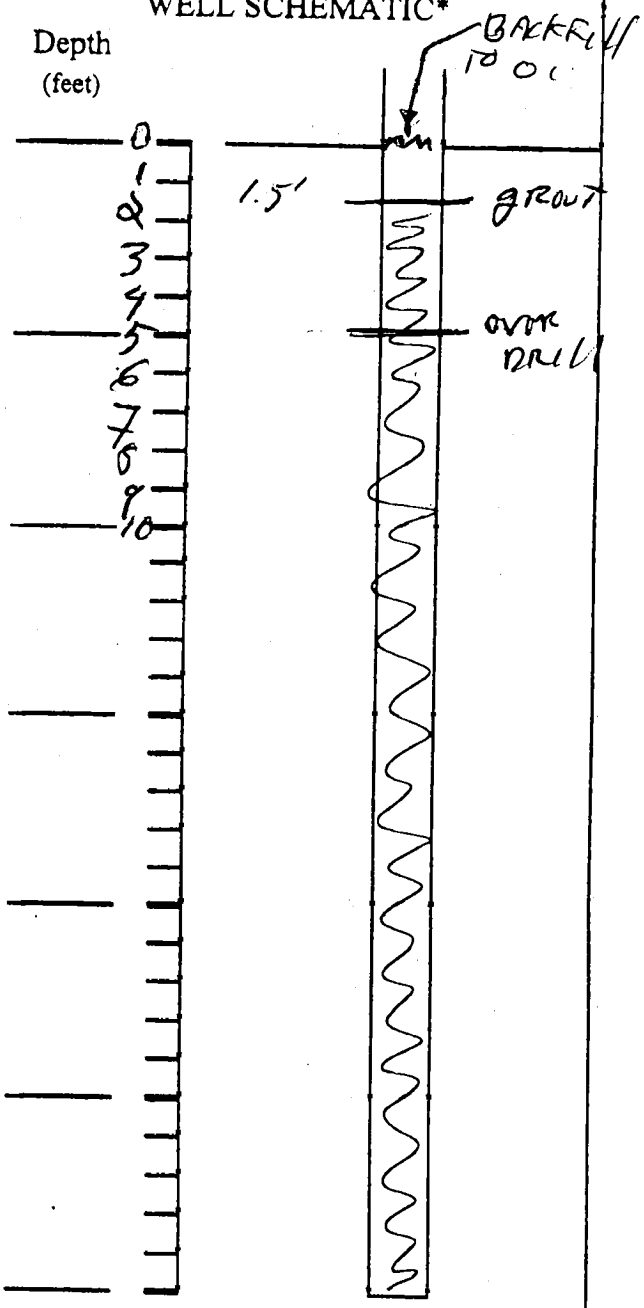
Site Name: MACHIAS GRAVEL PIT	Well I.D.: VW 1
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01

OVR DRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	8.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	6
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	15
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	A-BEST

WELL SCHEMATIC*



COMMENTS: FILLED TILL WELL OVER FLOWED W/GROUT - TOPPED OF WELL W/GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

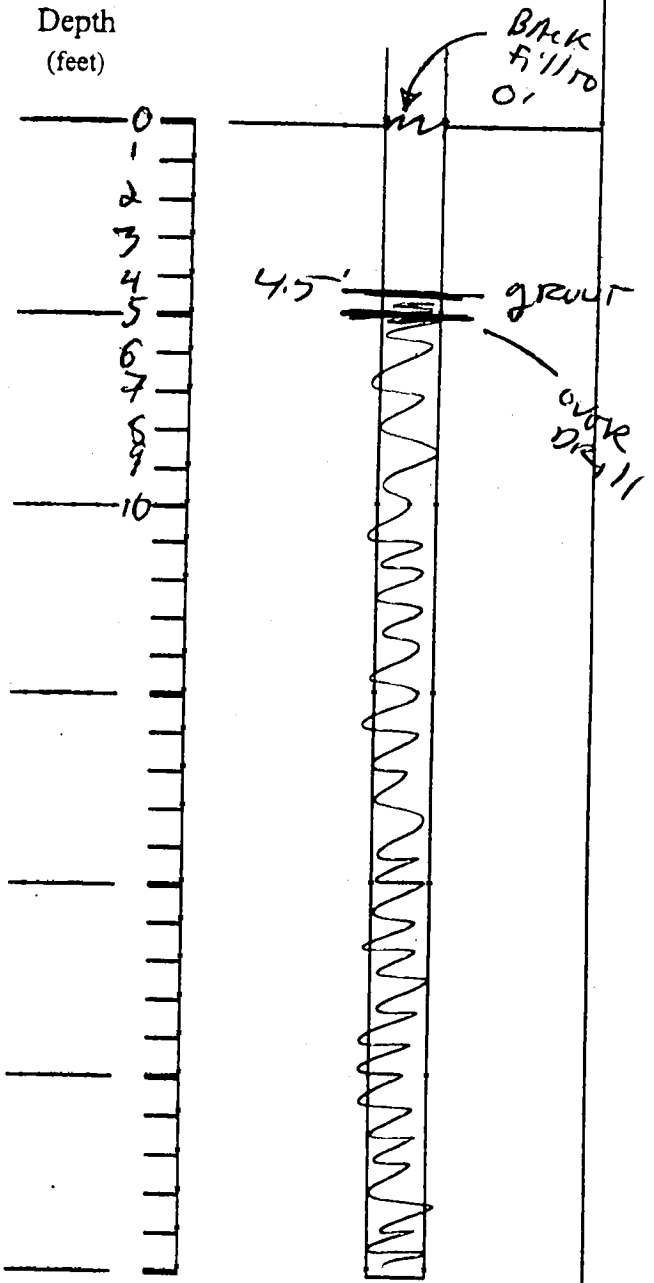
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 7
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01
	OVER DRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	6
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	15
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	EST

WELL SCHEMATIC*



COMMENTS: FILLED WELL TILL OVER FLOWED W/ GROUT - TOPPED OFF W/ GRAVEL

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

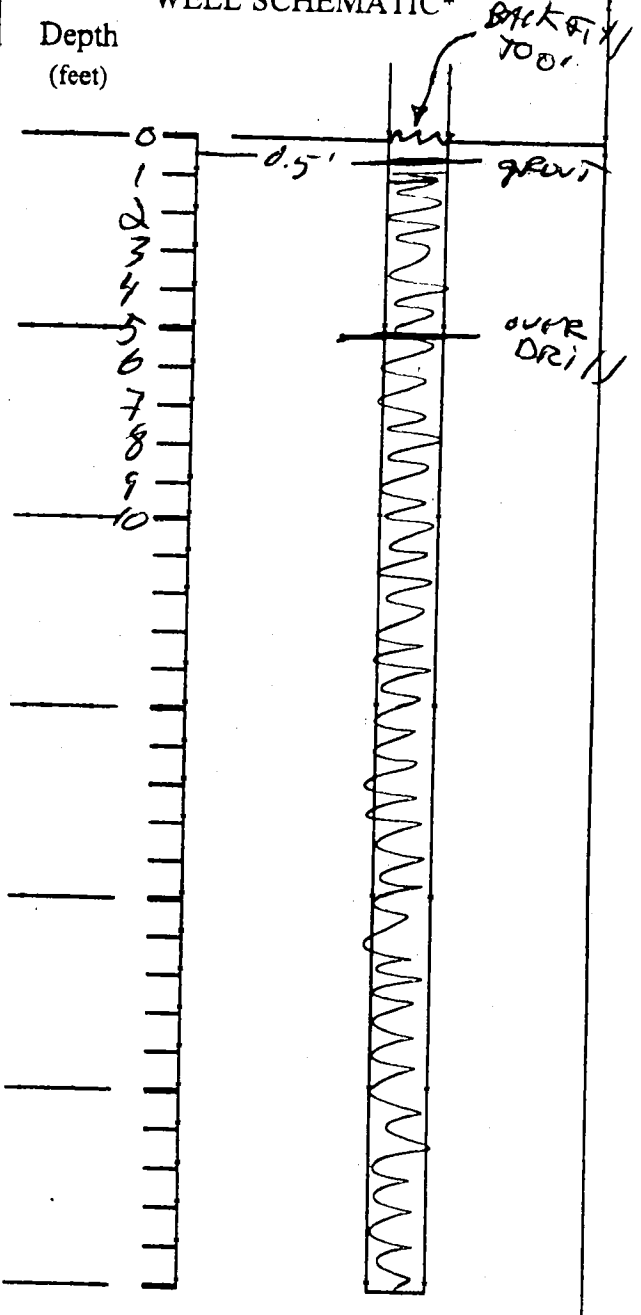
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS B
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01 OVER DRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	7
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	MAPEI
Quantity of bentonite used (lbs.)	015
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7 est

WELL SCHEMATIC*



COMMENTS: FILLED WELL TO OVER FLOWED W/ GROUT - TOPPED OFF WELL W/ GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

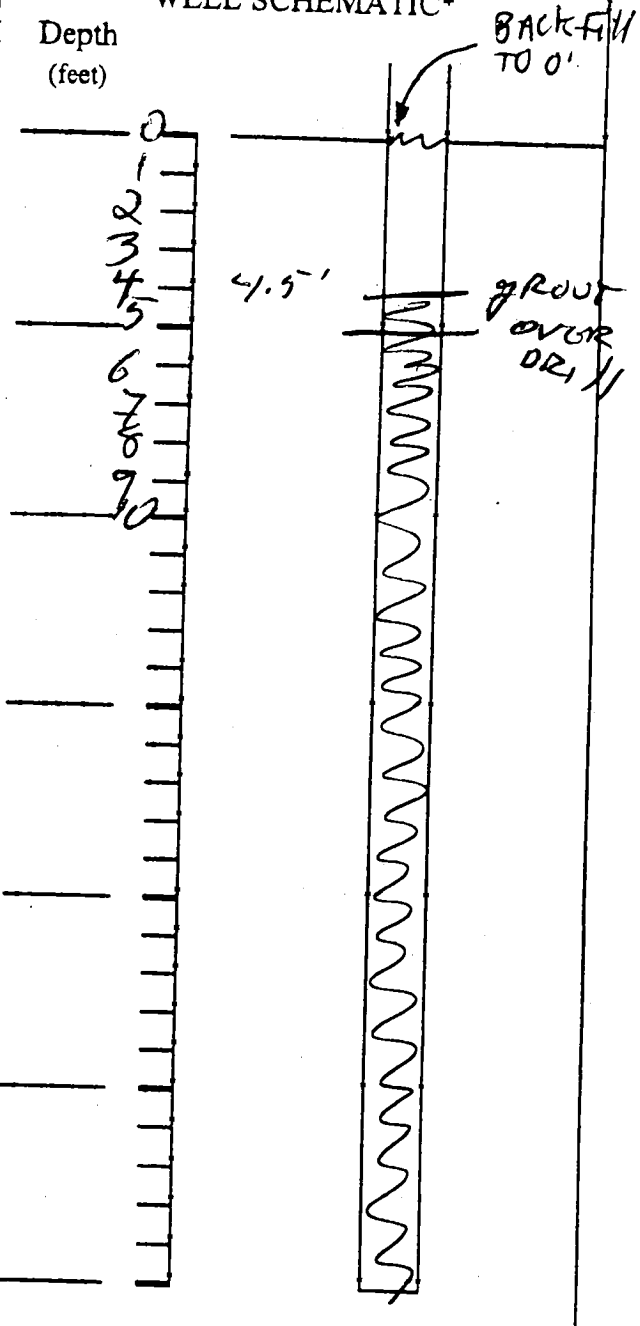
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 1
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01 OVERDRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	7
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	15
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7

WELL SCHEMATIC*



COMMENTS: FILLED WELL TILL OVER FLOWED W/GROUT - TOPPED OFF W/GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

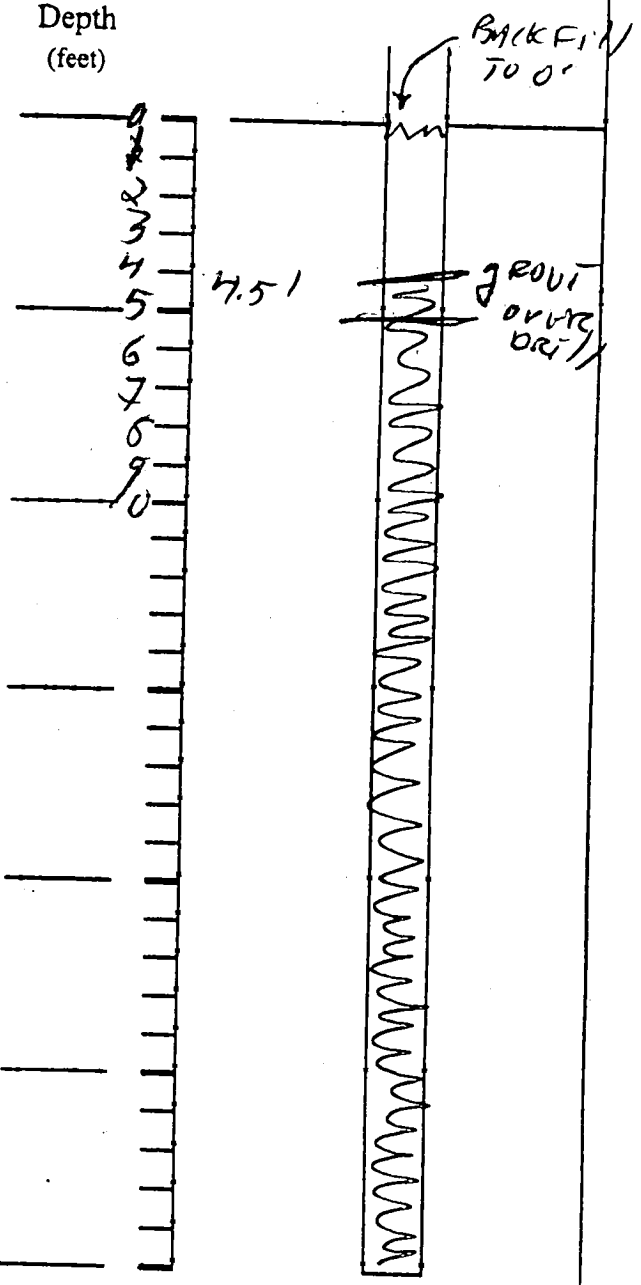
Site Name: MACHIAS GRAVEL PIT	Well I.D.: VW 2
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01

OVER DRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	7
For each batch record:	
Quantity of water used (gal.)	3
Quantity of cement used (lbs.)	376
Cement type	type I
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	15-17 EST

WELL SCHEMATIC*



COMMENTS: Filled well till over flowed w/ grout - topped off w/ grout

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

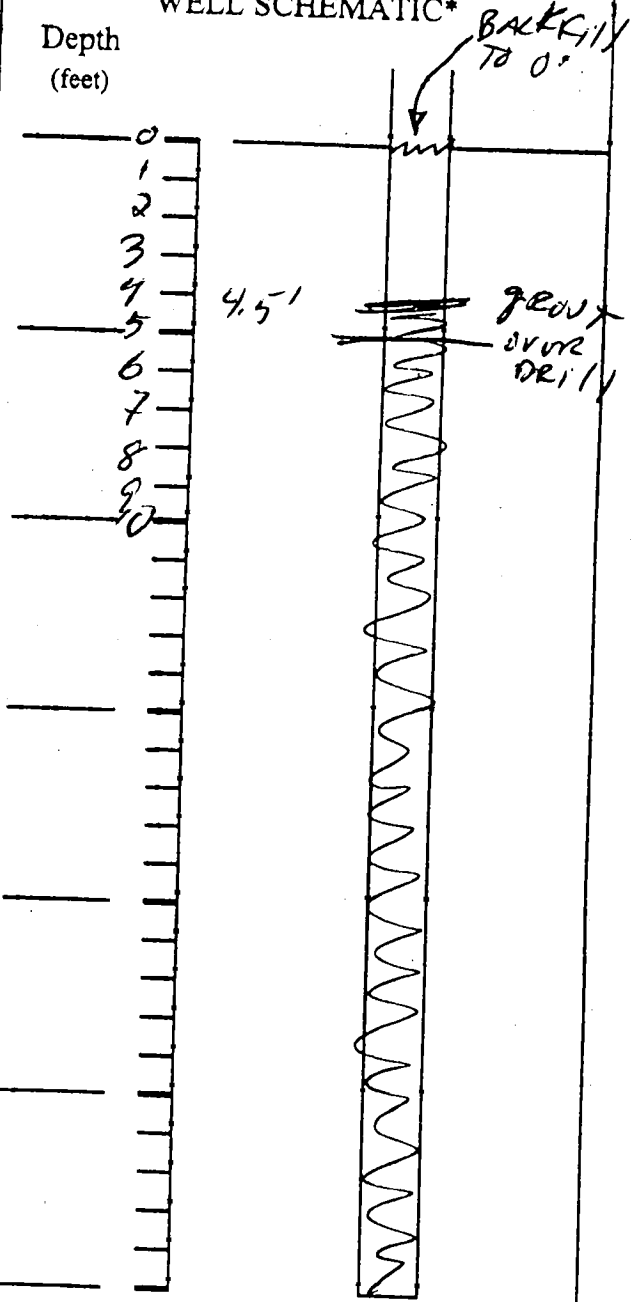
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 2
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01 OVERDRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	7
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	15
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7 E3 7

WELL SCHEMATIC*



COMMENTS: FILLED W/ GROUT TILL OVER FLOWED TOPPED OFF W/ GROUT - TOPPED OFF W/ GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

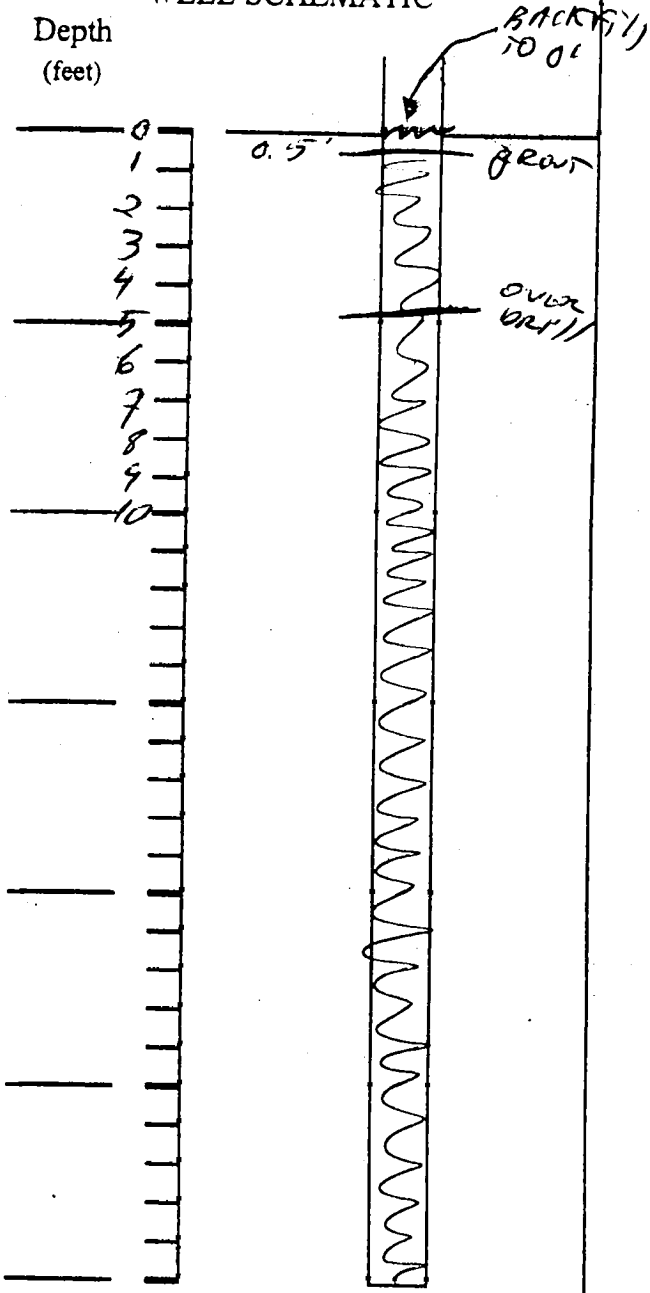
Site Name: MACHIAS GRAVEL PIT	Well I.D.: VW 3
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01

OVER DRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	HSA
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	7
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	Type I
Quantity of bentonite used (lbs.)	115
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	16-17 FGT

WELL SCHEMATIC*



COMMENTS: FILLED W/GROUT TILL WELL OVER FLOWED 16-17 gal of GROUT FROM BATCH 7 TOPPED OFF W/GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

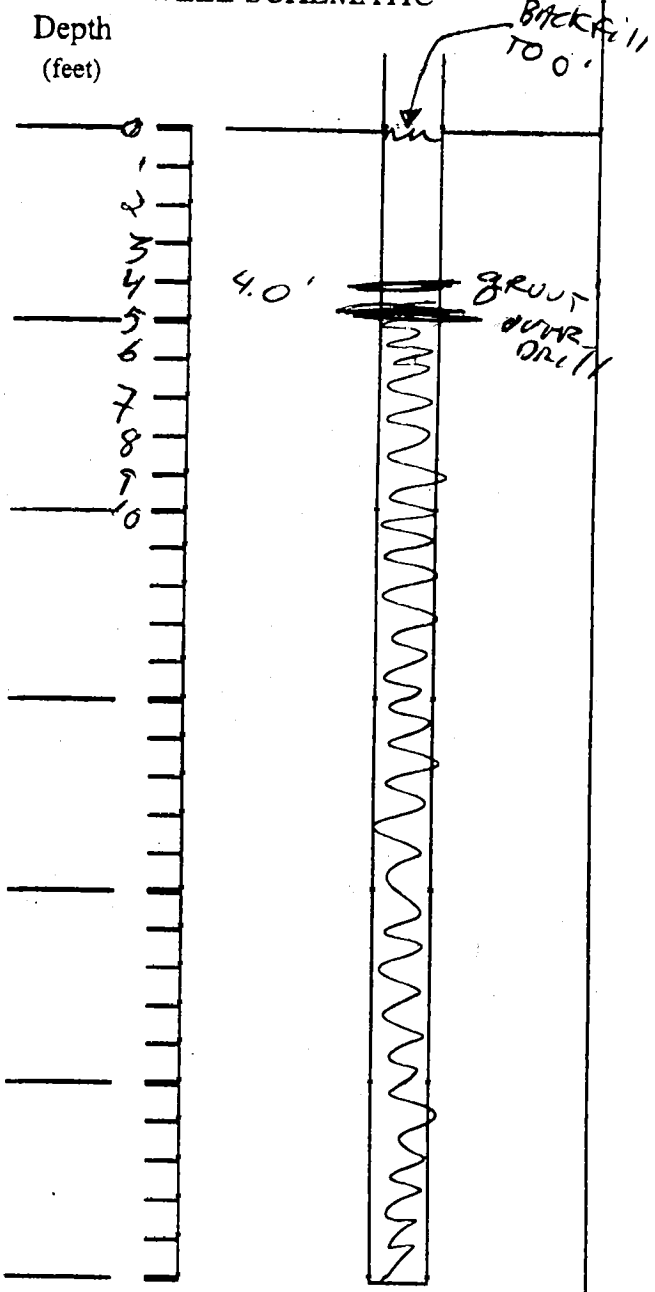
Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 9
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01

OVERDRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	8
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	5-8
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7 EST

WELL SCHEMATIC*



COMMENTS: WELL FILLED W/GROUT TILL OVER FLOWED - TOPPED OFF W/GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

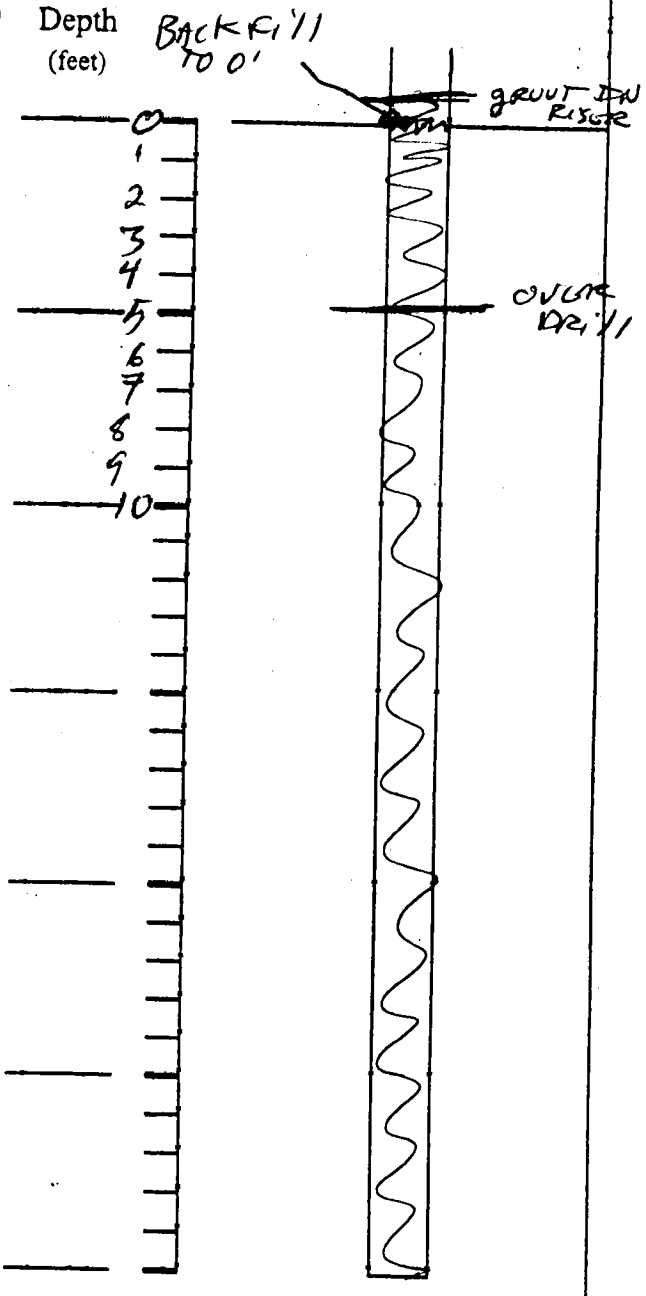
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 3
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01
	OVER DRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	*
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	8
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	15-9
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7 BST

WELL SCHEMATIC*



COMMENTS: RISER W/GROUT FILL OVER
FLOWED - TOPPED W/GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 10
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01

OVERDRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	8
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	15-8
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7 BBT

WELL SCHEMATIC*

Depth (feet)

BACKFILL TO 0'

GROUT IN RISER

0 1 2 3 4 5 6 7 8 9 10

COMMENTS: FILLED WELL W/ GROUT TILL OVERFLOWED - TOPPED OFF W/ GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

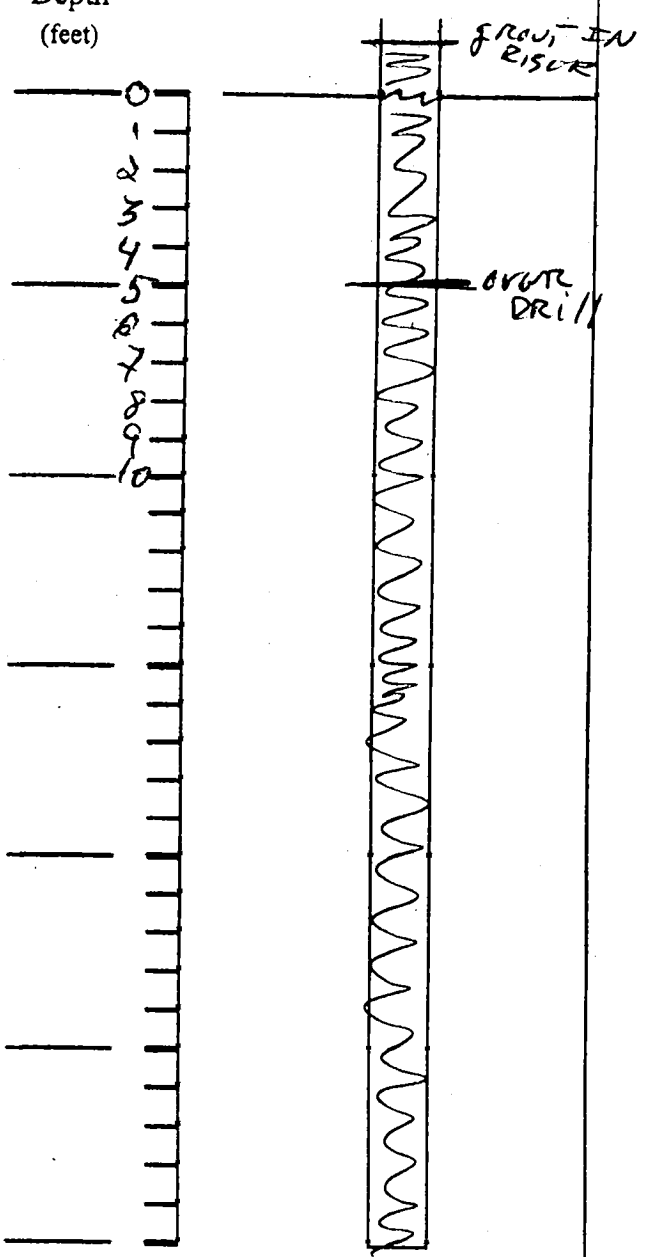
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: A S 15
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01
	OVERDRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5FT
Drilling Method(s)	HSA.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	8
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	5-8
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7 EST

WELL SCHEMATIC*



COMMENTS: FILLED WELL W/GROUT TILL OVERFLOWED - TOPPED OFF W/ GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

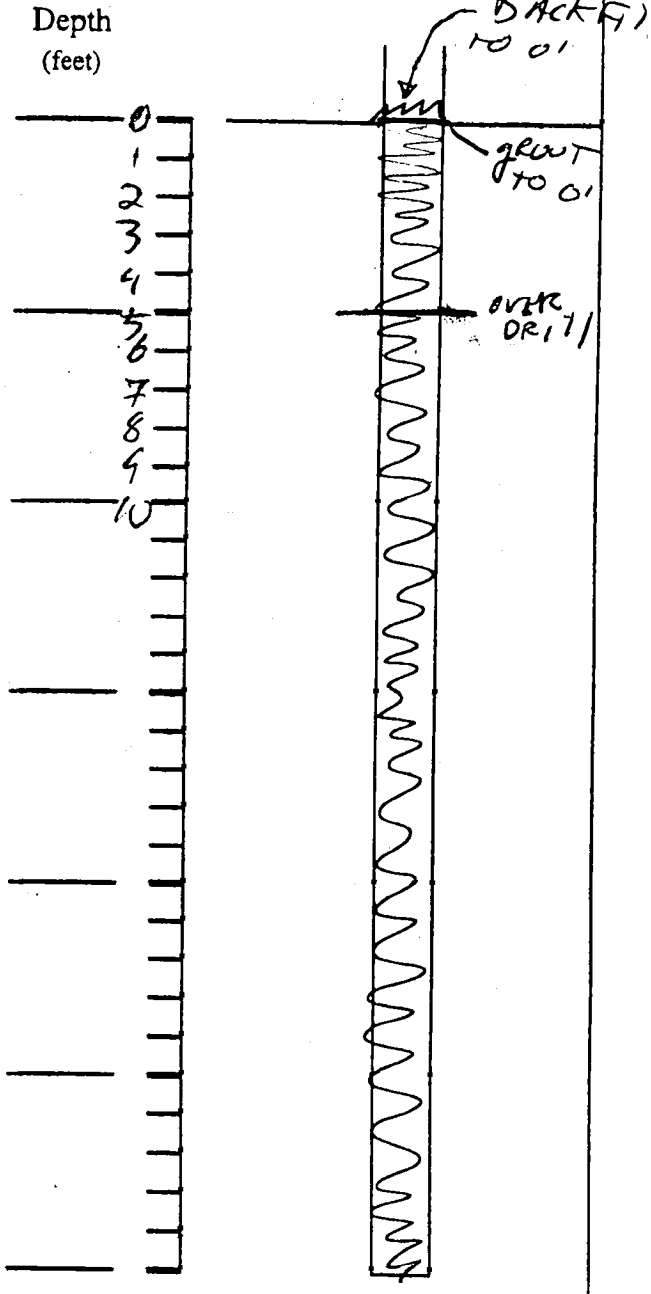
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: VW 7
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01 OVERDRILL 10-31-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	9
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	15-9
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	17-19 BBT

WELL SCHEMATIC*



COMMENTS: FW WELL FILL OVERFLOWED W/ grout - TOPPED OFF W/grout

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

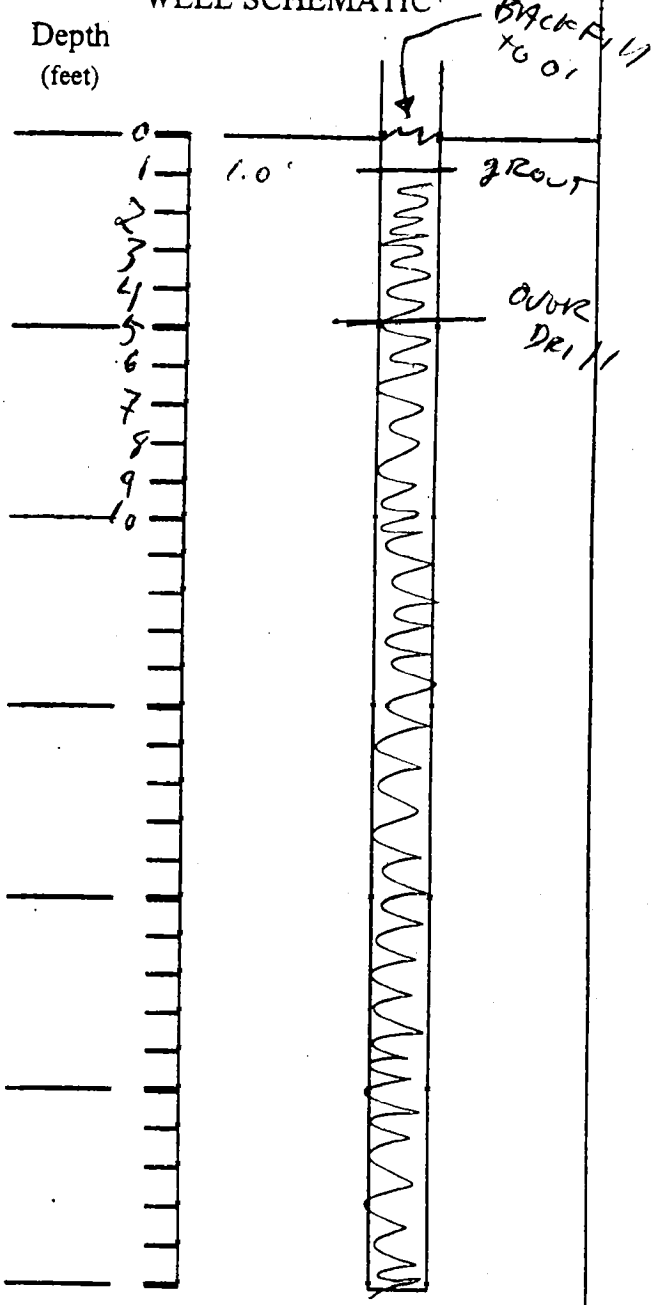
Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 14
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01

OVERDRILL 11-1-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.SA
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	48
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	Type I
Quantity of bentonite used (lbs.)	15-8
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7 BBT

WELL SCHEMATIC*



COMMENTS: WELL FILLED W/GROUT TILL OVER FLOWED - TOPPED OFF W/GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

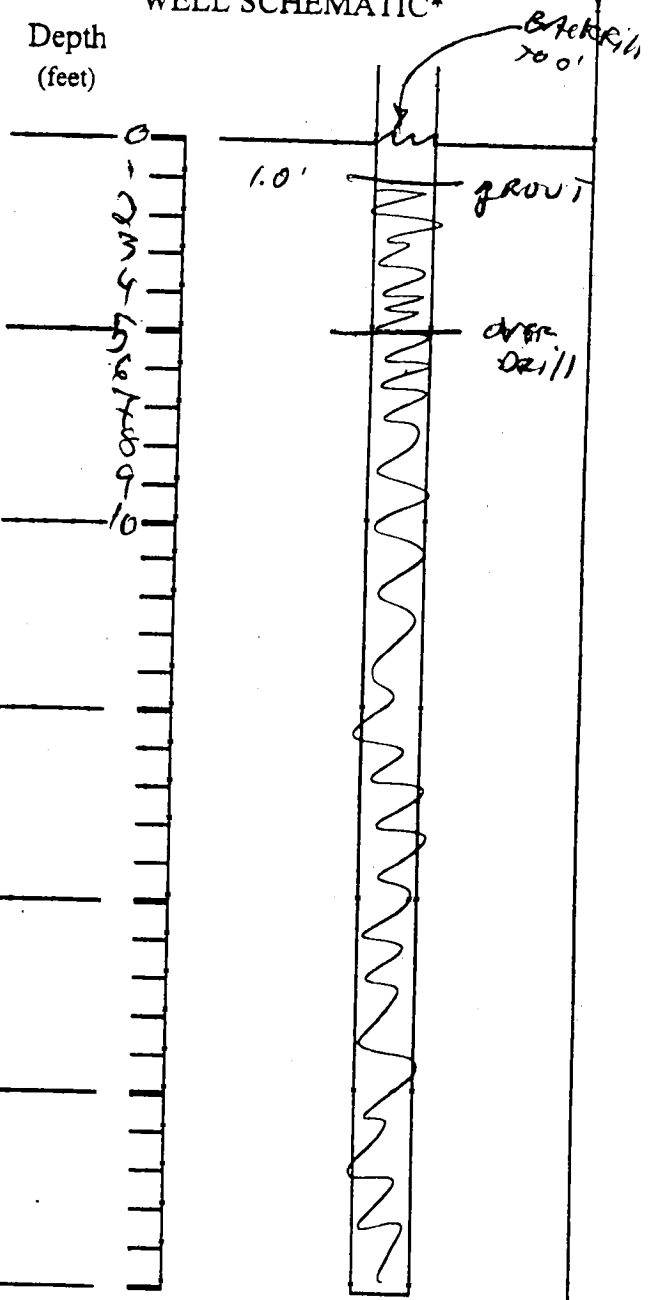
Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 11
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01

OVER DRILL 11-1-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.SA.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	9
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	58
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7-9 est

WELL SCHEMATIC*



COMMENTS: FILLED W/ GROUT TILL OVER FLOWED
TOPPED OFF W/ GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

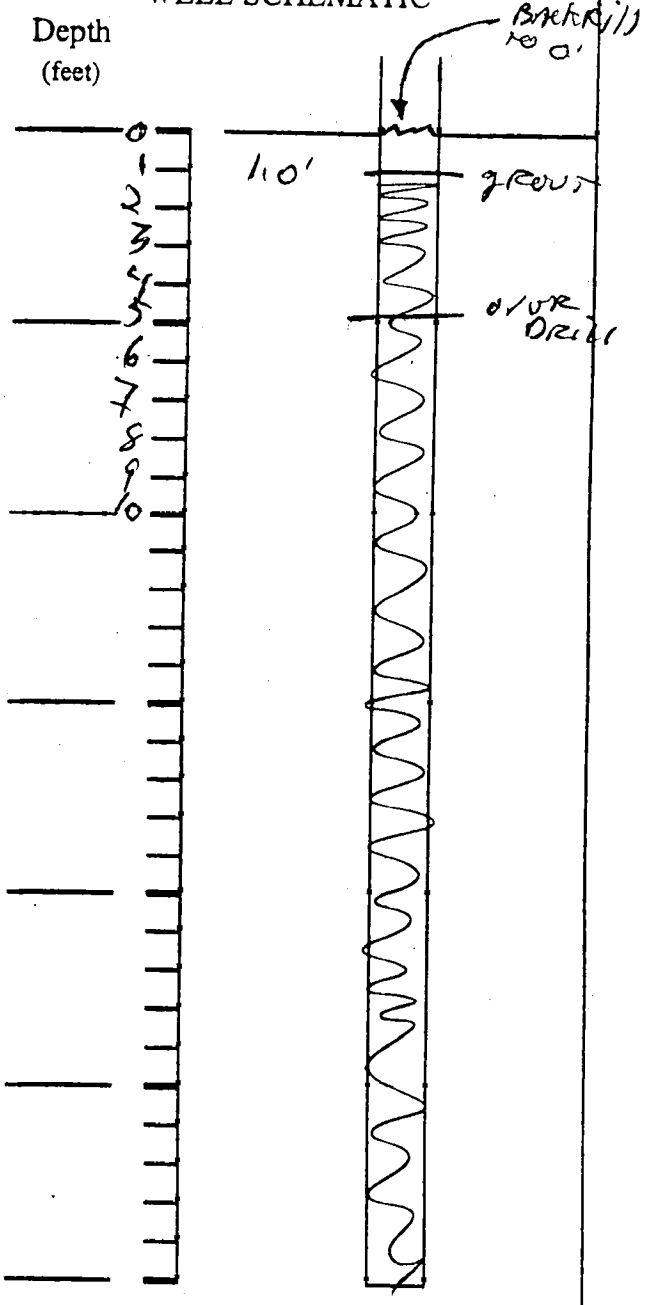
Site Name: MACHIAS GRAVEL PIT	Well I.D.: VW 8
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01

OVERDRILL 11-1-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	9
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	5-8
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	12 EST

WELL SCHEMATIC*



COMMENTS: FINISH WELL W/GROUT TILL OVERFLOWED - TOPPED OFF WELL W/GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

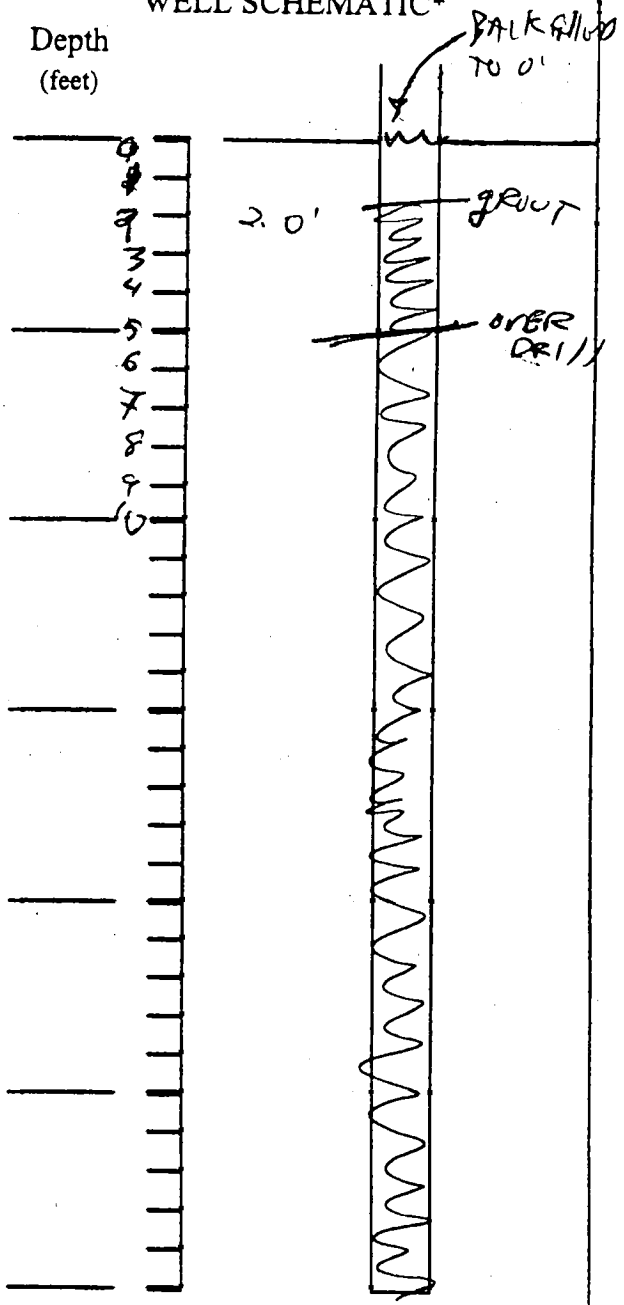
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 4
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01 Over Drill 11-1-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	H.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	9
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	Type I
Quantity of bentonite used (lbs.)	5-8
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7 EST

WELL SCHEMATIC*



COMMENTS: Filled well w/ grout till over flowed - Topped off w/ grout

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

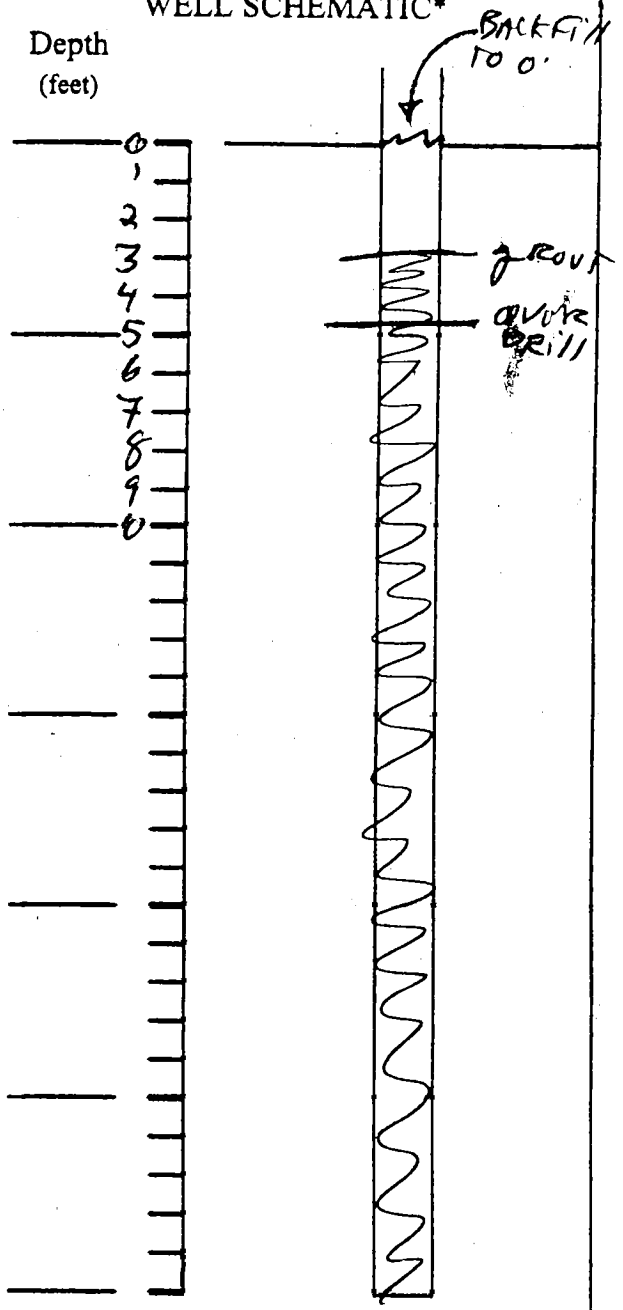
Site Name: MACHIAS GRAVEL PIT	Well I.D.: VW4
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01

OVERDRILLED 11-1-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	MSA.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	9
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	Type I
Quantity of bentonite used (lbs.)	5-8
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	1 BAG

WELL SCHEMATIC*



COMMENTS: FILL ON WELL W/ GROUT FILL OVER FLOOR - TOPPED OFF W/ GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

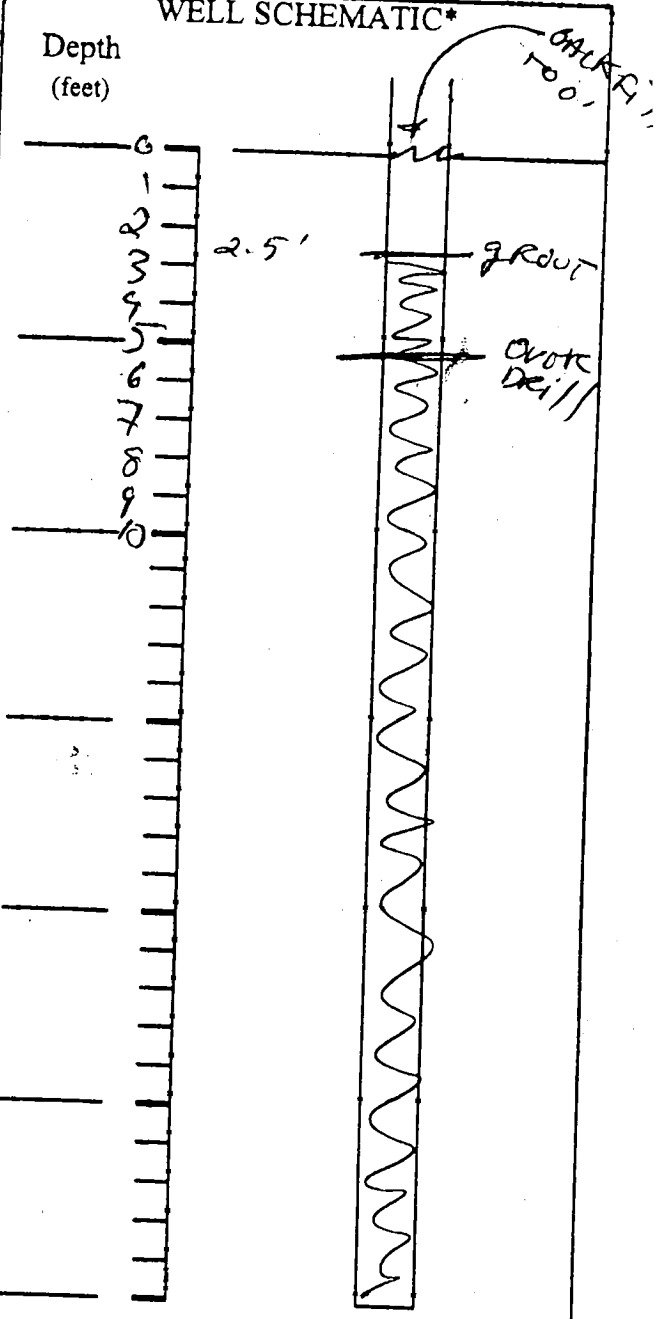
Site Name: MACHIAS GRAVEL PIT	Well I.D.: A-5, 5
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01

OVERDRILL 11-1-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	HSA
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	9-9
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	10 GALLONS

WELL SCHEMATIC*



COMMENTS: WELL HAS BLOCKAGE ABOUT 4' DOWN POURED GROUT DOWN WELL W/BUCKET - TOPPED OFF WELL W/GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

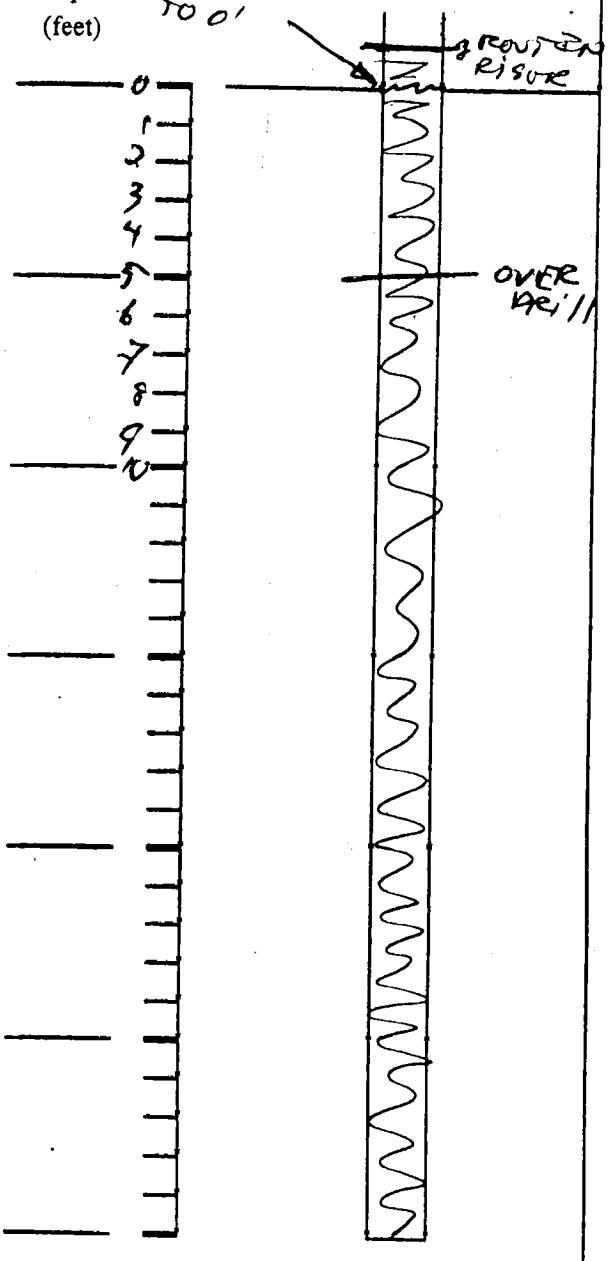
Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 35
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01

OVER DRILL 11-01-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	11
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	Type I
Quantity of bentonite used (lbs.)	5-9
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7 EST

WELL SCHEMATIC*



COMMENTS: FILL TILL WELL OVER FLOWED W/GROUT - TOPPED OFF W/GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

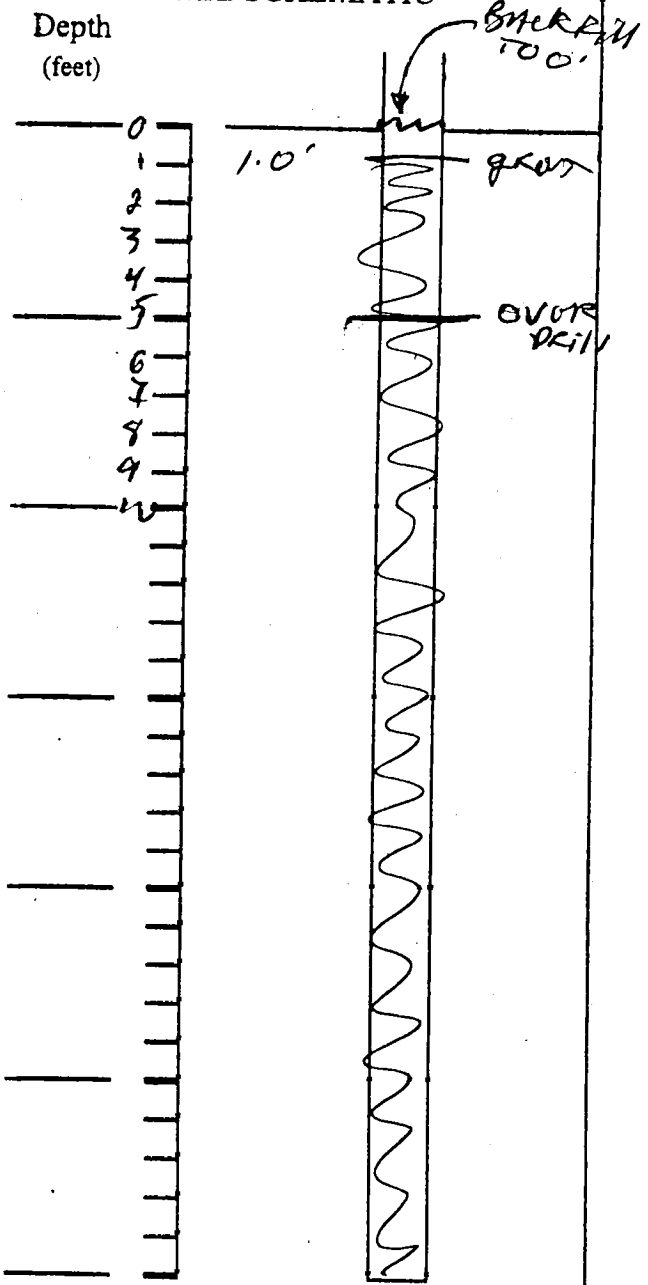
Site Name: MACHIAS GRAVEL PIT	Well I.D.: VW14
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01

OVER DRILL 11-01-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	11
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	Type I
Quantity of bentonite used (lbs.)	15-4
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	47
Volume of grout used (gal.)	19 EST

WELL SCHEMATIC*



COMMENTS: fill w/ grout till over
Flow to - top off w/ grout.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

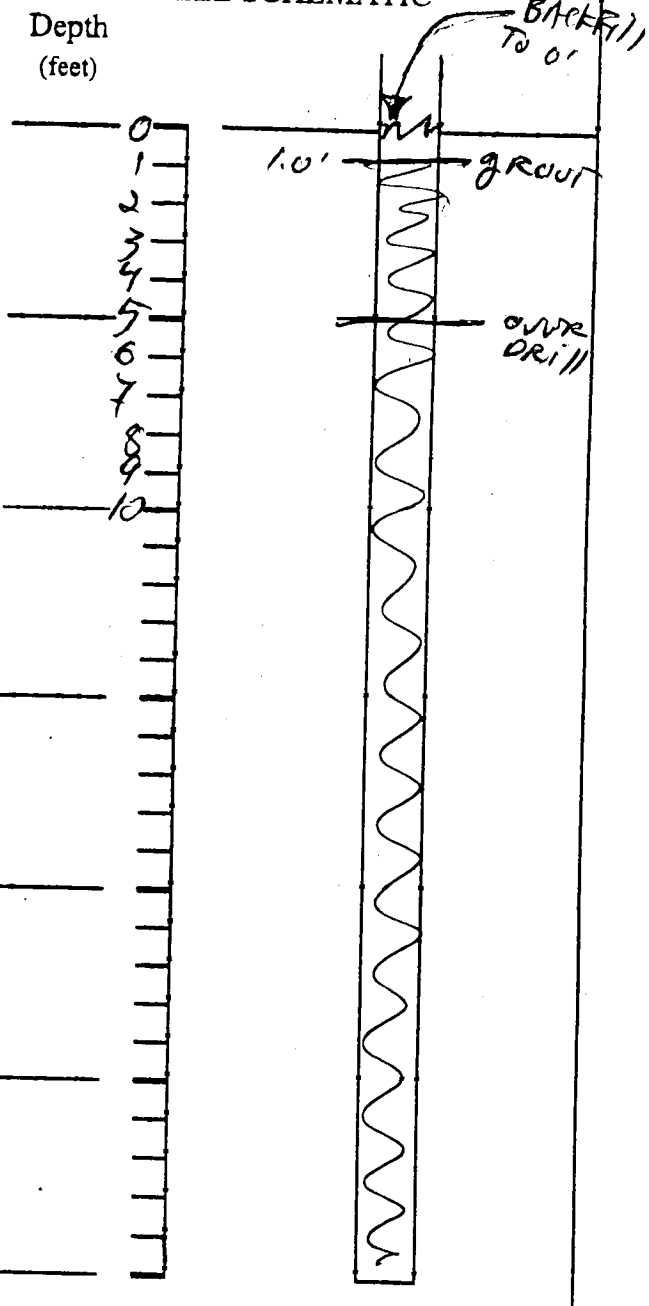
Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 39
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01

OVERDRILL 11-1-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5FT
Drilling Method(s)	HSA
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	10
For each batch record:	
Quantity of water used (gal.)	3
Quantity of cement used (lbs.)	376
Cement type	Type I
Quantity of bentonite used (lbs.)	188
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	8-9 BBLS

WELL SCHEMATIC*



COMMENTS: FILL W/ GROUT TILL WELL OVER FLOWED - TOPPED OFF W/ GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

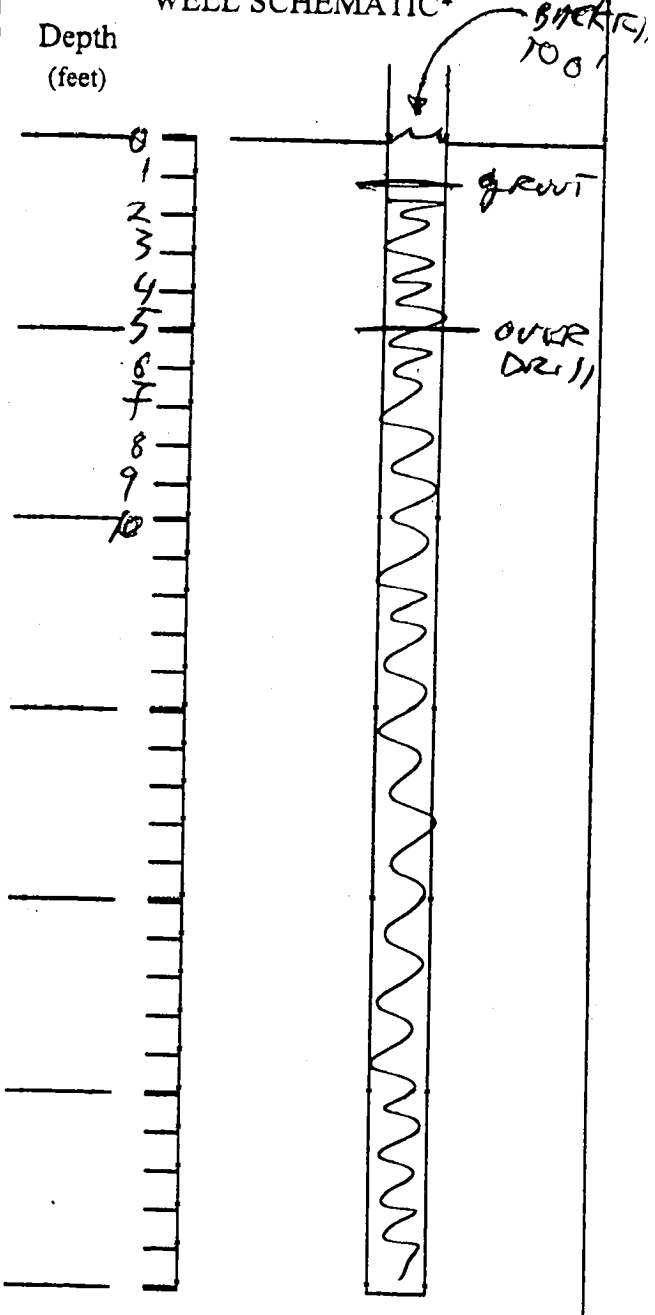
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: VW 16
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01
	OVERDRILL 11-01-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	H.SA.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	17
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	5-8
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	17 BBT

WELL SCHEMATIC*



COMMENTS: FILL WELL W/ GROUT TILL OVER FLOWS
TOPPED OFF W/ GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

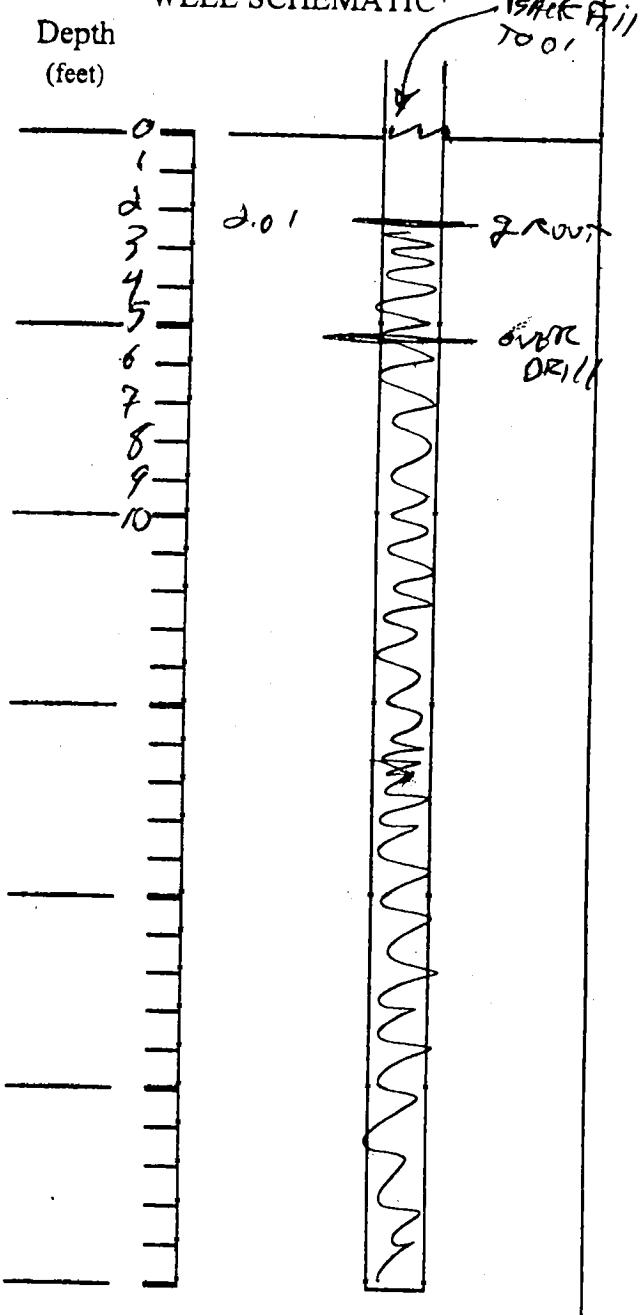
Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 38
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01

OVERDRILL 11-1-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5FT
Drilling Method(s)	HSA
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	12
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	Type I
Quantity of bentonite used (lbs.)	15-16
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	6-7 YST

WELL SCHEMATIC*



COMMENTS: FILLED well w/ grout TILL over FLOWN - topped off w/ grout

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

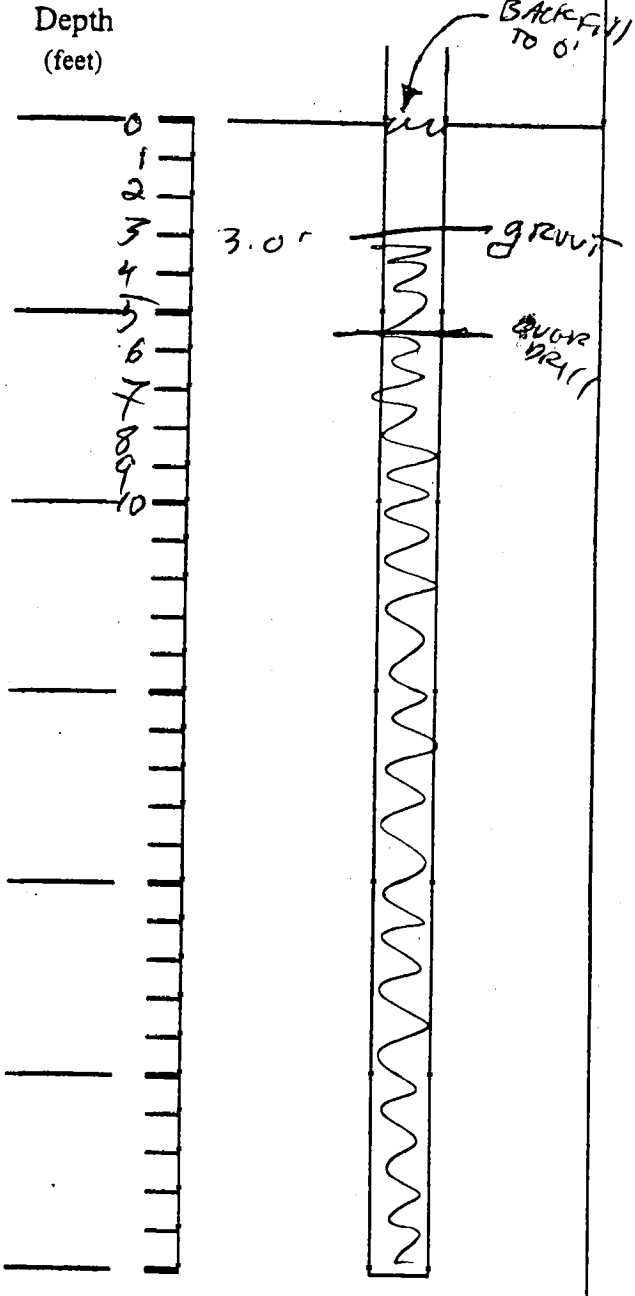
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: VW 15
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01
	OVERDRILL 11-1-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5FT
Drilling Method(s)	HSA.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	5-B
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	45T

WELL SCHEMATIC*



COMMENTS: FILLED W/ GROUT TO WELL OVER FLOWED TOPPED OFF W/ GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

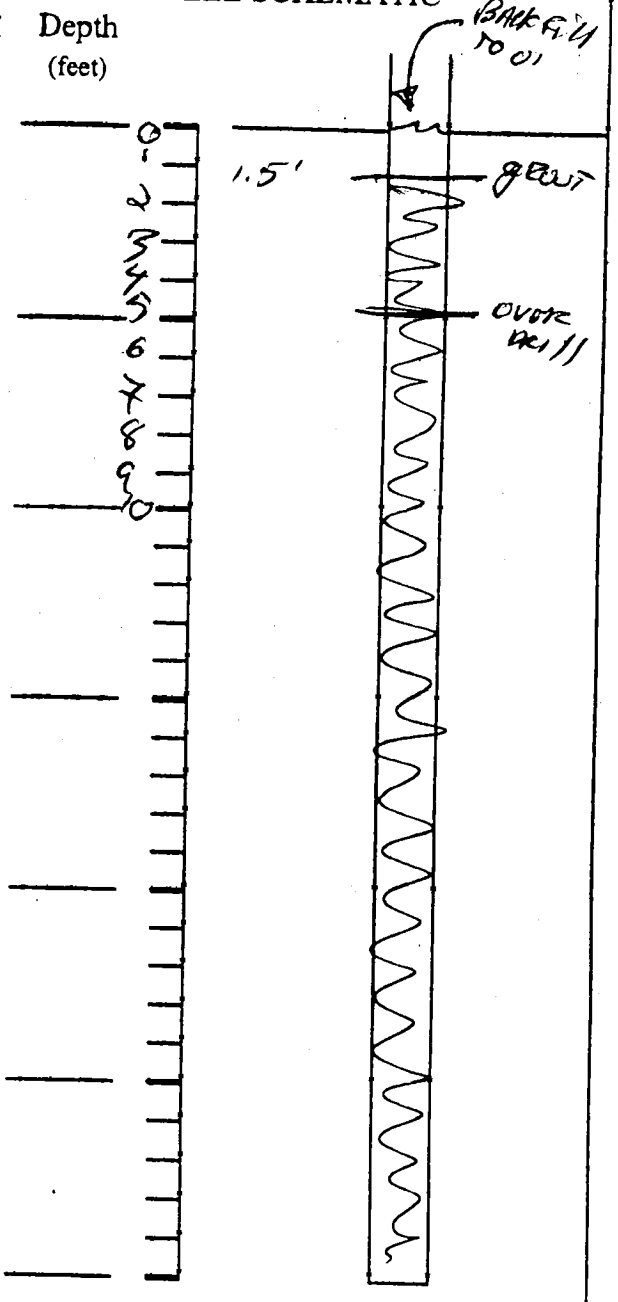
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 37
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-07

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5FT
Drilling Method(s)	H.S.A.
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	12
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	54
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	6 BST

WELL SCHEMATIC*



COMMENTS: FILLED W/GROUT TO WELL OVER FLOWED - TOPPED OFF WELL W/GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

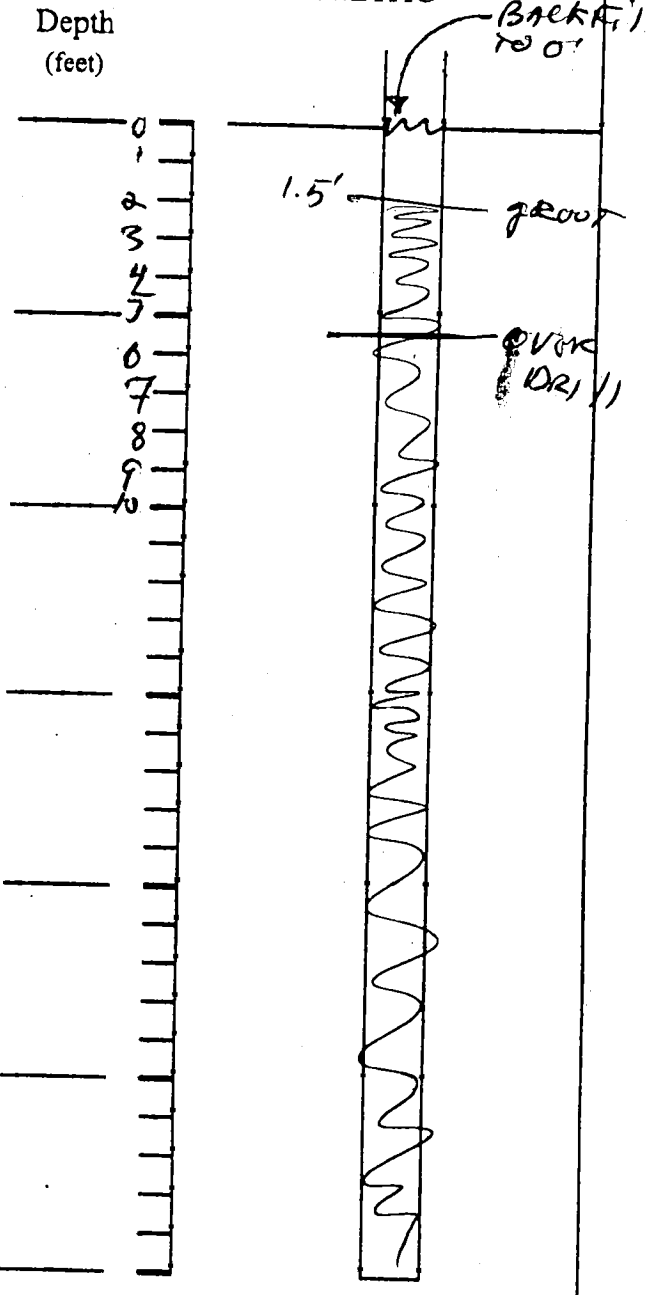
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS 36
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-31-07
	OVERDRILL 11-1-07

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5FT
Drilling Method(s)	H.SA.
Borehole Dia. (in.)	4 1.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	N/A
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	12
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE 1
Quantity of bentonite used (lbs.)	5-8
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	6 EST

WELL SCHEMATIC*



COMMENTS: FILLED W/ GROUT TILL WELL OVERFLOWED - TOPPED OFF W/ GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

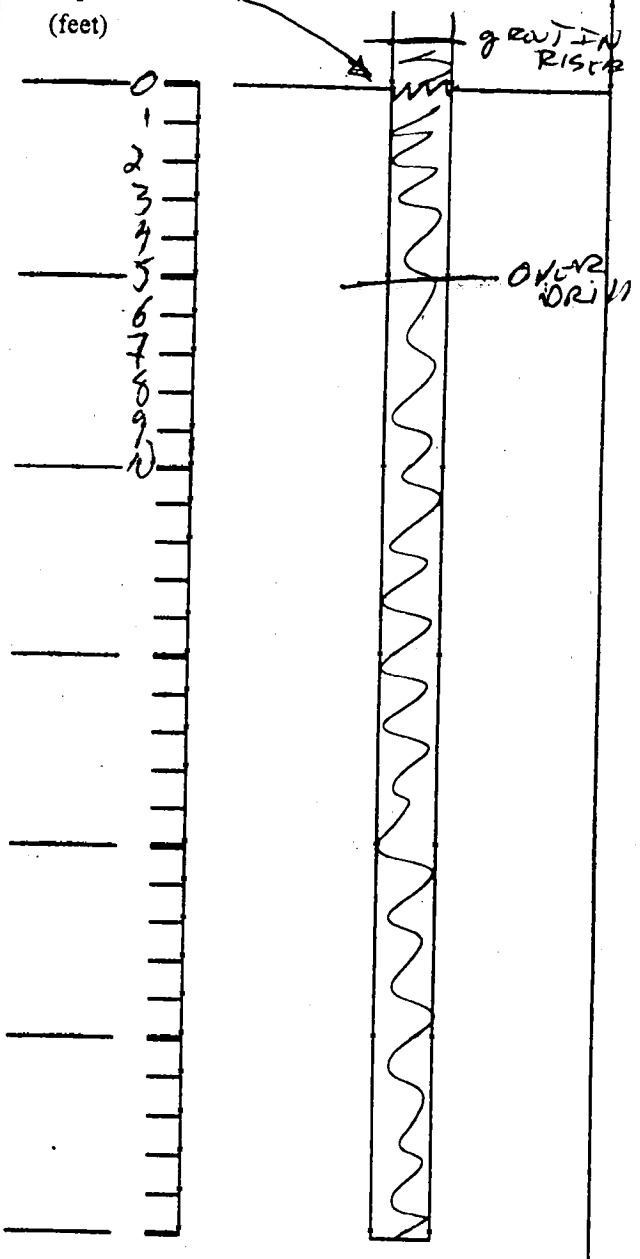
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: MACHIAS GRAVEL PIT	Well I.D.: AS-20
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01 OVERDRILL 11-1-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5 FT
Drilling Method(s)	HSA
Borehole Dia. (in.)	4.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	WINCH/LINE-CHAIN
Casing retrieved (feet)	3 FT
Casing type/dia. (in)	6"
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	8
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	376
Cement type	TYPE I
Quantity of bentonite used (lbs.)	45-8
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	7 ET

WELL SCHEMATIC*



COMMENTS: FILLED WELL W/ GROUT TILL OVER FLOWED. WELLS ARE SET IN CASING TOPPED OFF W/ GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

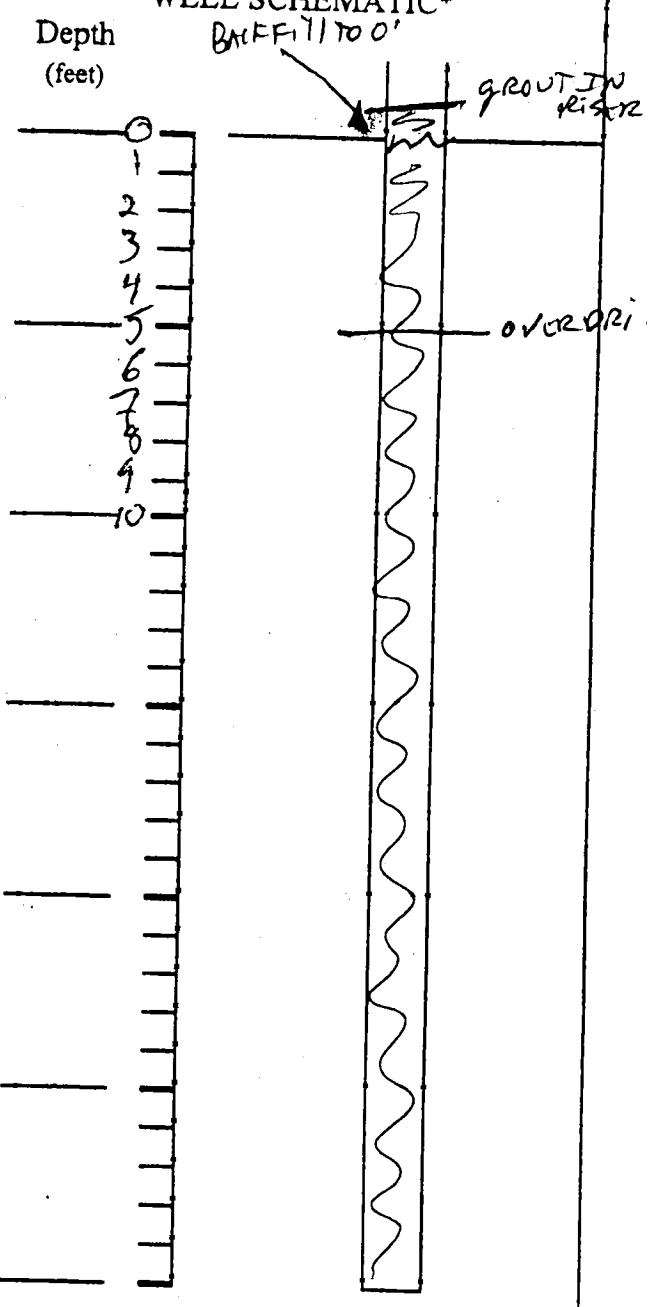
Site Name: MACHIAS GRAVEL PIT	Well I.D.: MW-17
Site Location: VERY ROAD, MACHIAS NY	Driller:
Drilling Co.: BUFFALO DRILLING	Inspector: JASON LACASSE
	Date: 10-30-01

OVERDRILL 11-1-01

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	5FT
Drilling Method(s)	HSA
Borehole Dia. (in.)	11.25
Temporary Casing Installed? (y/n)	N/A
Depth temporary casing installed	N/A
Casing type/dia. (in.)	N/A
Method of installing	N/A
CASING PULLING	
Method employed	WHIP LINE & CHAIN
Casing retrieved (feet)	5FT
Casing type/dia. (in)	6"
CASING PERFORATING	
Equipment used	N/A
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	8-9
For each batch record:	
Quantity of water used (gal.)	31
Quantity of cement used (lbs.)	396
Cement type	PORTL
Quantity of bentonite used (lbs.)	8
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	45
Volume of grout used (gal.)	19 EST

WELL SCHEMATIC*



COMMENTS: FILLED W/GROUT TILL WELL OVERFLOWED 12 GAL EST. FROM BATCH 9, 7 GAL EST FROM BATCH 9- WELL SET IN CASING TOPPED OFF W/GROUT

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

APPENDIX B

BY THIS CERTIFICATE OF COMPLIANCE THE

NEW YORK BOARD OF FIRE UNDERWRITERS

BUREAU OF ELECTRICITY

40 FULTON STREET ~ NEW YORK, NY 10038

CERTIFIES THAT

Upon the application of

ENVIROGEN INC - GLEN MEADER
480 NEPONSET ST
CANTON MA. 02021

upon premises owned by

* MOTOSCOLA
VERY RD
MACHIAS, NY 14101

Located at VERY RD MACHIAS, NY 14101

Application Number: 1027410 **Certificate Number:** 1027410

Section: **Block:** Lot: 18 Building Permit: BDC: B 580

Described as a Commercial occupancy, wherein the premises electrical system consisting of electrical devices and wiring, described below, located in/on the premises at:

First Floor,

was inspected in accordance with the National Electrical Code and the detail of the installation, as set forth below, was found to be in compliance therewith on the 19th Day of November, 2001.

Name	QTY	Rate	Rating	Circuit	Type
Additional Charges					
REMOVAL OF COMPRESSOR					

seal

46 EL (REV. 11/96) A SEPARATE APPLICATION MUST BE FILED FOR EACH SEPARATE BUILDING

THE NEW YORK BOARD OF FIRE UNDERWRITERS

DO NOT WRITE HERE - FOR OFFICE USE ONLY

BUILDING PERMIT NO.

CITY OR VILLAGE: Medina | ZIP CODE: 14101 | TOWNSHIP | COUNTY

STREET AND NO. OR ROAD: Veny Rd. | POLE NUMBER: 18

BETWEEN WHAT TWO CROSS STREETS IS PREMISES LOCATED? | SECTION | BLOCK | LOT

OCCUPANT'S NAME: Mr Tooola | BUILDING OCCUPANCY: Machine Shop Pat

OWNER'S NAME AND ADDRESS | HOME TELEPHONE NUMBER

CURRENT SUPPLIED BY: N. M. | FROM THEIR | OFFICE | WORK TELEPHONE NUMBER

BUILDING IS NEW ☐ OLD ☐ | WORK IS NEW ☐ ADDITIONAL ☐ DEFECTS REMOVED ☐

LIST BELOW ALL EQUIPMENT WHICH YOU INSTALLED

Location	NUMBER OF OUTLETS: Ceiling	Side Wall	Attach'l Recep'ls	Switch	No. of Fixtures & Lamp Receptacles: Pendant	Bracket	MOTORS: No.	Type	H.P. Each	HEATERS: No.	Watts Each	BRANCH CIRCUITS: No.	A.W.G. Gauge
OUTSIDE													
SUB-BASE													
BASEMENT													
1st FL.													
2nd FL.													
3rd FL.													

OFFICE USE ONLY
INSPECTION
Kaylor Bros

REMARKS: LIST OTHER ELECTRICAL DEVICES NOT SET FORTH ABOVE.
Removed feed lines from compressor & Dryer from panel box.

THIS APPLICATION IS INTENDED TO COVER THE ABOVE-LISTED EQUIPMENT TO BE INSPECTED, BUT IF AT TIME OF INSPECTION, THERE IS FOUND ADDITIONAL EQUIPMENT NOT ABOVE LISTED, YOU ARE AUTHORIZED TO MAKE THE INSPECTION AND ADJUST THE FEE TO COVER THE ADDITIONAL EQUIPMENT, AS PROVIDED BY THE APPLICANT.

SIZE OF MAINS	FEEDERS
CHARACTER OF WORK	☐ EXPOSED ☐ CONCEALED
DATE WORK TO BE STARTED	DATE COMPLETED
SERVICE ENTERS BUILDING ☐ OVERHEAD	☐ UNDERGROUND
DATE INSPECTION REQUESTED ON (OR AS NEAR AS POSSIBLE)	MUST ENTER APPLICANT'S IDENTIFICATION NUMBER >

Applicant affirms that there is not an application for electrical inspection pending with a qualified electrical inspection authority, for the installation listed herein.
This application is valid for a period not exceeding one year from the date received by the Board.

AVOID DELAYS BY GIVING FULL AND ACCURATE INFORMATION. ALL SPACES MUST BE FILLED IN OR APPLICATION MAY BE RETURNED.

PRINT NAME AND ADDRESS

NAME OF APPLICANT: ENVIROGEN INC. (Dlvn. Mander) | DATE OF APPLICATION: 11/1/01 | SIGNATURE OF APPLICANT: X

STREET ADDRESS: 480 NEPONSET St. | TELEPHONE NO.: 1-781-821-5560

CITY OR POST OFFICE: CANTON MA | ZIP CODE: 02021 | LICENSE NO. WHEN APPLICABLE

☐ 40 Fulton Street, NEW YORK, NY 10038, (212) 227-3700
☐ 111 Washington Ave. SUITE 704, ALBANY, NY 12210, (518) 463-2122
☐ 3291 Lake Shore Road, BUFFALO, NY 14219, (716) 827-1155
☐ 803 West Avenue SUITE 106, ROCHESTER, NY 14611, (716) 436-4460
☐ 202 Arterial Road, SYRACUSE, NY 13206, (315) 463-8552

THE NEW YORK BOARD OF FIRE UNDERWRITERS

APPENDIX C

BILL OF LADING/MANIFEST

1. Shipper's US EPA ID No. (If Applicable)	Document No.	2. Page 1 of 1	
NYD981187107	93303		35796

3. Shipper's Name and Mailing Address: TOWN OF MACHIAS
PO BOX 87
ATTN; DOUGLAS LAW
MACHIAS NY 14101

4. Shipper's Phone: (716 353-8207

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
SAFETY-KLEEN SYSTEMS, INC	SCR000075150	716 826-8931
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone
9. Designated Facility Name and Site Address: 000658 SAFETY-KLEEN SYSTEMS, INC. 3700 LAGRANGE ROAD SMITHFIELD KY 40068	10. US EPA ID Number KYD053348108	C. Facility's Phone 502 845-2453

	11. Shipping Name and Description	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a.	OILY WATER (NOT USDOT OR USEPA HAZARDOUS MATERIAL)		005	DM	01250	P
b.	NON REGULATED SOLID		002	DM	00800	P
c.						
d.						

15. Special Handling Instruction and Additional Information

MFST R/T#101536636 0002-6739-57
EMERGENCY RESP 800-468-1760(24 HR). IF UNDELIVERABLE RETURN TO GENERATOR.
SK CORP AUTHORIZED TO RETAIN LICENSED SUBSEQUENT CARRIERS AS NECESSARY.

SKDOT# A: 5776 B: 25383 C: D:

NY Lic# 92865AT

16a. US DOT HAZARDOUS MATERIALS SHIPPER'S CERTIFICATION: This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Printed/Typed Name	Signature required here if US DOT regulated	Month	Day	Year

16b. NON-REGULATED SHIPPER'S CERTIFICATION: I certify the materials described above on this form are not subject to federal regulations for Transportation or Disposal.

Printed/Typed Name	Sign here if material is not DOT regulated	Month	Day	Year
(X) Douglas A Law	(X) Douglas A Law	12	06	01

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
KARL BAKER	Karl Baker	12	06	01

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of materials covered by this form except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

SHIPPER | TRANSPORTER | FACILITY

USE 16A OR 16B

IN EVENT OF EMERGENCY CALL
1-800-468-1760 (24 hours)

GENERATOR'S COPY