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FINAL
REMEDIAL INVESTIGATION REPORT
NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
BETHPAGE, NEW YORK

VOLUME II
(APPENDICES A - G)

PREPARED BY

HALLIBURTON NUS
ENVIRONMENTAL CORPORATION
PITTSBURGH, PENNSYLVANIA

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY
(CLEAN) PROGRAM

CONTRACT NO. N62472-90-D-1298
CONTRACT TASK ORDER NUMBER 0003

MAY 1992

HALLIBURTON NUS
Environmental Corporation

Donohue ENGINEERS ARCHITECTS SCIENTISTS

ENSR™

Appendix A

Portions of the Grumman Work Plan (G&M, 1990)

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A.2 Table 2 - Volatile Organic Compounds Detected in Wells Within a Three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York

A.3 Table 3 - Production Well Water-Quality Data, Grumman Aerospace Corporation, Bethpage, New York

A.4 Figure 5 - Waste Table Elevation on June 2, 1988 in the Vicinity of the Grumman Aerospace Corporation, Bethpage, New York

A.5 Figure 7 - Proposed Soil-Gas Survey and Recharge Basin Sampling Locations, Grumman Aerospace Corporation, Bethpage, New York; and Figure 8 - Proposed Soil Boring and Monitoring Well Locations, Grumman Aerospace Corporation, Bethpage, New York

A.1 Table 1 - Wells within a Three-Mile Radius of Grumman Aerospace Corporation, Bethpage, New York

Table 1. Wells Within a three-Mile Radius of Grumman Aerospace Corporation, Bethpage, New York.

NYS Well ID #	Owner/ User	Total Depth of Well (feet)	Diameter of Well (inches)	Screened Interval (feet)	Use of Well	Use of Water	Aquifer Screened	Compass Directions/ Distance(1) (feet)	Pumpage(2)
192	Bethpage Water Dist.	176	10	112-173	Withdrawal	Public Supply	Magothy	SE/4800	327*
525	Village of Farmingdale	68	12	50-68	Withdrawal	Public Supply	--	SE/17,100	103*
576	LIRR	409	8	399-409	Industrial	Locomotive Boilers	Magothy	NW/10,500	--
706	Village of Farmingdale	70	11.5	55-70	--	--	--	SE/17,100	500*
746	Bethpage Water Dist.	120	10	81.5-120	Withdrawal	Public Supply	Magothy	SE/4800	610*
747	Bethpage Water Dist.	242	5	192-232	Withdrawal	Public Supply	Magothy	SE/4092	610*
1232	NCDPW	57	4	--	Observation	--	Magothy	NE/6700	--
1233	NCDPW	40	1.25	--	Observation	--	Upper Glacial	E/6100	--
1234	NCDPW	65	1.25	--	Observation	--	Upper Glacial	SE/8400	--
1658	Grumman	112	8	87-112	Withdrawal (3)	Air Cond. & Plant Use	Magothy	S/1300	500*
1665	Grumman	101	15	67-100	Industrial (3)	Air Cond. & Plant Use	Magothy	SW/1400	1075*
1666	Grumman	108	15	74-98.5	Industrial (3)	Air Cond. & Plant Use	Magothy	W/1200	1060*
1797	U.S. Navy	96	10	74-94	Industrial (3)	Plant Use	Magothy	NW/1452	330*
1798	U.S. Navy	105	12	80-105	Industrial (3)	Air Cond.	Magothy	N/1848	930*
1859	U.S. Navy	165	8	140-170	Industrial (3)	Air Cond. & Plant Use	Magothy	N/1400	850*
1911	U.S. Navy	178	12	133-163	Industrial (3)	Air Cond. & Plant Use	Magothy	NW/2100	800*
1912	U.S. Navy	159	12	119-149	Industrial (3)	Air Cond. & Plant Use	Magothy	N/1716	800*
1922	U.S. Navy	187	12	130-160	Industrial (3)	Plant Use	Magothy	N/2000	760*

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1923	Grumman	359	16	293-348	Industrial (3)	Air Cond. & Plant Use	Magothy	S/2100	76949	1986
1937	Village of Farmingdale	151	12	120-151	Withdrawal	Public Supply	--	SE/12000	758*	6 -
1960	U.S. Navy	200	12	130-160	Industrial (3)	Air Cond. & Plant Use	Magothy	W/1500	900*	8/--
1961	U.S. Navy	274	8	213-263	Industrial (3)	Air Cond. & Plant Use	Magothy	N/2700	--	--
1963	U.S. Navy	186	17	97-127	Industrial (3)	Air Cond. & Plant Use	Magothy	W/2200	--	--
2066	Bethpage Water Dist.	158	12	121-153	Withdrawal	Public Supply	Magothy	NE/6250	820*	2/-
2240	M. Catapano	89	8	73-89	Withdrawal	Irrigation	Upper Glacial	SW/2600	340*	5/-
2580	Levitt & Sons, Inc.	357	12	310-357	Withdrawal	Public Supply	--	SW/13,200	1200*	9 5
2587	--	61	--	26-61	Withdrawal	Irrigation	--	S/9000	--	--
3142	Bethpage Water Dist.	163	12	122-163	Withdrawal	Public Supply	Magothy	NE/6250	175*	8/-
3147	Bethpage Water Dist.	233	12	192-233	Withdrawal	Public Supply	Magothy	NE/6250	730*	9/5
3193	Levittown Water Dist.	316	8	274-316	Withdrawal	Public Supply	Magothy	S/1000	--	-
3194	Levittown Water Dist.	256	12	219-256	Withdrawal	Public Supply	Magothy	SW/9600	--	--
3312	Levittown Water Dist.	304	12	252-304	Withdrawal	Public Supply	Magothy	S/12,200	--	--
3428	--	611	--	--	--	--	--	NE/6250	--	-
3435	--	111.3	--	33-111.3	Withdrawal	Public Supply	--	SW/8100	--	-
3450	Booker	147	12	122-147	Industrial	Cooling	Magothy	NW/1050	--	-
3488	Hicksville Water Dist.	169	12	114-167	Withdrawal	Public Supply	Magothy	W/6600	1540*	10/

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3552	Hicksville Water Dist.	169	12	116-169	Formation Test Hole	--	Magothy	W/10,800	--	
3554	NCDPW	288	4	64.5-268.5	Observation	--	Magothy	SE/8300	--	
3618	Levittown Water Dist.	418	16	377-418	Withdrawal	Public Supply	Magothy	SW/9600	75471	19
3666	--	68.5	--	29.2-68.5	Industrial	Air Cond.	--	SW/10,600	--	
3780	N.Y. Water Service Corp.	142	16	89-142	Withdrawal	Public Supply	--	S/15,350	1800*	11
3876	Bethpage Water Dist.	386	16	328-385	Withdrawal	Public Supply	Magothy	S/7128	1500*	3/
3893	N.Y. Water Service Corp.	151	14	96-151	Withdrawal	Public Supply	--	S/15,350	1809*	6/
3898	LILCO	138	12	107.5-129	Industrial	Cooling	Upper Glacial	NW/6864	300*	10
3899	LILCO	134	8	13.5-124.5	Industrial	Cooling	Upper Glacial	NW/6864	115*	6/
3900	LILCO	156	8	36.5-147.5	Industrial	Cooling	Upper Glacial	NW/6864	106*	8/
4042	S. Farmingdale Water Dist.	157	12	96-154	--	--	--	SE/14,400	1250*	2
4043	S. Farmingdale Water Dist.	374	12	322-374	--	--	--	SE/14,400	1200*	
4063	Bethpage Water Dist.	233	16	139-233	Withdrawal	Public Supply	Magothy	NE/4750	1529*	1/
4146	Bethpage Water Dist.	235	16	133-235	Withdrawal	Public Supply	Magothy	NE/5000	1480*	10
4175	--	69	--	54-69	Withdrawal	Irrigation	--	NE/4000	--	
4176	--	318	--	44-310	Industrial	Cooling	--	--	--	
4450	Levittown Water Dist.	472	12	415-472	Withdrawal	Public Supply	--	SW/13,200	1250*	7
4451	Levittown Water Dist.	403	12	231-281	Withdrawal	Public Supply	Magothy	SW/6500	204506	1
4708	Pittsburgh Plate Corp.	169	10	149-169	Industrial	Industrial	Magothy	NW/3036	439*	7

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5026	--	109	--	72-109	Industrial	Cooling	--	N/7000	--	--
5148	S. Farmingdale Water Dist.	369	12	295-369	Withdrawal	Public Supply	--	SE/14,400	1300*	[illegible]
5149	LILCO	193	12	21.5-175.5	Industrial	Cooling	Magothy	NW/7128	527*	[illegible]
5301	Levittown Water Dist.	377	18	324-377	Withdrawal	Public Supply	Magothy	SW/10,500	--	-
5302	Levittown Water Dist.	487	12	431-487	Withdrawal	Public Supply	--	SW/16,3000	1212*	6/
5303	Levittown Water Dist.	512	12	545-512	Withdrawal	Public Supply	Magothy	S/13,700	--	-
5304	Levittown Water Dist.	472	12	415-472	Withdrawal	Public Supply	--	S/17,200	1230*	11
5305	U.S. Navy	167	12	115.5-167	Industrial (3)	General Supply	Magothy	N/2376	1016*	8/
5306	U.S. Navy	256	12	173-206 233-255	Industrial (3)	General Supply	Magothy	N/2244	1016*	
5368	Hooker	150	10	10.5-141.5	Industrial	Processing	Magothy	NW/3700	723*	5/
5390	Hooker	145	12	82-137	Industrial	Cooling & Processing	Magothy	NW/3300	412*	11
5588	--	45	--	22-45	Industrial	Cooling	--	S/8700	--	
6078	Bethpage Water Dist.	275	24	225-275	Industrial	Public Supply	Magothy	NE/5000	6677	[illegible]
6150	S. Farmingdale Water Dist.	612	12	545-612	Withdrawal	Public Supply	--	S/14,250	1420*	6
6192	Hicksville Water Dist.	626	20	575-526	Industrial	Public Supply	Magothy	W/6072	53505	1
6193	Hicksville Water Dist.	467	12	396-456	Industrial	Public Supply	Magothy	NW/6468	1900*	9
6417	Levittown Public School	60	6	49-60	Withdrawal	Irrigation	Upper Glacial	SW/11,000	--	
6463	--	27	--	16-27	Industrial	Cooling	--	SW/3300	--	

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6517	DPW	58.5	--	10.4-58.5	--	--	--	SE/8000	--	
6580	Plainview Water Dist.	596	20	523-596	Withdrawal	Public Supply	Magothy	N/8700	306029	19
6620	Nat. Metal Process	87	--	82-87	Industrial	Factory & Shop	Upper Glacial	W/3000	--	.
6630	--	586	--	--	--	--	--	SE/8250	--	.
6632	DPW	210	--	36-210	--	--	--	S/3950	--	.
6633	DPW	218	--	37-218	--	--	--	SE/4400	--	.
6634	DPW	226	--	--	--	--	--	SE/4900	--	.
6635	DPW	219	--	--	--	--	--	S/4400	--	.
6644	Village of Farmingdale	227	12	128-227	Withdrawal	Public Supply	--	SE/12000	1212*	3/
6775	Plastic Materials	105	6	87-105	Industrial	Cooling	Magothy	NW/4620	50*	11
6683	--	135	--	60-135	Industrial	Plant use	--	W/2500	--	-
6781	--	74	--	37-74	Industrial	Cleaning	--	SE/4750	--	-
6904	--	693	--	--	--	--	--	SW/10,000	--	--
6915	Bethpage Water Dist.	608	20	442-482	Withdrawal	Public Supply	Magothy	SE/8184	227148	198
6916	Bethpage Water Dist.	611	20	555-605	Withdrawal	Public Supply	Magothy	SE/8184	47639	198
6970	National Par 3 Golf	82	6	69.5-81.5	Industrial	Sprinkling	Upper Glacial	SW/2800	48*	10/
6996	Sonic Recording	120	8	103-119	Industrial	Cooling	Upper Glacial	NW/5016	--	--
7004	GMM Assoc.	150	6	124-150	Industrial	Cooling	Magothy	NW/4330	--	--

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7076	Levittown Water Dist.	674	20	569-674	Withdrawal	Public Supply	Magothy	S/9600	329875
7094	--	37	--	25-37	Industrial	Cooling	--	S/9300	--
7120	Sonia Recording	120	8	104-120	Industrial	Cooling	Upper Glacial	NW/3616	37*
7164	--	83	--	28-83	Industrial	Air Cond.	--	S/9200	--
7377	S. Farmingdale Water Dist.	758	12	687-758	Withdrawal	Public Supply	--	SE/13,500	1400*
7438	Bethpage State Park	555	20	486-555	Withdrawal	Irrigation	Magothy	E/9300	--
7514	--	65	--	30-65	Industrial	Plant use	--	S/9300	--
7515	S. Farmingdale Water Dist.	332	12	289-332	Withdrawal	Public Supply	--	SE/14,300	1438*
7516	S. Farmingdale Water Dist.	589	12	493-589	Withdrawal	Public Supply	--	SE/14,300	1599*
7518	Grumman	375	16	314-375	Industrial	Cooling	Magothy	N/3100	342203
7523	Levittown Water Dist.	684	12	590-684	Withdrawal	Public Supply	Magothy	S/11,900	--
7531	LILCO	187	12	145-187	Industrial	Air Cond.	Magothy	NW/7120	654*
7534	U.S. Navy	366	16	298-318 335-366	Industrial	Cooling	Magothy	W/2200	217012
7535	U.S. Navy	337	12	280-290 308-337	Industrial	Cooling	Magothy	NW/2100	189348
7536	U.S. Navy	436	12	373-436	Industrial	Cooling	Magothy	E/1848	132581
7633	U.S. Navy	394	12	314-344 364-394	Industrial	Cooling	Magothy	W/1500	320689
7636	U.S. Navy	373	12	312-373	Industrial	Cooling	Magothy	E/1716	3336
7637	U.S. Navy	490	12	439-489	Industrial	Cooling	Magothy	E/1400	113783
7798	Island Trees Public School	64	8	49-64	Withdrawal	Irrigation	Upper Glacial	S/10,100	--

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7832	Village of Farmingdale	457	12	400-457	Withdrawal	Public Supply	--	SE/17,100	1248*	8
7876	--	68	--	30-68	Industrial	Car Wash	--	S/9300	--	
8004	Bethpage Water Dist.	748	20	679-748	Withdrawal	Public Supply	Magothy	S/9100	82031	11
8019	--	72	--	36-72	Industrial	Cooling	--	S/9400	--	
8072	--	41	--	--	--	--	--	SW/10,400	--	
8136	Grumman	543	16	485-543	Industrial	--	Magothy	SW/2200	3799	1
8154	U.S. Navy	528	12	424-528	Industrial	Cooling	Magothy	SW/1400	548614	1
8263	--	530	--	32-530	--	--	--	SW/3300	--	
8279	Levittown Water Dist.	547	12	389-547	Withdrawl	Public Supply	Magothy	S/12,200	--	
8321	Levittown Water Dist.	674	12	569-674	Withdrawl	Public Supply	--	SW/11,500	1250*	
8434	Grumman	560	12	499-560	Industrial	Cooling	Magothy	S/2376	173769	
8480	N.Y. Water Service Corp.	655	12	556-655	Withdrawal	Public Supply	--	S/15,350	2200*	
8523	Mid Island Hospital	129	10	105-129	Withdrawal	Institutional	Upper Glacial	S/9650	--	
8525	Hicksville Water Dist.	503	20	432-482 493-503	Withdrawal	Public Supply	Magothy	W/6600	300543	
8526	Hicksville Water Dist.	601	20	528-601	Withdrawal	Public Supply	Magothy	W/10,800	196266	
8643	U.S. Navy	467	12	416-467	Industrial	Cooling	Magothy	NW/1650	312225	
8767	Bethpage Water Dist.	640	10	579-640	Withdrawal	Public Supply	Magothy	NE/4750	333910	
8768	Bethpage Water Dist.	678	16	605-678	Withdrawal	Public Supply	Magothy	NE/3000	194371	
8778	Hicksville Water Dist.	500	20	329-500	Withdrawal	Public Supply	Magothy	NW/6872	87657	

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8779	Hicksville Water Dist.	585	20	524-585	Withdrawal	Public Supply	Magothy	NW/5000	221640	1
8799	Wheatley Hills G & C	221	8	190-221	Withdrawal	Irrigation	Magothy	S/9200	--	
8816	U.S. Navy	500	12	450-500	Industrial	General	Magothy	E/2000	148019	1
8842	Grumman	570	12	519-570	Industrial	Multi-Purpose	Magothy	S/2600	186294	1
8941	Bethpage Water Dist.	778	12	698-738 750-773	Withdrawal	Public Supply	Magothy	S/7200	393563	1
9079	NCDPW	76	4	--	Observation	--	Upper Glacial	W/3500	--	
9086	NCDPW	68	4	--	Observation	--	Upper Glacial	NW/9000	--	
9106	McLellan Stores	60	4	53-68	Withdrawal	Air Cond.	--	SE/13,100	38*	
9180	Hicksville Water Dist.	630	20	543-567 588-630	Withdrawal	Public Supply	Magothy	W/6072	346338	
9338	N.Y. Water Services Corp.	646	10	584-646	Withdrawal	Public Supply	--	S/13,250	1729*	
9391	Bethpage Water Dist.	682	20	616-682	Withdrawal	Public Supply	Magothy	E/6000	37672	1
9434	NCDPW	33	2	--	Observation	--	Upper Glacial	S/10,000	--	
9461	NCDPW	37	2	--	Observation	--	Upper Glacial	SE/11,400	--	
9918	NCDPW	77	4	--	Observation	--	Magothy	SW/6200	--	
9920	NCDPW	88	4	--	Observation	--	Magothy	NW/7400	--	
9921	NCDPW	68	4	--	Observation	--	Upper Glacial	S/3658	--	
9927	NCDPW	94	4	--	Observation	--	Upper Glacial	NW/11,400	--	
9929	NCDPW	46	4	--	Observation	--	Upper Glacial	S/9400	--	
9931	NCDPW	73	4	--	Observation	--	Upper Glacial	S/1658	--	
9932	NCDPW	105	4	--	Observation	--	Upper Glacial	E/6000	--	
9933	NCDPW	128	4	--	Observation	--	Magothy	NE/12,500	--	
10208	Hicksville Water Dist.	649	12	572-649	Withdrawal	Public Supply	--	SW/6000	1367*	

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10555	Bicksville Water Dist.	693	12	608-693	Withdrawal	Public Supply	--	NW/7200	1380*	5
10588	USGS	76	2	70.5-74.5	Observation	--	Upper Glacial	W/7600	--	
10589	USGS	76	2	73-76	Observation	--	Upper Glacial	W/5800	--	
10590	USGS	76	2	73-76	Observation	--	Upper Glacial	N/4106	--	
10591	USGS	78	2	72-76	Observation	--	Upper Glacial	NE/4100	--	
10592	USGS	73	2	67-71	Observation	--	Upper Glacial	E/5450	--	
10593	USGS	77	2	73-77	Observation	--	Upper Glacial	NW/3000	--	
10594	USGS	76	2	73-76	Observation	--	Upper Glacial	NW/2150	--	
10595	USGS	67	2	63-67	Observation	--	Upper Glacial	S/350	--	
10596	USGS	71	2	68-71	Observation	--	Upper Glacial	W/2500	--	
10597	USGS	66	2	63-66	Observation	--	Upper Glacial	W/3500	--	
10598	USGS	77	2	73-77	Observation	--	Upper Glacial	W/3500	--	
10599	USGS	67	2	63-67	Observation	--	Upper Glacial	S/3278	--	
10600	USGS	61	2	57-61	Observation	--	Upper Glacial	S/4244	--	
10601	USGS	67	2	63-67	Observation	--	Upper Glacial	S/4100	--	
10602	USGS	56	2	52-56	Observation	--	Upper Glacial	S/6100	--	
10603	USGS	61	2	57-61	Observation	--	Upper Glacial	S/6969	--	
10623	USGS	72	2	68-72	Observation	--	Upper Glacial	NE/750	--	
10624	USGS	194	2	190-194	Observation	--	Upper Glacial	S/4800	--	
10625	USGS	67	2	63-67	Observation	--	Upper Glacial	SE/1000	--	
10626	USGS	67	2	63-67	Observation	--	Upper Glacial	SE/2600	--	
10627	USGS	310	4	300	Observation	--	Upper Glacial	S/5037	--	
10628	USGS	67	2	63-67	Observation	--	Upper Glacial	SE/5350	--	
10629	USGS	109	2	105-109	Observation	--	--	S/350	--	
10630	USGS	300	4	280-285	Observation	--	--	SW/3500	--	
10631	USGS	67	2	63-67	Observation	--	--	S/3800	--	

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10632	USGS	67	2	63-67	Observation	--	--	SE/3950	--	
10633	USGS	67	2	63-67	Observation	--	--	SE/5120	--	
10634	USGS	67	2	63-67	Observation	--	--	SE/5200	--	
10635	USGS	45	2	45-49	Observation	--	--	S/6250	--	
10636	USGS	56	2	52-56	Observation	--	--	SW/6200	--	
10812	USGS	93	2	89-93	Observation	--	Magothy	NW/4050	--	
10813	USGS	67	2	63-67	Observation	--	Upper Glacial	S/4750	--	
10814	USGS	72	2	68-72	Observation	--	Magothy	SE/7300	--	
10815	USGS	61	2	57-61	Observation	--	Upper Glaical	SW/7700	--	
10817	USGS	51	2	47-51	Observation	--	Upper Glacial	SE/8,900	--	
10818	USGS	56	2	52-56	Observation	--	--	SE/8000	--	
10820	USGS	72	2	68-72	Observation	--	Magothy	W/6000	--	
10821	USGS	56	2	52-56	Observation	--	--	SE/6700	--	
10822	USGS	130	2	126-130	Observation	--	--	S/3950	--	
10977	DPW	693.5	4	668-693.5	Observation	--	--	SE/8200	--	
10997	USGS	525.3	4	510-525	Withdrawal	Public Supply	--	--	--	
10998	USGS	324	2	309-324	Withdrawal	Public Supply	--	--	--	
10999	USGS	335	4	320-335	Withdrawal	Public Supply	--	--	--	
11000	USGS	131	2	121-131	--	--	--	--	--	
11004	Village of Farmingdale	347	12	260-347	Withdrawal	Public Supply	--	SE/12000	1287*	
11145	--	--	--	--	--	--	--	SE/12000	--	
A-1	Hooker/Ruco	67	2	54-67	Observation	--	--	NW/3898	--	
A-2	Hooker/Ruco	112	2	105-112	Observation	--	--	NW/3898	--	
B-1	Hooker/Ruco	69	2	49-69	Observation	--	--	NW/4000	--	
B-2	Hooker/Ruco	104	2	86-104	Observation	--	--	NW/4000	--	
C-1	Hooker/Ruco	70	2	50-70	Observation	--	--	NW/3300	--	

Table 1. Wells Within a three-Mile Radius of Grumman Aerospace Corporation, Bethpage, New York.

NYS Well ID #	Owner/ User	Total Depth of Well (feet)	Diameter of Well (inches)	Screened Interval (feet)	Use of Well	Use of Water	Aquifer Screened	Compass Directions/ Distance(1) (feet)	Pumpage(2)	Pump Perf
C-2	Hooker/Ruco	124	2	114-124	Observation	--	--	NW/3300	--	-
D-1	Hooker/Ruco	65	2	45-65	Observation	--	--	NW/3100	--	-
D-2	Hooker/Ruco	91	2	86-91	Observation	--	--	NW/3100	--	-
E-1	Hooker/Ruco	66	2	46-66	Observation	--	--	NW/3000	--	-
E-2	Hooker/Ruco	90	2	75-90	Observation	--	--	NW/3000	--	-
F-1	Hooker/Ruco	68	2	47.5-67.5	Observation	--	--	NW/2850	--	-
F-2	Hooker/Ruco	110	2	90-110	Observation	--	--	NW/2850	--	-

-- The information was either not available or not applicable.
* Units are in gallons per minute (gpm).
(1) Distance from center of Grumman facility.
(2) Units are in thousands of gallons unless indicated differently.
(3) Well has been abandoned.

Sources:

USGS (1982, 1987, 1988)
NYSDEC (1984, 1987, 1988)
LBG (1984)
Kilburn (1982)

A.2 Table 2 - Volatile Organic Compounds Detected in Wells Within a Three-Mile Radius of the Grumman Aerospace Corporation, Bethpage New York

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	1232	1937	1937	2240	2580	2580
Sample Date:	9/82	7/86	8/86	10/82	6/86	12/87
Well Depth (ft):	57	151	151	89	357	357
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<1	<1	<1	140	<1	<1
Tetrachloroethylene	<1	<1	<1	22	<1	<1
1,1,2-Trichlorotrifluoroethane	<1	<1	--	<1	<9	<1
1,1,1-Trichloroethane	<1	<4	3	1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	--
Chloroform	<1	<1	<1	1	<1	<1
Bromoform	<1	<1	<2	<1	<2	<1
Vinyl chloride	--	<1	--	--	--	--
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<1	--	<5	<9	--
Dibromochloromethane	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<4	4	<9	<4	<11	--
1,2-Dichloroethane	<4	<1	--	<4	--	<1
1,1-Dichloroethylene	<1	<1	--	<1	<9	--
Benzene	<4	<1	<3	<4	<4	<1
Chlorobenzene	<5	<1	<9	<5	<7	--
Dichlorobenzene	<10	--	<20	<10	<16	--
Ethylbenzene	<3	<1	<6	<3	<5	<1
Toluene	<4	<1	<7	<4	<5	<1
Xylene	<4	--	<9	<4	<9	--
Trichlorofluoromethane	--	--	--	--	--	--
1,2-Dichloroethylene	--	--	--	--	--	--
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	4	3	164	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	2580	2580	2580	2580	3618	3618
Sample Date:	3/88	6/88	9/88	12/88	11/86	3/88
Well Depth (ft):	357	357	357	357	420	420
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<1	<1
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<1	1
1,1,2-Trichlorotrifluoroethane	<0.5	<0.5	<0.5	<0.5	<8	<8
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<1	<1
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<2	<2
Chloroform	1	<0.5	<0.5	1	<1	<1
Bromoform	<0.5	<0.5	<0.5	<0.5	<2	<1
Vinyl chloride	<0.5	<0.5	<0.5	<0.5	<1	--
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<1	<1
Methylene chloride	<0.5	<0.5	<0.5	<0.5	--	<8
Dibromochloromethane	<0.5	<0.5	<0.5	<0.5	<1	<1
Bromodichloromethane	<0.5	<0.5	<0.5	<0.5	<1	<1
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<5	<5
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	--	--
1,1-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	--	<8
Benzene	<0.5	<0.5	<0.5	<0.5	<3	<3
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<3	<3
Dichlorobenzene	--	--	--	--	<25	<30
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<5	<6
Toluene	<0.5	<0.5	<0.5	<0.5	<3	<3
Xylene	--	--	--	--	<6	<8
Trichlorofluoromethane	--	--	--	--	<1	--
1,2-Dichloroethylene	--	--	--	--	<5	--
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	1	0	0	1	0	1

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	3876	3876	4043	4043	4043	4043
Sample Date:	11/86	3/88	1/86	2/86	5/87	12/87
Well Depth (ft):	385	385	374	374	374	374
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	6	2	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	<8	<8	<8	<1	<1	<10
1,1,1-Trichloroethane	<1	<1	<1	<10	<1	<1
1,1,2-Trichloroethane	<2	<2	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<2	<1	<2	<1	<1	<1
Vinyl chloride	<1	--	--	<1	<1	--
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Methylene chloride	--	--	<8	<2	<1	<10
Dibromochloromethane	1	<1	<1	<1	<1	<2
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<5	<5	<14	<1	<1	<5
1,2-Dichloroethane	--	--	--	<1	<1	--
1,1-Dichloroethylene	--	--	<8	<1	<1	<10
Benzene	<3	<3	<3	<1	<1	<3
Chlorobenzene	<3	<3	<3	<1	<1	<3
Dichlorobenzene	<25	<30	<9	--	--	<20
Ethylbenzene	<5	<6	<6	<1	<1	<5
Toluene	<3	<3	<6	<1	<1	<3
Xylene	<6	<8	<6	--	--	<6
Trichlorofluoromethane	<1	--	--	--	--	--
1,2-Dichloroethylene	<5	--	--	--	--	--
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	7	2	0	0	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDH (1985, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	4043	4043	4043	4043	4043	4043
Sample Date:	2/88	4/88	7/88	10/88	12/88	1/89
Well Depth (ft):	374	374	374	374	374	374
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<1	<0.5
1,1,2-Trichlorotrifluoroethane	--	--	--	--	--	--
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<1	<0.5
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	--	<0.5
Chloroform	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Bromoform	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Vinyl chloride	<0.5	<0.5	<0.5	<0.5	--	<0.5
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Methylene chloride	<0.5	<0.5	<0.5	<0.5	--	<0.5
Dibromochloromethane	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Bromodichloromethane	<0.5	<0.5	<0.5	<0.5	<1	<0.5
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<1	<0.5
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	--	<0.5
1,1-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Benzene	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Dichlorobenzene	--	--	--	--	<1	--
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Xylene	--	--	--	--	<1	--
Trichlorofluoromethane	--	--	--	--	--	--
1,2-Dichloroethylene	--	--	--	--	--	--
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	0	0	0	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	4043	4451	4451	5302	5302	5302
Sample Date:	4/89	11/86	2/88	1/86	1/87	12/87
Well Depth (ft):	374	408	408	487	487	487
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<0.5	<1	<1	<1	<1	<1
Tetrachloroethylene	<0.5	4	9	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	--	<8	<9	<8	<9	<1
1,1,1-Trichloroethane	<0.5	<1	<1	<1	<2	<1
1,1,2-Trichloroethane	<0.5	<2	<1	<1	<4	--
Chloroform	<0.5	<1	<1	<1	<1	<1
Bromoform	<0.5	<2	<2	<2	<3	<1
Vinyl chloride	<0.5	<1	--	--	--	--
Carbon tetrachloride	<0.5	<1	<1	<1	<1	<1
Methylene chloride	<0.5	--	--	<8	<9	--
Dibromochloromethane	<0.5	<1	<2	<1	<3	<1
Bromodichloromethane	<0.5	<1	<1	<1	<2	<1
1,1-Dichloroethane	<0.5	<5	<6	<14	<6	--
1,2-Dichloroethane	<0.5	--	--	--	--	<1
1,1-Dichloroethylene	<0.5	--	--	<8	<9	--
Benzene	<0.5	<3	<3	<3	<3	<1
Chlorobenzene	<0.5	<3	<5	<3	<4	--
Dichlorobenzene	--	<25	<20	<9	<32	--
Ethylbenzene	<0.5	<5	<7	<6	<3	<1
Toluene	<0.5	<3	<4	<6	<3	<1
Xylene	--	<6	<8	<6	<4	--
Trichlorofluoromethane	--	<1	--	--	--	--
1,2-Dichloroethylene	--	<5	--	--	--	--
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	4	9	0	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	5302	5302	5302	5302	5302	5302
Sample Date:	3/88	6/88	8/88	9/88	12/88	3/89
Well Depth (ft):	487	487	487	487	487	487
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<0.5	--	<1	<0.5	<0.5	<0.5
Tetrachloroethylene	<0.5	--	<1	<0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	<0.5	--	<10	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	<0.5	--	<1	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	<0.5	--	<1	<0.5	<0.5	<0.5
Chloroform	<0.5	--	2	3	<0.5	<0.5
Bromoform	<0.5	--	<2	<0.5	<0.5	<0.5
Vinyl chloride	<0.5	--	--	<0.5	<0.5	<0.5
Carbon tetrachloride	<0.5	--	<1	<0.5	<0.5	<0.5
Methylene chloride	<0.5	--	<10	<0.5	<0.5	<0.5
Dibromochloromethane	<0.5	--	<2	<0.5	<0.5	<0.5
Bromodichloromethane	<0.5	--	<2	<0.5	<0.5	<0.5
1,1-Dichloroethane	<0.5	--	<2	<0.5	<0.5	<0.5
1,2-Dichloroethane	<0.5	--	--	<0.5	<0.5	<0.5
1,1-Dichloroethylene	<0.5	--	<10	<0.5	<0.5	<0.5
Benzene	<0.5	<0.5	<3	<0.5	<0.5	<0.5
Chlorobenzene	<0.5	<0.5	<5	<0.5	<0.5	<0.5
Dichlorobenzene	--	--	<12	--	--	--
Ethylbenzene	<0.5	<0.5	<4	<0.5	<0.5	<0.5
Toluene	<0.5	<0.5	<5	<0.5	<0.5	<0.5
Xylene	--	--	<3	--	--	--
Trichlorofluoromethane	--	--	--	--	--	--
1,2-Dichloroethylene	--	--	--	--	--	--
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	0	2	3	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	6150	6150	6150	6150	6150	6150
Sample Date:	1/86	2/86	6/87	12/87	3/88	4/88
Well Depth (ft):	612	612	612	612	612	612
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<1	<1	<1	<1	<0.5	<0.5
Tetrachloroethylene	<1	<1	<1	<1	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	<8	<1	<1	<10	--	--
1,1,1-Trichloroethane	<1	<10	<1	<1	<0.5	<0.5
1,1,2-Trichloroethane	<1	<1	<1	<1	<0.5	<0.5
Chloroform	<1	<1	<1	<1	<0.5	<0.5
Bromoform	<2	<1	<1	<1	<0.5	<0.5
Vinyl chloride	--	<1	<1	--	<0.5	<0.5
Carbon tetrachloride	<1	<1	<1	<1	<0.5	<0.5
Methylene chloride	<8	<2	<1	<10	<0.5	<0.5
Dibromochloromethane	<1	<1	<1	<2	<0.5	<0.5
Bromodichloromethane	<1	<1	<1	<1	<0.5	<0.5
1,1-Dichloroethane	<14	<1	<1	<5	<0.5	<0.5
1,2-Dichloroethane	--	<1	<1	--	<0.5	<0.5
1,1-Dichloroethylene	<8	<1	<1	<10	<0.5	<0.5
Benzene	<3	<1	<1	<3	<0.5	<0.5
Chlorobenzene	<3	<1	<1	<3	<0.5	<0.5
Dichlorobenzene	<9	--	--	<20	--	--
Ethylbenzene	<6	<1	<1	<5	<0.5	<0.5
Toluene	<6	<1	<1	<3	<0.5	<0.5
Xylene	<6	--	--	<6	--	--
Trichlorofluoromethane	--	--	--	--	--	--
1,2-Dichloroethylene	--	--	--	--	--	--
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	0	0	0	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDH (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	6150	6150	6150	6150	6192	6193
Sample Date:	7/88	10/88	1/89	4/89	4/86	3/86
Well Depth (ft):	612	612	612	612	632	472
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<1	<1
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<1	<1
1,1,2-Trichlorotrifluoroethane	--	--	--	--	<1	<1
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<10	<10
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<1	<1
Chloroform	<0.5	<0.5	<0.5	<0.5	--	<1
Bromoform	<0.5	<0.5	<0.5	<0.5	<1	<1
Vinyl chloride	<0.5	<0.5	<0.5	<0.5	<1	<1
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<1	<1
Methylene chloride	<0.5	<0.5	<0.5	<0.5	--	<1
Dibromochloromethane	<0.5	<0.5	<0.5	<0.5	<1	<1
Bromodichloromethane	<0.5	<0.5	<0.5	<0.5	<1	<1
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<1	<1
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<1	<1
1,1-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	--	<1
Benzene	<0.5	<0.5	<0.5	<0.5	--	<1
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<1	<1
Dichlorobenzene	--	--	--	--	--	--
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	--	<1
Toluene	<0.5	<0.5	<0.5	<0.5	--	<1
Xylene	--	--	--	--	--	--
Trichlorofluoromethane	--	--	--	--	--	--
1,2-Dichloroethylene	--	--	--	--	--	--
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	0	0	0	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	6417	6417	6580	6644	6644	6644
Sample Date:	8/82	7/86	11/86	7/86	8/86	10/87
Well Depth (ft):	60	60	601	227	227	227
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	1	<1	<1	<1	<1	<1
Tetrachloroethylene	2	1	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	--	<9	<8	<1	--	--
1,1,1-Trichloroethane	28	7	<1	<5	<1	<1
1,1,2-Trichloroethane	<1	<1	<2	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<1	<2	<2	<1	<2	<1
Vinyl chloride	--	--	<1	<1	--	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Methylene chloride	14*	<9	<8	<1	--	<1
Dibromochloromethane	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	23	<11	<5	<1	<9	<1
1,2-Dichloroethane	<5	--	--	<1	--	<1
1,1-Dichloroethylene	2	<9	<8	<1	--	<1
Benzene	<4	<4	<3	<1	<3	<2
Chlorobenzene	<5	<7	<3	<1	<9	<1
Dichlorobenzene	<10	<16	<25	--	<20	--
Ethylbenzene	<3	<5	<5	<1	<6	<2
Toluene	<4	<5	<3	<1	<7	<2
Xylene	<4	<9	<6	--	<9	--
Trichlorofluoromethane	--	--	--	--	--	--
1,2-Dichloroethylene	--	--	--	--	--	--
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	70*	8	0	0	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDH (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	6644	6644	6644	6644	6644	6644
Sample Date:	12/87	3/88	6/88	9/88	11/88	12/88
Well Depth (ft):	227	227	227	227	227	227
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	1	0.7	<0.5	1.4	1	0.6
Tetrachloroethylene	<1	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	<8	--	--	--	--	--
1,1,1-Trichloroethane	1	<0.5	<0.5	1.9	<0.5	0.6
1,1,2-Trichloroethane	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	<1	0.8	<0.5	<0.5	<0.5	<0.5
Bromoform	<2	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl chloride	--	<0.5	<0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride	<8	<0.5	<0.5	<5	<0.5	<0.5
Dibromochloromethane	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	<1	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	<6	0.5	<0.5	0.9	<0.5	<0.5
1,2-Dichloroethane	--	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethylene	<8	<0.5	<0.5	<0.5	<0.5	<0.5
Benzene	<3	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	<3	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorobenzene	<30	--	--	--	--	--
Ethylbenzene	<5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	<3	<0.5	<0.5	<0.5	<0.5	<0.5
Xylene	<8	--	--	--	--	--
Trichlorofluoromethane	--	--	--	--	--	--
1,2-Dichloroethylene	--	--	--	--	--	--
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	2	2	0	4.2	1	1.2

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	6644	6644	6915	6916	6916	7004
Sample Date:	3/89	6/89	11/86	11/86	3/88	10/86
Well Depth (ft):	227	227	516	613	613	150
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<0.5	<0.5	<1	<1	<1	59
Tetrachloroethylene	<0.5	<0.5	<1	<1	<1	5
1,1,2-Trichlorotrifluoroethane	--	--	<8	<8	<8	<8
1,1,1-Trichloroethane	<0.5	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	<0.5	<0.5	<2	<2	<2	<2
Chloroform	<0.5	<0.5	--	15	<1	<1
Bromoform	<0.5	<0.5	3	3	<1	<2
Vinyl chloride	<0.5	<0.5	<1	<1	--	--
Carbon tetrachloride	<0.5	<0.5	<1	<1	<1	<1
Methylene chloride	<0.5	<0.5	<8	<8	<8	<8
Dibromochloromethane	<0.5	<0.5	--	--	<1	<1
Bromodichloromethane	<0.5	<0.5	1	1	<1	<1
1,1-Dichloroethane	<0.5	<0.5	<5	<5	<5	<5
1,2-Dichloroethane	<0.5	<0.5	--	--	--	--
1,1-Dichloroethylene	<0.5	<0.5	<8	<8	<8	<8
Benzene	<0.5	<0.5	<3	<3	<3	<3
Chlorobenzene	<0.5	<0.5	<3	<3	<3	<6
Dichlorobenzene	--	--	<25	<25	<30	<20
Ethylbenzene	<0.5	<0.5	<5	<5	<6	<10
Toluene	<0.5	<0.5	<3	<3	<3	<4
Xylene	--	--	<6	<6	<8	<10
Trichlorofluoromethane	--	--	<1	<1	--	<1
1,2-Dichloroethylene	--	--	<5	<5	--	9
1,3-Dichloropropene	--	--	2	2	--	<1
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	0	6	21	0	73

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	7004	7076	7076	7377	7377	7377
Sample Date:	5/87	11/86	1/88	3/86	5/86	7/86
Well Depth (ft):	150	674	674	758	758	758
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	54	<1	<1	<1	<1	<1
Tetrachloroethylene	4	<1	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	<7	<8	<11	<1	<1	<9
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<2	<2	<3	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<2	<2	<1	<1	<1	<2
Vinyl chloride	<1	<1	--	<1	<1	--
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Methylene chloride	<7	<8	<11	<1	<1	<9
Dibromochloromethane	<2	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<5	<5	<6	<1	<1	<11
1,2-Dichloroethane	--	--	--	<1	<1	--
1,1-Dichloroethylene	<7	<8	<11	<1	<1	<9
Benzene	<3	<3	<3	<1	<1	<4
Chlorobenzene	<4	<3	<4	<1	<1	<7
Dichlorobenzene	<20	<25	<20	--	--	<16
Ethylbenzene	<4	<5	<5	<1	<1	<5
Toluene	<4	<3	<4	<1	<1	<5
Xylene	<6	<6	<6	--	--	<9
Trichlorofluoromethane	--	<1	--	--	--	--
1,2-Dichloroethylene	7	<5	--	--	--	--
1,3-Dichloropropene	<2	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	65	0	0	0	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDH (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	7377	7377	7377	7377	7377	7377
Sample Date:	5/87	3/88	6/88	7/88	10/88	12/88
Well Depth (ft):	758	758	758	758	758	758
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<1	<0.5	<0.5	<0.5	<0.5	<1
Tetrachloroethylene	<1	<0.5	<0.5	<0.5	<0.5	<1
1,1,2-Trichlorotrifluoroethane	<1	--	--	--	--	--
1,1,1-Trichloroethane	<1	<0.5	<0.5	<0.5	<0.5	<1
1,1,2-Trichloroethane	<1	<0.5	<0.5	<0.5	<0.5	--
Chloroform	<1	<0.5	<0.5	<0.5	<0.5	<1
Bromoform	<1	<0.5	<0.5	<0.5	<0.5	<1
Vinyl chloride	<1	<0.5	<0.5	<0.5	<0.5	--
Carbon tetrachloride	<1	<0.5	<0.5	<0.5	<0.5	<1
Methylene chloride	<1	<0.5	<0.5	<0.5	<0.5	--
Dibromochloromethane	<1	<0.5	<0.5	<0.5	<0.5	<1
Bromodichloromethane	<1	<0.5	<0.5	<0.5	<0.5	<1
1,1-Dichloroethane	<1	<0.5	<0.5	<0.5	<0.5	<1
1,2-Dichloroethane	<1	<0.5	<0.5	<0.5	<0.5	--
1,1-Dichloroethylene	<1	<0.5	<0.5	<0.5	<0.5	<1
Benzene	<1	<0.5	<0.5	<0.5	<0.5	<1
Chlorobenzene	<1	<0.5	<0.5	<0.5	<0.5	<1
Dichlorobenzene	--	--	--	--	--	--
Ethylbenzene	<1	<0.5	<0.5	<0.5	<0.5	--
Toluene	<1	<0.5	<0.5	<0.5	<0.5	--
Xylene	--	--	--	--	--	--
Trichlorofluoromethane	--	--	--	--	--	--
1,2-Dichloroethylene	--	--	--	--	--	--
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	0	0	0	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDH (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	7377	7515	7515	7515	7515	7515
Sample Date:	3/89	2/86	11/86	5/87	12/87	2/88
Well Depth (ft):	758	352	352	352	352	352
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<0.5	<1	<1	<1	<1	<0.5
Tetrachloroethylene	<0.5	<1	<1	<1	<1	<0.5
1,1,2-Trichlorotrifluoroethane	--	<1	<8	<1	<10	--
1,1,1-Trichloroethane	<0.5	<5	<1	<1	<1	<0.5
1,1,2-Trichloroethane	<0.5	<1	<2	<1	<1	<0.5
Chloroform	2.60	<1	<1	<1	<1	<0.5
Bromoform	<0.5	<1	<2	<1	<1	<0.5
Vinyl chloride	<0.5	<1	--	<1	--	<0.5
Carbon tetrachloride	<0.5	<1	<1	<1	<1	<0.5
Methylene chloride	<0.5	<2	<8	<1	<10	<0.5
Dibromochloromethane	<0.5	<1	<1	<1	<2	<0.5
Bromodichloromethane	0.5	<1	<1	<1	<1	<0.5
1,1-Dichloroethane	<0.5	<1	<5	<1	<5	<0.5
1,2-Dichloroethane	<0.5	<1	--	<1	--	<0.5
1,1-Dichloroethylene	<0.5	<1	<8	<1	<10	<0.5
Benzene	<0.5	<1	<3	<1	<3	<0.5
Chlorobenzene	<0.5	<1	<3	<1	<3	<0.5
Dichlorobenzene	--	--	<25	--	<20	--
Ethylbenzene	<0.5	<1	<5	<1	<5	<0.5
Toluene	<0.5	<1	<3	<1	<3	<0.5
Xylene	--	--	<6	--	<6	--
Trichlorofluoromethane	--	--	--	--	--	--
1,2-Dichloroethylene	--	--	--	--	--	--
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	3.1	0	0	0	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDH (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	7515	7515	7515	7515	7515	7516
Sample Date:	4/88	7/88	10/88	1/89	4/89	3/86
Well Depth (ft):	352	352	352	352	352	589
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<1
1,1,2-Trichlorotrifluoroethane	--	--	--	--	--	<1
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<1
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Chloroform	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Bromoform	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Vinyl chloride	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Methylene chloride	<0.5	<0.8	<0.5	<0.5	<0.5	<1
Dibromochloromethane	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Bromodichloromethane	<0.5	<0.5	<0.5	<0.5	<0.5	<1
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<1
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<1
1,1-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Benzene	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Dichlorobenzene	--	--	--	--	--	--
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Toluene	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Xylene	--	--	--	--	--	--
Trichlorofluoromethane	--	--	--	--	--	--
1,2-Dichloroethylene	--	--	--	--	--	--
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	0	0	0	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	7516	7516	7516	7516	7516	7516
Sample Date:	3/88	5/88	8/88	10/88	12/88	1/89
Well Depth (ft):	589	589	589	589	589	589
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<1	<0.5
1,1,2-Trichlorotrifluoroethane	--	--	--	--	--	--
1,1,1-Trichloroethane	<0.5	--	<0.5	<0.5	<1	<0.5
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	--	<0.5
Chloroform	<0.5	--	<0.5	<0.5	<1	<0.5
Bromoform	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Vinyl chloride	<0.5	<0.5	<0.5	<0.5	--	<0.5
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Methylene chloride	<0.5	<0.5	<3.5	<0.5	--	<0.5
Dibromochloromethane	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Bromodichloromethane	<0.5	<0.5	<0.5	<0.5	<1	<0.5
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<1	<0.5
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	--	<0.5
1,1-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Benzene	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Dichlorobenzene	--	--	--	--	<1	--
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Xylene	--	--	--	--	<1	--
Trichlorofluoromethane	--	--	--	--	--	--
1,2-Dichloroethylene	--	--	--	--	--	--
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	0	0	0	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	7516	7518	7518	7534	7534	7535
Sample Date:	4/89	9/86	7/88	10/86	7/88	10/86
Well Depth (ft):	589	375	375	366	366	357
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<0.5	7	7	62	130	150
Tetrachloroethylene	<0.5	<1	<1	84	96	50
1,1,2-Trichlorotrifluoroethane	--	<10	<9	26	--	110
1,1,1-Trichloroethane	<0.5	5	5	24	17	75
1,1,2-Trichloroethane	<0.5	<2	<2	<2	<2	<2
Chloroform	<0.5	<1	<1	<1	<1	<1
Bromoform	<0.5	<3	<2	<2	<2	<2
Vinyl chloride	<0.5	<1	<1	170	--	4
Carbon tetrachloride	<0.5	<1	<1	<1	<1	<1
Methylene chloride	<0.5	<10	--	--	--	--
Dibromochloromethane	<0.5	<1	<2	<1	<2	<1
Bromodichloromethane	<0.5	<1	<1	<1	<1	<1
1,1-Dichloroethane	<0.5	<9	<5	<5	<5	<5
1,2-Dichloroethane	<0.5	--	--	--	--	--
1,1-Dichloroethylene	<0.5	<10	--	--	--	--
Benzene	<0.5	<3	<3	<3	<3	<3
Chlorobenzene	<0.5	<5	<4	<3	<4	<3
Dichlorobenzene	--	<25	<17	<25	<17	<25
Ethylbenzene	<0.5	<4	<4	<5	<4	<5
Toluene	<0.5	<5	<4	<3	<4	<3
Xylene	--	<6	<5	<20	<5	<6
Trichlorofluoromethane	--	<1	<1	<1	<1	88*
1,2-Dichloroethylene	--	<4	<8	38	82	<5
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	12	12	404	325	477*

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	7535	7536	7536	7635	7635	7636
Sample Date:	7/88	9/86	7/88	9/86	7/88	10/86
Well Depth (ft):	357	436	436	394	394	373
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	68	59	82	810	1600	3
Tetrachloroethylene	160	5	7	130	88	4
1,1,2-Trichlorotrifluoroethane	37	10	22	47	--	<8
1,1,1-Trichloroethane	130	37	55	12	10	6
1,1,2-Trichloroethane	<2	<2	<1	<2	<2	<2
Chloroform	2	<1	<1	<1	<1	<1
Bromoform	<2	<3	<2	<2	<2	<2
Vinyl chloride	<1	<1	4	8.7	2	--
Carbon tetrachloride	3	<1	<1	<1	<1	<1
Methylene chloride	--	--	--	--	--	--
Dibromochloromethane	<2	<1	<1	<1	<2	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<5	<9	<4	<5	<5	<5
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	--	--	--	--	--	--
Benzene	<3	<3	<3	<3	<3	<3
Chlorobenzene	<4	<5	<3	<6	<4	<6
Dichlorobenzene	<17	<25	<20	<20	<17	<20
Ethylbenzene	<4	<6	<4	<10	<4	<10
Toluene	<4	<5	<3	<4	<4	<4
Xylene	<5	<6	<5	<10	<5	<10
Trichlorofluoromethane	55	<2	<1	<1	<1	<1
1,2-Dichloroethylene	<8	<4	<8	25	25	<4
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	455	111	170	1032.7	1725	13

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	7636	7637	7637	7798	7852	7852
Sample Date:	7/88	9/86	7/88	5/87	7/86	8/86
Well Depth (ft):	436	490	490	64	457	457
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	54	13	14	<1	<1	<1
Tetrachloroethylene	5	6	5	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	<10	<10	<10	<7	<1	--
1,1,1-Trichloroethane	9	2	2	<1	<2	<1
1,1,2-Trichloroethane	<1	<2	<1	<2	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<2	<3	<2	<2	<1	<2
Vinyl chloride	3	<1	1	<1	<1	--
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Methylene chloride	--	--	--	--	<1	--
Dibromochloromethane	<1	<1	<1	<2	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<4	<9	<4	<5	<1	<9
1,2-Dichloroethane	--	--	--	--	<1	--
1,1-Dichloroethylene	--	--	--	--	<1	--
Benzene	<3	<3	<3	<3	<1	<3
Chlorobenzene	<3	<5	<3	<4	<1	<9
Dichlorobenzene	<20	<25	<20	<20	--	<20
Ethylbenzene	<4	<6	<4	<4	<1	<6
Toluene	<3	<5	<3	<4	<1	<7
Xylene	<5	<6	<5	<6	--	<9
Trichlorofluoromethane	<1	<1	<1	<1	--	--
1,2-Dichloroethylene	<8	<4	<8	<7	--	--
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	71	21	22	0	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	7852	7852	7852	7852	7852	7852
Sample Date:	10/87	12/87	3/7/88	6/88	9/88	11/88
Well Depth (ft):	457	457	457	457	457	457
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<1	<1	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene	<1	<1	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	--	<8	--	--	--	--
1,1,1-Trichloroethane	<1	<1	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	<1	<1	<0.5	<0.5	<0.5	<0.5
Chloroform	<1	<1	<0.5	<0.5	<0.5	<0.5
Bromoform	<1	<2	<0.5	<0.5	<0.5	<0.5
Vinyl chloride	<1	--	<0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	<1	<1	<0.5	<0.5	<0.5	<0.5
Methylene chloride	<1	<8	2.5*	<0.5	<6	<0.5
Dibromochloromethane	<1	<1	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	<1	<1	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	<1	<6	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	<1	--	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethylene	<1	<8	<0.5	<0.5	<0.5	<0.5
Benzene	<2	<3	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	<1	<3	<0.5	<0.5	<0.5	<0.5
Dichlorobenzene	--	<30	--	--	--	--
Ethylbenzene	<2	<5	<0.5	<0.5	<0.5	<0.5
Toluene	<2	<3	<0.5	<0.5	<0.5	<0.5
Xylene	--	<8	--	--	--	--
Trichlorofluoromethane	--	--	--	--	--	--
1,2-Dichloroethylene	--	--	--	--	--	--
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	0	2.5*	0	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDH (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	7852	7852	7852	8004	8124	8124
Sample Date:	12/88	3/89	6/89	11/86	10/86	7/88
Well Depth (ft):	457	457	457	745	543	543
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<0.5	<0.5	<0.5	<1	320	170
Tetrachloroethylene	<0.5	<0.5	<0.5	<1	20	33
1,1,2-Trichlorotrifluoroethane	--	--	--	<8	--	--
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<1	<1	1
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<2	<2	<2
Chloroform	<0.5	<0.5	<0.5	<1	<1	<1
Bromoform	<0.5	<0.5	<0.5	<2	<2	<2
Vinyl chloride	<0.5	<0.5	<0.5	<1	--	<1
Carbon tetrachloride	<0.5	<0.5	<0.5	<1	<1	<1
Methylene chloride	<0.5	<0.5	<0.5	--	--	--
Dibromochloromethane	<0.5	<0.5	<0.5	<1	<1	<2
Bromodichloromethane	<0.5	<0.5	<0.5	<1	<1	<1
1,1-Dichloroethane	<0.5	<0.5	<0.5	<5	<5	<5
1,2-Dichloroethane	<0.5	<0.5	<0.5	--	--	--
1,1-Dichloroethylene	<0.5	<0.5	<0.5	--	--	--
Benzene	<0.5	<0.5	<0.5	<3	<3	<3
Chlorobenzene	<0.5	<0.5	<0.5	<3	<6	<4
Dichlorobenzene	--	--	--	<25	<20	<17
Ethylbenzene	<0.5	<0.5	<0.5	<5	<10	<4
Toluene	<0.5	<0.5	<0.5	<3	<4	<4
Xylene	--	--	--	<6	<10	<5
Trichlorofluoromethane	--	--	--	<1	<1	<1
1,2-Dichloroethylene	--	--	--	<5	<4	12
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	0	0	0	340	216

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDH (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	8154	8154	8321	8321	8321	8321
Sample Date:	9/86	7/88	4/86	3/87	12/87	2/88
Well Depth (ft):	520	520	674	674	674	674
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	500	800	<1	<1	<1	<1
Tetrachloroethylene	27	35	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	37	--	<11	<7	<1	<9
1,1,1-Trichloroethane	8	10	<1	<1	<1	<1
1,1,2-Trichloroethane	<2	<2	<1	<1	--	<1
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<2	<2	<2	<1	--	<2
Vinyl chloride	<1	--	--	--	--	--
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Methylene chloride	--	--	<11	<7	--	<9
Dibromochloromethane	<1	<2	<1	<1	<1	<2
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<5	<5	<18	<4	--	<6
1,2-Dichloroethane	--	--	--	--	<1	--
1,1-Dichloroethylene	37	--	<11	<7	--	<9
Benzene	<3	<3	<3	<3	<1	<3
Chlorobenzene	<6	<4	<4	<4	--	<5
Dichlorobenzene	<20	<17	<15	<10	--	<20
Ethylbenzene	<10	<4	<5	<4	<1	<7
Toluene	<4	<4	--	<4	<1	<4
Xylene	<10	<5	<5	<4	--	<8
Trichlorofluoromethane	<1	<1	--	--	--	--
1,2-Dichloroethylene	18	21	--	--	--	--
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	627	866	0	0	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	8480	8480	8480	8480	8522	8525
Sample Date:	8/88	10/88	3/89	5/89	2/82	9/86
Well Depth (ft):	655	655	655	655	125	503
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	2	2
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<1	18
1,1,2-Trichlorotrifluoroethane	--	--	--	--	--	<10
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	8	<1
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	--	<2
Chloroform	0.5	<0.5	<0.5	<0.5	3	<1
Bromoform	<0.5	<0.5	<0.5	<0.5	<1	<3
Vinyl chloride	<0.5	<0.5	<0.5	<0.5	--	--
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<1	<1
Methylene chloride	<0.5	<0.5	<0.5	<0.5	--	<10
Dibromochloromethane	<0.5	<0.5	<0.5	<0.5	--	<1
Bromodichloromethane	<0.5	<0.5	<0.5	<0.5	<1	<1
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<30	<9
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<20	--
1,1-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<1	<10
Benzene	<0.5	<0.5	<0.5	<0.5	<3	<3
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<3	<5
Dichlorobenzene	--	--	--	--	<10	<25
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<3	<4
Toluene	<0.5	<0.5	<0.5	<0.5	<3	<5
Xylene	--	--	--	--	<3	<6
Trichlorofluoromethane	--	--	--	--	--	--
1,2-Dichloroethylene	--	--	--	--	--	--
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0.5	0	0	0	13	20

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	8526	8643	8643	8676	8767	8768
Sample Date:	9/86	10/86	7/88	11/86	3/88	7/86
Well Depth (ft):	601	467	--	645	645	683
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	2	29	37	<1	<1	<1
Tetrachloroethylene	3	99	120	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	<10	<8	<9	<8	<8	<9
1,1,1-Trichloroethane	3	<1	1	<1	<1	<1
1,1,2-Trichloroethane	<2	<2	<2	<2	<2	<1
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<3	<2	<2	<2	<1	<2
Vinyl chloride	--	--	3	<1	--	--
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Methylene chloride	<10	--	--	<8	<8	<9
Dibromochloromethane	<1	<1	<2	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<9	<5	<5	<5	<5	<11
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	<10	--	--	<8	<8	<9
Benzene	<3	<3	<3	<3	<3	<4
Chlorobenzene	<5	<6	<4	<3	<3	<7
Dichlorobenzene	<25	<20	<17	<25	<30	<16
Ethylbenzene	<4	<10	<4	<5	<6	<5
Toluene	<5	<4	<4	<3	<3	<5
Xylene	<6	<10	<5	<6	<8	<9
Trichlorofluoromethane	--	<1	<1	<1	--	--
1,2-Dichloroethylene	--	6	20	<5	--	--
1,3-Dichloropropene	--	--	--	<1	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	8	134	181	0	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	8778	8779	8816	8816	8941	9079
Sample Date:	11/86	8/86	10/86	7/88	11/86	11/82
Well Depth (ft):	590	585	500	--	775	70
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<1	<1	35	11	4	<10
Tetrachloroethylene	<1	<1	6	3	<1	<10
1,1,2-Trichlorotrifluoroethane	<8	<9	<8	<10	<8	--
1,1,1-Trichloroethane	<1	<1	5	4	<1	<10
1,1,2-Trichloroethane	<2	<1	<2	<1	<2	<10
Chloroform	<1	<1	<1	<1	<1	12
Bromoform	<2	<2	<2	<2	<2	<10
Vinyl chloride	<1	--	--	4	<1	<10
Carbon tetrachloride	<1	<1	<1	<1	<1	<10
Methylene chloride	<8	<9	--	--	<8	400*
Dibromochloromethane	<1	<1	<1	<1	<1	<10
Bromodichloromethane	<1	<1	<1	<1	<1	<10
1,1-Dichloroethane	<5	<9	<5	<4	<5	<10
1,2-Dichloroethane	--	--	--	--	--	28
1,1-Dichloroethylene	<8	<9	--	--	<8	<10
Benzene	<3	<3	<3	<3	<3	86
Chlorobenzene	<3	<9	<6	<3	<3	<10
Dichlorobenzene	<25	<20	<20	<20	<25	--
Ethylbenzene	<5	<6	<10	<4	<5	<10
Toluene	<3	<7	<4	<3	<3	<10
Xylene	<6	<9	<10	<5	<6	<10
Trichlorofluoromethane	<1	--	<1	<1	<1	--
1,2-Dichloroethylene	<5	--	<4	<8	<5	--
1,3-Dichloropropene	<2	--	--	--	<1	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	0	46	22	4	526*

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	9079	9079	9079	9079	9088	9088
Sample Date:	10/86	6/88	10/88	5/87	9/82	10/86
Well Depth (ft):	70	70	70	70	68	68
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	12	4	3	7	2	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	<8	<10	<3	<7	<1	--
1,1,1-Trichloroethane	<5	<1	<1	<1	<1	<5
1,1,2-Trichloroethane	<2	<1	<1	<2	--	<2
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<2	<2	<1	<2	<1	<2
Vinyl chloride	<1	<1	<1	<1	--	--
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Methylene chloride	<8	--	--	<7	7*	10*
Dibromochloromethane	<1	<1	<1	<2	--	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<5	<4	8	<5	<4	<5
1,2-Dichloroethane	--	--	--	--	<4	--
1,1-Dichloroethylene	<8	--	<25	<7	<1	--
Benzene	<18	130	250	60	<4	<18
Chlorobenzene	<6	<3	<3	<4	<5	<6
Dichlorobenzene	<20	<20	<15	<20	<10	<20
Ethylbenzene	<10	<4	<3	<4	<3	<10
Toluene	<4	<3	<6	<4	<4	<4
Xylene	<10	14	22	<6	<4	<10
Trichlorofluoromethane	<1	<1	<1	<1	--	<1
1,2-Dichloroethylene	<4	14	<6	15	--	<4
1,3-Dichloropropene	<1	--	--	<2	--	<1
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	12	162	283	82	9*	10*

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	9088	9180	9338	9338	9338	9338
Sample Date:	9/87	11/86	2/86	10/86	1/87	9/87
Well Depth (ft):	68	635	646	646	646	646
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<1	1	<1	<1	<1	<1
Tetrachloroethylene	2	20	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	<6	<8	--	<8	<9	<6
1,1,1-Trichloroethane	<1	<1	<1	<5	<2	<1
1,1,2-Trichloroethane	<1	<2	<1	<2	<4	<1
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<2	<2	<1	<2	<3	<2
Vinyl chloride	--	<1	<1	--	--	--
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Methylene chloride	<6	<8	<1	<8	<9	<6
Dibromochloromethane	<1	<1	<1	<1	<3	<1
Bromodichloromethane	<2	<1	<1	<1	<2	<2
1,1-Dichloroethane	<5	<5	<1	<5	<6	<5
1,2-Dichloroethane	--	--	<1	--	--	--
1,1-Dichloroethylene	<6	<8	<1	<8	<9	<6
Benzene	<3	<3	<1	<18	<3	<3
Chlorobenzene	<4	<3	<1	<6	<4	<4
Dichlorobenzene	<20	<25	--	<20	<32	<20
Ethylbenzene	<4	<5	<1	<10	<3	<4
Toluene	<3	<3	<1	<4	<3	<3
Xylene	<6	<6	<1	<10	<4	<6
Trichlorofluoromethane	--	<1	--	--	--	--
1,2-Dichloroethylene	--	<15	--	--	--	--
1,3-Dichloropropene	--	<1	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	2	21	0	0	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	9338	9338	9338	9338	9338	9591
Sample Date:	2/88	4/88	5/88	8/88	6/89	11/86
Well Depth (ft):	646	646	646	646	646	682
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<1
1,1,2-Trichlorotrifluoroethane	--	--	--	--	--	<8
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<1
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<2
Chloroform	<0.5	<0.5	<0.5	0.5	<0.5	<1
Bromoform	<0.5	<0.5	<0.5	<0.5	<0.5	<2
Vinyl chloride	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Methylene chloride	<0.5	<0.5	<0.5	<7.5	<0.5	<8
Dibromochloromethane	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Bromodichloromethane	<0.5	<0.5	<0.5	<0.5	<0.5	<1
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<5
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	--
1,1-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<8
Benzene	<0.5	<0.5	<0.5	<0.5	<0.5	<3
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<3
Dichlorobenzene	--	--	--	--	--	<25
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<5
Toluene	<0.5	<0.5	<0.5	<0.5	<0.5	<3
Xylene	--	--	--	--	--	<6
Trichlorofluoromethane	--	--	--	--	--	<1
1,2-Dichloroethylene	--	--	--	--	--	<5
1,3-Dichloropropene	--	--	--	--	--	<1
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	0	0	0.5	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	9591	9654	9654	9654	9654	9918
Sample Date:	3/88	9/86	4/87	6/88	10/88	9/86
Well Depth (ft):	682	53	53	77	77	77
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	<9	<10	<7	<10	<3	<10
1,1,1-Trichloroethane	<1	17	4	<1	<1	<1
1,1,2-Trichloroethane	<1	<2	<2	<1	<1	<2
Chloroform	<1	<1	<1	<1	1	<1
Bromoform	<2	<3	<2	<2	<1	<3
Vinyl chloride	--	--	<1	<1	<1	--
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Methylene chloride	<9	--	--	--	--	<10
Dibromochloromethane	<2	<1	<2	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<6	<9	<5	<4	<2	<9
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	<9	--	--	--	<25	<10
Benzene	<3	<3	<3	<3	<3	<3
Chlorobenzene	<5	<5	<4	<3	<3	<5
Dichlorobenzene	<20	<25	<20	<20	<6	<25
Ethylbenzene	<7	<4	<4	<4	<3	<4
Toluene	<4	<5	<4	<3	<6	<5
Xylene	<8	<6	<6	<5	<4	<6
Trichlorofluoromethane	--	<1	<1	<1	<1	<1
1,2-Dichloroethylene	--	<4	<7	<8	<6	<4
1,3-Dichloropropene	--	--	--	--	--	<1
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	17	4	0	1	0

ug/L Micrograms per liter.

* Laboratory contamination suspected.

-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	9920	9920	9920	9921	9921	9921
Sample Date:	5/82	9/86	11/88	4/82	10/86	5/87
Well Depth (ft):	89	89	89	62	62	62
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	2	<1	<2	66	63	64
Tetrachloroethylene	8	<1	<1	3	3	2
1,1,2-Trichlorotrifluoroethane	--	<10	<2	--	<8	<7
1,1,1-Trichloroethane	22	<1	<1	13	<5	<1
1,1,2-Trichloroethane	<1	<2	<2	<1	<2	<2
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<1	<3	<2	<1	<2	<2
Vinyl chloride	--	--	<1	--	<1	<1
Carbon tetrachloride	<1	<1	<2	<1	<1	<1
Methylene chloride	<10	<10	--	<10	<8	<7
Dibromochloromethane	<1	<1	<1	<1	<1	<2
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<30	<9	<2	<30	<5	<5
1,2-Dichloroethane	<20	--	--	<20	--	--
1,1-Dichloroethylene	1	<10	<25	<1	<8	<7
Benzene	<3	<3	<3	<3	<18	260
Chlorobenzene	<3	<5	<3	<3	<6	<4
Dichlorobenzene	<10	<25	<12	<10	<20	<20
Ethylbenzene	<3	<6	<3	<3	<10	<4
Toluene	<3	<5	<5	<3	<4	<4
Xylene	<3	<6	<3	16	<10	27
Trichlorofluoromethane	--	<1	<1	--	--	<1
1,2-Dichloroethylene	--	<4	<15	--	<14	<7
1,3-Dichloropropene	--	<1	--	--	<1	<2
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	33	0	0	98	66	353

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	9921	9921	9922	9922	9929	9929
Sample Date:	6/88	10/88	6/88	10/88	5/82	9/86
Well Depth (ft):	62	62	41	41	42	42
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	50	77	<1	<1	<1	<1
Tetrachloroethylene	2	3	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	<10	<2	<10	<3	--	<10
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<2	<1	<1	--	<2
Chloroform	7	6	<1	<1	2	<1
Bromoform	<2	<2	<2	<1	<1	<3
Vinyl chloride	<1	<1	<1	<1	--	--
Carbon tetrachloride	<1	<2	<1	<1	<1	<1
Methylene chloride	--	--	--	--	<10	<10
Dibromochloromethane	<1	<1	<1	<1	--	<1
Bromodichloromethane	<1	<1	<1	<1	1	<1
1,1-Dichloroethane	<4	6	<4	<2	<30	<9
1,2-Dichloroethane	--	--	--	--	<20	--
1,1-Dichloroethylene	--	<25	--	<25	<1	<10
Benzene	190	250	<3	<3	<3	<3
Chlorobenzene	<3	<3	<3	<3	<3	<5
Dichlorobenzene	<20	<12	<20	<6	--	<25
Ethylbenzene	<4	<3	<4	<3	<3	<4
Toluene	<3	<5	<3	<6	<3	<5
Xylene	47	92	<5	<4	<3	<6
Trichlorofluoromethane	<1	<1	<1	<1	--	<1
1,2-Dichloroethylene	<8	<15	<8	<6	--	<4
1,3-Dichloropropene	--	--	--	--	--	<1
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	296	434	0	0	3	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDH (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	9929	9931	9931	9931	9931	9931
Sample Date:	2/87	3/82	12/86	9/87	6/88	10/88
Well Depth (ft):	43	73	73	73	73	73
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<1	7	<1	1	<1	1
Tetrachloroethylene	<1	4	<1	3	<1	1
1,1,2-Trichlorotrifluoroethane	<8	--	<9	<6	<10	<3
1,1,1-Trichloroethane	<1	5	<1	2	<1	<1
1,1,2-Trichloroethane	<1	<1	<2	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<2	<1	<2	<2	<2	<2
Vinyl chloride	--	--	--	--	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Methylene chloride	<8	<10	<9	<6	--	--
Dibromochloromethane	<2	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<2	<1	<1
1,1-Dichloroethane	<5	<30	<10	<5	<4	<2
1,2-Dichloroethane	--	<20	--	--	--	--
1,1-Dichloroethylene	<8	<1	<9	<6	--	<25
Benzene	<3	<3	<3	<3	<3	<3
Chlorobenzene	<7	<3	<3	<4	<3	<3
Dichlorobenzene	<25	<10	<35	<20	<20	<6
Ethylbenzene	<6	<3	<4	<4	<4	<3
Toluene	<4	<3	<4	<3	<3	<6
Xylene	<4	<3	<7	<6	<5	<4
Trichlorofluoromethane	--	--	--	--	<1	<1
1,2-Dichloroethylene	--	--	--	--	<8	<6
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	16	0	6	0	2

ug/L Micrograms per liter.
- Laboratory contamination suspected.

-- Not analyzed.

Source:

NCDH (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	9932	9932	9935	10208	10208	10208
Sample Date:	6/82	4/86	12/82	3/86	8/86	12/87
Well Depth (ft):	105	105	135	649	649	649
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	1	1	<1	<1	<1	<1
Tetrachloroethylene	4	4	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	--	<11	<1	--	<9	<10
1,1,1-Trichloroethane	69	7	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1
Chloroform	2	1	<1	<1	<1	<1
Bromoform	<1	<2	<1	<1	<2	<1
Vinyl chloride	--	--	--	<1	--	--
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Methylene chloride	11*	<11	<5	<1	<9	<10
Dibromochloromethane	<1	<1	<1	<1	<1	<2
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	67	<18	<4	<1	<9	<5
1,2-Dichloroethane	<3	--	<4	<1	--	--
1,1-Dichloroethylene	6	<11	<1	<1	<9	<10
Benzene	<4	<3	<4	<1	<3	<3
Chlorobenzene	<5	<4	<5	<1	<9	<3
Dichlorobenzene	<10	<15	<10	--	<20	<20
Ethylbenzene	<3	<5	<3	<1	<6	<5
Toluene	<4	<4	<4	<1	<7	<3
Xylene	<4	<5	<4	--	<9	<6
Trichlorofluoromethane	--	--	--	--	--	--
1,2-Dichloroethylene	--	--	--	--	--	--
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	160*	13	0	0	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10208	10208	10208	10208	10208	10388
Sample Date:	2/88	9/88	10/88	3/89	6/89	9/86
Well Depth (ft):	649	649	649	649	649	76
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<1
1,1,2-Trichlorotrifluoroethane	--	--	--	--	--	<10
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<1
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<2
Chloroform	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Bromoform	<0.5	<0.5	<0.5	<0.5	<0.5	<3
Vinyl chloride	<0.5	<0.5	<0.5	<0.5	<0.5	--
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Methylene chloride	<0.5	<0.5	<0.5	<0.5	<0.5	<10
Dibromochloromethane	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Bromodichloromethane	<0.5	<0.5	<0.5	<0.5	<0.5	<1
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<9
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	--
1,1-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<10
Benzene	<0.5	<0.5	<0.5	<0.5	<0.5	<3
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<5
Dichlorobenzene	--	--	--	--	--	<25
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<4
Toluene	<0.5	<0.5	<0.5	<0.5	<0.5	<5
Xylene	--	--	--	--	--	<6
Trichlorofluoromethane	--	--	--	--	--	<1
1,2-Dichloroethylene	--	--	--	--	--	<4
1,3-Dichloropropene	--	--	--	--	--	<1
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	0	0	0	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10589	10589	10589	10589	10590	10591
Sample Date:	10/86	5/87	7/88	11/88	10/86	9/86
Well Depth (ft):	76	76	76	76	76	78
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<1	<1	<1	<2	<1	<1
Tetrachloroethylene	<1	<1	1	1	<1	<1
1,1,2-Trichlorotrifluoroethane	<8	<7	<9	<2	<8	<10
1,1,1-Trichloroethane	4	3	<1	<1	<1	6
1,1,2-Trichloroethane	<2	<2	<2	<2	<2	<2
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<2	<2	<2	<2	<2	<3
Vinyl chloride	--	<1	<1	<1	--	--
Carbon tetrachloride	<1	<1	<1	<2	<1	<1
Methylene chloride	<8	<7	--	--	<8	<10
Dibromochloromethane	<1	<2	<2	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<5	<5	<5	<2	<5	<9
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	<8	<7	--	<25	<8	<10
Benzene	<3	<3	<3	<3	<3	<3
Chlorobenzene	<6	<4	<4	<3	<6	<5
Dichlorobenzene	<20	<20	<17	<12	<20	<25
Ethylbenzene	<10	<4	<4	<3	<10	<6
Toluene	<4	<4	<4	6	<4	<5
Xylene	<10	<6	<5	<3	<10	<6
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene	<4	<7	<8	<15	<4	<4
1,3-Dichloropropene	<1	<2	--	--	<1	<1
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	4	3	1	7	0	6

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10591	10591	10592	10593	10593	10593
Sample Date:	6/88	11/88	9/86	10/86	4/87	7/88
Well Depth (ft):	78	78	73	77	77	77
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<1	<2	<1	--	36	40
Tetrachloroethylene	<1	<1	<1	--	2	78
1,1,2-Trichlorotrifluoroethane	<10	<2	<10	--	<7	<9
1,1,1-Trichloroethane	3	1	<1	--	<1	<1
1,1,2-Trichloroethane	<1	<2	<2	--	<2	<2
Chloroform	<1	<1	<1	--	<1	<1
Bromoform	<2	<2	<3	--	<2	<2
Vinyl chloride	<1	<1	--	67.4	--	72
Carbon tetrachloride	<1	<2	<1	--	<1	<1
Methylene chloride	--	--	<10	--	<7	--
Dibromochloromethane	<1	<1	<1	--	<2	<2
Bromodichloromethane	<1	<1	<1	--	<1	<1
1,1-Dichloroethane	<4	<2	<9	--	<5	<5
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	--	<25	<10	--	<7	--
Benzene	<3	<3	<3	--	5	7
Chlorobenzene	<3	<3	<5	--	<4	<4
Dichlorobenzene	<20	<12	<25	--	<20	<17
Ethylbenzene	<4	<3	<4	--	<4	<4
Toluene	<3	8	<5	--	<4	<4
Xylene	<5	<3	<6	--	<6	<5
Trichlorofluoromethane	<1	<1	<1	--	<1	<1
1,2-Dichloroethylene	<8	<15	<4	--	340	330
1,3-Dichloropropene	--	--	<1	--	<2	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	3	9	0	67.4	383	527

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10593	10593	10594	10594	10594	10594
Sample Date:	11/88	12/88	10/86	4/87	7/88	11/88
Well Depth (ft):	77	77	76	76	76	76
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	51	65	83	170	230	440
Tetrachloroethylene	9	30	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	<2	--	<8	<7	<10	<2
1,1,1-Trichloroethane	<1	--	2	3	2	4
1,1,2-Trichloroethane	<2	--	<2	<2	<1	<2
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<2	<1	<2	<2	<2	<2
Vinyl chloride	--	776	<1	<1	1	<1
Carbon tetrachloride	<2	<1	<1	<1	<1	<2
Methylene chloride	--	--	<8	<7	<10	--
Dibromochloromethane	<1	<1	<1	<2	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<2	<1	<5	<5	<4	<2
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	<25	3	<8	<7	<10	<25
Benzene	8	17	<3	<3	<3	<3
Chlorobenzene	<3	1	<6	<4	<3	<3
Dichlorobenzene	<12	3	<20	<20	<20	<12
Ethylbenzene	<3	<1	<10	<4	<4	<3
Toluene	<5	8	<4	<4	4	<5
Xylene	<3	2	<10	<6	<5	<3
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene	26	264	<4	<7	<8	<15
1,3-Dichloropropene	--	--	<1	<2	--	<1
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	94	1169	85	173	237	444

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10595	10595	10595	10596	10596	10596
Sample Date:	9/86	4/87	7/88	10/86	5/87	8/88
Well Depth (ft):	67	67	67	71	71	71
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	1200	540	520	<1	<1	<1
Tetrachloroethylene	2400	920	1200	4	3	2
1,1,2-Trichlorotrifluoroethane	--	--	--	--	--	<10
1,1,1-Trichloroethane	650	300	300	97	120	52
1,1,2-Trichloroethane	<2	<2	<2	<2	<2	<1
Chloroform	7	1	4	<1	<1	<1
Bromoform	<2	<2	<2	<2	<2	<2
Vinyl chloride	3.8	--	48	22.4	6	--
Carbon tetrachloride *	<1	<1	<1	<1	<1	<1
Methylene chloride	--	--	--	--	--	--
Dibromochloromethane	<1	<2	<2	<1	<2	<2
Bromodichloromethane	<1	<1	<1	<1	<1	<2
1,1-Dichloroethane	89	37	56	53	72	120
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	160	130	--	12	14	--
Benzene	<3	<3	<3	<3	<3	<3
Chlorobenzene	<6	<4	<4	<6	<4	<5
Dichlorobenzene	<20	<20	<17	<20	<20	<12
Ethylbenzene	<10	<4	<4	<10	<4	<4
Toluene	4	<4	<4	<4	<4	<5
Xylene	<10	<6	<5	<10	<6	<3
Trichlorofluoromethane	<1	<1	2	<1	<1	<1
1,2-Dichloroethylene	260	90	140	<4	<7	<11
1,3-Dichloropropene	<1	<2	--	<1	<2	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	4773.8	2018	2270	188.4	215	174

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10596	10597	10597	10597	10597	10598
Sample Date:	11/88	10/86	5/87	6/88	11/88	10/86
Well Depth (ft):	71	66	66	66	66	77
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<2	4	5	3	<2	5
Tetrachloroethylene	4	120	320	52	9	1100
1,1,2-Trichlorotrifluoroethane	<2	<8	<7	<10	<2	--
1,1,1-Trichloroethane	63	<5	<1	<1	<1	<5
1,1,2-Trichloroethane	<2	<2	<2	<1	<2	<2
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<2	<2	<2	<2	<2	<2
Vinyl chloride	23	--	<1	<1	<1	<1
Carbon tetrachloride	<2	<1	<1	<1	<2	<1
Methylene chloride	--	<8	<7	--	--	--
Dibromochloromethane	<1	<1	<2	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	120	<5	<5	<4	<2	<5
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	<25	<8	<7	--	<25	35
Benzene	<3	<18	<3	<3	<3	<18
Chlorobenzene	<3	<6	<4	<3	<3	<6
Dichlorobenzene	<12	<20	<20	<20	<12	<20
Ethylbenzene	<3	<10	<4	<4	<3	<10
Toluene	<5	<4	<4	<3	<5	<4
Xylene	<3	<10	<6	<5	<3	<10
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene	<15	<4	15	<8	<15	<4
1,3-Dichloropropene	--	<1	<2	--	--	<1
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	210	124	340	55	9	1140

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDH (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10598	10598	10598	10599	10599
Sample Date:	5/87	6/88	10/88	10/86	5/87
Well Depth (ft):	77	77	77	67	67
Volatile Organic Compounds (concentrations in ug/L)					
Trichloroethylene	5	--	20	840	880
Tetrachloroethylene	790	--	230	18	17
1,1,2-Trichlorotrifluoroethane	--	--	54	<8	<7
1,1,1-Trichloroethane	<1	<1	<1	<5	5
1,1,2-Trichloroethane	<2	<1	<1	<2	<2
Chloroform	<1	<1	<1	<1	<1
Bromoform	--	<2	<1	<2	<2
Vinyl chloride	6	<1	<1	--	<1
Carbon tetrachloride	<1	<1	<1	<1	<1
Methylene chloride	--	--	--	<8	<7
Dibromochloromethane	<2	<1	<1	<1	<2
Bromodichloromethane	<1	<1	<1	<1	<1
1,1-Dichloroethane	<5	<4	<2	<5	<5
1,2-Dichloroethane	--	--	--	--	--
1,1-Dichloroethylene	30	--	<25	<8	<7
Benzene	<3	<3	<3	<18	<3
Chlorobenzene	<4	<3	<3	<6	<4
Dichlorobenzene	<20	<20	<6	<20	<20
Ethylbenzene	<4	<4	<3	<10	<4
Toluene	<4	<3	<6	<4	<4
Xylene	<6	<5	<4	<10	<6
Trichlorofluoromethane	<1	<1	<1	<1	<1
1,2-Dichloroethylene	<7	<8	<6	<4	10
1,3-Dichloropropene	<1	--	--	<2	<1
1,2-Dibromoethane	--	--	--	--	--
Total Volatile Organic Compounds	831	0	304	858	912

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10599	10599	10600	10600	10600	10600
Sample Date:	6/88	10/88	10/86	4/87	6/88	10/88
Well Depth (ft):	67	67	61	61	61	61
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	810	470	620	460	350	350
Tetrachloroethylene	15	21	13	9	12	13
1,1,2-Trichlorotrifluoroethane	<10	<2	<8	<7	<10	<2
1,1,1-Trichloroethane	3	4	2	1	1	2
1,1,2-Trichloroethane	<1	<2	<2	<2	<1	<2
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<2	<2	<2	<2	<2	<2
Vinyl chloride	3	<1	<1	--	1	<1
Carbon tetrachloride	<1	<2	<1	<1	<1	<2
Methylene chloride	--	--	<8	<7	--	--
Dibromochloromethane	<1	<1	<1	<2	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<4	<2	<5	<5	<4	<2
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	--	<25	<8	<7	--	<25
Benzene	<3	<3	<3	<3	<3	<3
Chlorobenzene	<3	<3	<6	<4	<3	<3
Dichlorobenzene	<20	<12	<20	<20	<20	<12
Ethylbenzene	<4	<3	<10	<4	<4	<3
Toluene	<3	<5	<4	<4	<3	<5
Xylene	<5	<3	<10	<6	<5	<3
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene	<8	<15	7	<7	8	<15
1,3-Dichloropropene	--	--	<1	<2	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	831	495	642	470	372	365

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10601	10601	10601	10601	10602	10602
Sample Date:	10/86	5/87	6/88	11/88	10/86	6/88
Well Depth (ft):	67	67	67	67	56	56
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	56	87	78	76	56	2
Tetrachloroethylene	8	3	6	11	2	<1
1,1,2-Trichlorotrifluoroethane	<8	<7	<10	<2	<8	<10
1,1,1-Trichloroethane	1	2	1	1	<5	<1
1,1,2-Trichloroethane	<2	<2	<1	<2	<2	<1
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<2	<2	<2	<2	<2	<2
Vinyl chloride	<1	<1	2	<1	--	<1
Carbon tetrachloride	<1	<1	<1	<2	<1	<1
Methylene chloride	<8	<7	--	--	<8	--
Dibromochloromethane	<1	<2	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<5	<5	<4	<2	<5	<4
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	<8	<7	--	<25	<8	--
Benzene	<3	<3	<3	<3	<18	<3
Chlorobenzene	<6	<4	<3	<3	<6	<3
Dichlorobenzene	<20	<20	<20	<12	<20	<20
Ethylbenzene	<10	<4	<4	<3	<10	<4
Toluene	<4	<4	<3	<5	<4	<3
Xylene	<10	<6	<5	<3	<10	<5
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene	<4	<7	<8	<15	<4	<8
1,3-Dichloropropene	<1	<2	--	--	<1	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	65	92	87	88	58	2

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10602	10602	10603	10603	10603	10603
Sample Date:	11/88	4/87	10/86	4/87	6/88	11/88
Well Depth (ft):	56	56	61	61	61	61
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	12	19	37	32	48	48
Tetrachloroethylene	<1	<1	<1	1	3	3
1,1,2-Trichlorotrifluoroethane	<2	<7	<8	<7	<10	<2
1,1,1-Trichloroethane	<1	<1	8	5	7	7
1,1,2-Trichloroethane	<2	<2	<2	<2	<1	<2
Chloroform	<1	<1	<1	<1	1	2
Bromoform	<2	<2	<2	<2	<2	<2
Vinyl chloride	<1	--	--	--	2	1
Carbon tetrachloride	<2	<1	<1	<1	<1	<2
Methylene chloride	--	<7	--	--	--	--
Dibromochloromethane	<1	<2	<1	<2	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<2	<5	5	<5	5	9
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	<25	<7	--	--	--	<25
Benzene	<3	<3	<3	<3	<3	<3
Chlorobenzene	<3	<4	<6	<4	<3	<3
Dichlorobenzene	<12	<20	<20	<20	<20	<12
Ethylbenzene	<3	<4	<10	<4	<4	<3
Toluene	<5	<4	<4	<4	<3	<5
Xylene	<3	<6	<10	<6	<5	<3
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene	<15	<7	<4	<7	<8	<15
1,3-Dichloropropene	--	<2	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	12	19	50	38	66	70

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10623	10623	10623	10623	10623	10624
Sample Date:	9/86	5/87	7/88	8/88	12/88	10/86
Well Depth (ft):	72	72	72	72	72	194
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	110	390	580	280	40	24
Tetrachloroethylene	110	400	550	290	35	<1
1,1,2-Trichlorotrifluoroethane	--	--	14	<10	--	<8
1,1,1-Trichloroethane	89	180	260	73	22	<1
1,1,2-Trichloroethane	<2	<2	<1	<1	--	<2
Chloroform	<1	1	2	<1	--	<1
Bromoform	<2	<2	<2	<2	<1	<2
Vinyl chloride	4.4	3	--	5	21	27.8
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Methylene chloride	--	--	--	--	--	<8
Dibromochloromethane	<1	<1	<1	<2	<10	<1
Bromodichloromethane	<1	<1	<1	<2	<10	<1
1,1-Dichloroethane	22	21	26	17	5	<1
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	9	38	--	--	1	<8
Benzene	<3	<3	<3	<3	<1	<3
Chlorobenzene	<6	<4	<3	<5	<1	<6
Dichlorobenzene	<20	<20	<20	<12	<1	<20
Ethylbenzene	<10	<4	<4	<4	<1	<10
Toluene	<4	<4	<3	<5	<1	<4
Xylene	<10	<6	<5	<3	<1	<10
Trichlorofluoromethane	2*	<1	<1	<1	<1	<1
1,2-Dichloroethylene	21	44	130	51	10	<4
1,3-Dichloropropene	<1	<1	--	--	--	<1
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	367.4*	1077	1562	716	134	51.8

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10624	10625	10625	10625	10625	10626
Sample Date:	5/87	9/86	4/87	6/88	10/88	10/86
Well Depth (ft):	194	67	67	67	67	67
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	120	32	2	120	66	<1
Tetrachloroethylene	5	6	4	21	25	<1
1,1,2-Trichlorotrifluoroethane	<7	<8	<8	<10	<3	<8
1,1,1-Trichloroethane	<1	11	1	31	17	<1
1,1,2-Trichloroethane	<2	<2	<2	<1	<1	<2
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<2	<2	<1	<2	<1	<2
Vinyl chloride	--	<1	--	1	<1	--
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Methylene chloride	<7	<8	<8	--	--	<8
Dibromochloromethane	<2	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<5	<5	<4	<4	2	<5
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	<7	<8	<8	--	<25	<8
Benzene	<3	<3	<3	<3	<3	<3
Chlorobenzene	<4	<6	<3	<3	<3	<6
Dichlorobenzene	<20	<20	<30	<20	<6	<20
Ethylbenzene	<4	<10	<7	<4	<3	<10
Toluene	<4	<4	<3	<3	<6	<4
Xylene	<6	<10	<12	<5	<4	<10
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene	<7	<4	<5	<8	<6	<4
1,3-Dichloropropene	<2	<1	<1	--	--	<1
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	125	49	7	173	110	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10626	10626	10626	10627	10628	10628
Sample Date:	5/87	6/88	10/88	6/88	10/86	5/87
Well Depth (ft):	67	67	67	310	67	67
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<1	<1	<1	600	<1	<1
Tetrachloroethylene	<1	<1	<1	18	<1	<1
1,1,2-Trichlorotrifluoroethane	<7	<10	<3	<11	<8	<7
1,1,1-Trichloroethane	<1	<1	<1	1	<1	<1
1,1,2-Trichloroethane	<2	<1	<1	<1	<2	<2
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<2	<2	<1	<1	<2	<2
Vinyl chloride	<1	<1	<1	6	--	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Methylene chloride	<7	--	--	--	<8	<7
Dibromochloromethane	<2	<1	<1	<1	<1	<2
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<5	<4	<2	<5	<5	<5
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	<7	--	<25	--	<8	<7
Benzene	<3	<3	<3	<3	<3	<3
Chlorobenzene	<4	<3	<3	<3	<6	<4
Dichlorobenzene	<20	<20	<6	<15	<20	<20
Ethylbenzene	<4	<4	<3	<4	<10	<4
Toluene	<4	<3	<6	<3	<4	<4
Xylene	<6	<5	<4	<4	<10	<6
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene	<7	<8	<6	9	<4	<7
1,3-Dichloropropene	<2	--	--	--	<1	<2
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	0	0	634	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDH (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10628	10629	10629	10629	10629	10629
Sample Date:	7/88	10/86	6/87	7/88	8/88	12/88
Well Depth (ft):	67	109	109	109	109	109
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<1	260	530	440	450	210
Tetrachloroethylene	<1	370	1000	990	870	390
1,1,2-Trichlorotrifluoroethane	<10	--	--	150	<10	--
1,1,1-Trichloroethane	<1	320	500	320	280	150
1,1,2-Trichloroethane	<1	<2	<1	<1	<1	--
Chloroform	<1	2	2	2	<1	2
Bromoform	<2	<20	<20	<40	<2	<1
Vinyl chloride	<1	22.7	--	--	8	19
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Methylene chloride	--	--	--	--	--	--
Dibromochloromethane	<1	<1	<2	<1	<2	<1
Bromodichloromethane	<1	<1	<1	<1	<2	<1
1,1-Dichloroethane	<4	81	84	49	76	42
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	--	96	220	--	--	47
Benzene	<3	<3	<3	<3	<3	<1
Chlorobenzene	<3	<3	<3	<3	<5	<1
Dichlorobenzene	<20	<25	<20	<20	<12	<1
Ethylbenzene	<4	<5	<7	<4	<4	<1
Toluene	<3	<3	<3	3	<5	2
Xylene	<5	<6	<10	<5	<3	<1
Trichlorofluoromethane	<1	<1	<1	2	<1	<1
1,2-Dichloroethylene	<8	137	340	280	190	140
1,3-Dichloropropene	--	<1	<2	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	1288.7	2676	2238	1874	1002

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10630	10630	10631	10631	10631	10631
Sample Date:	6/88	12/88	11/86	5/87	6/88	11/88
Well Depth (ft):	300	300	67	67	67	67
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<1	<1	380	310	46	43
Tetrachloroethylene	<2	2	9	3	3	3
1,1,2-Trichlorotrifluoroethane	<11	--	<8	<7	<10	<2
1,1,1-Trichloroethane	2	2	2	1	2	7
1,1,2-Trichloroethane	<1	--	<2	<2	<1	<2
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<2	<2	<2	<2
Vinyl chloride	1	3	<1	<1	2	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<2
Methylene chloride	--	--	--	<7	--	--
Dibromochloromethane	<1	<1	<1	<2	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<5	5	<5	<5	<4	<2
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	--	1	--	<7	--	<25
Benzene	<3	<1	<3	<3	<3	<3
Chlorobenzene	<3	<1	<3	<4	<3	<3
Dichlorobenzene	<15	17	<25	<20	<20	<12
Ethylbenzene	<4	<1	<5	<4	<4	<3
Toluene	<3	2	<3	<4	5	<5
Xylene	<4	<1	<6	<6	<5	<3
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene	<8	<1	<5	<7	<8	<15
1,3-Dichloropropene	--	--	--	<2	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	3	32	391	314	58	53

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	8321	8321	8321	8321	8321	8454
Sample Date:	3/88	6/88	9/88	12/88	3/89	9/86
Well Depth (ft):	674	674	674	674	674	560
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<1
1,1,2-Trichlorotrifluoroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<10
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<1
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<2
Chloroform	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Bromoform	<0.5	<0.5	<0.5	<0.5	<0.5	<3
Vinyl chloride	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Methylene chloride	<0.5	<0.5	<0.5	<0.5	<0.5	--
Dibromochloromethane	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Bromodichloromethane	<0.5	<0.5	<0.5	<0.5	<0.5	<1
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<9
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	--
1,1-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	--
Benzene	<0.5	<0.5	<0.5	<0.5	<0.5	<3
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<5
Dichlorobenzene	--	--	--	--	--	<25
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<4
Toluene	<0.5	<0.5	<0.5	<0.5	<0.5	<5
Xylene	--	--	--	--	--	<6
Trichlorofluoromethane	--	--	--	--	--	<1
1,2-Dichloroethylene	--	--	--	--	--	<4
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	0	0	0	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	8454	8480	8480	8480	8480	8480
Sample Date:	7/88	7/86	1/87	9/87	2/88	4/88
Well Depth (ft):	560	655	655	655	655	655
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<1	<1	<1	<1	<0.5	<0.5
Tetrachloroethylene	<1	<1	<1	<1	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	<10	<9	<9	<6	--	--
1,1,1-Trichloroethane	<1	<1	<2	<1	<0.5	<0.5
1,1,2-Trichloroethane	<1	<1	<4	<1	<0.5	<0.5
Chloroform	<1	<1	<1	<1	<0.5	<0.5
Bromoform	<2	<2	<3	<2	<0.5	<0.5
Vinyl chloride	<1	--	--	--	<0.5	<0.5
Carbon tetrachloride	<1	<1	<1	<1	<0.5	<0.5
Methylene chloride	--	<9	<9	<6	<0.5	<0.5
Dibromochloromethane	<1	<1	<3	<1	<0.5	<0.5
Bromodichloromethane	<1	<1	<2	<2	<0.5	<0.5
1,1-Dichloroethane	<4	<11	<6	<5	<0.5	<0.5
1,2-Dichloroethane	--	--	--	--	<0.5	<0.5
1,1-Dichloroethylene	--	<9	<9	<6	<0.5	<0.5
Benzene	<3	<4	<3	<3	<0.5	<0.5
Chlorobenzene	<3	<7	<4	<4	<0.5	<0.5
Dichlorobenzene	<20	<16	<32	<20	--	--
Ethylbenzene	<4	<5	<3	<4	<0.5	<0.5
Toluene	<3	<5	<3	<3	<0.5	<0.5
Xylene	<5	<9	<4	<6	--	--
Trichlorofluoromethane	<1	--	--	--	--	--
1,2-Dichloroethylene	<8	--	--	--	--	--
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	0	0	0	0	0	0

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10632	10632	10632	10632	10633	10633
Sample Date:	11/86	5/87	6/88	11/88	11/86	5/87
Well Depth (ft):	67	67	67	67	67	67
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	53	87	130	110	81	54
Tetrachloroethylene	6	7	6	13	7	8
1,1,2-Trichlorotrifluoroethane	<8	<7	<10	<2	<8	<7
1,1,1-Trichloroethane	2	2	<1	1	1	3
1,1,2-Trichloroethane	<2	<2	<1	<2	<2	<2
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<2	<2	<2	<2	<2	<2
Vinyl chloride	<1	<1	2	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<2	<1	<1
Methylene chloride	<8	<7	--	--	<8	<7
Dibromochloromethane	<1	<2	<1	<1	<1	<2
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<5	<5	<4	<2	<5	<5
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	<8	<7	--	<25	<8	<7
Benzene	<3	<3	<3	<3	<3	<3
Chlorobenzene	<3	<4	<3	<3	<3	<4
Dichlorobenzene	<25	<20	<20	<12	<25	<20
Ethylbenzene	<5	<4	<4	<3	<5	<4
Toluene	<3	<4	<3	<5	<3	<4
Xylene	<6	<6	<5	<3	<6	<6
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene	<5	<7	<8	<13	<5	<7
1,3-Dichloropropene	<1	<2	--	--	<1	<2
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	61	96	138	124	89	65

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10633	10633	10634	10634	10634	10634
Sample Date:	5/88	11/88	11/86	4/87	6/88	11/88
Well Depth (ft):	67	67	67	67	67	67
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	57	56	580	280	78	110
Tetrachloroethylene	7	8	9	7	8	11
1,1,2-Trichlorotrifluoroethane	<9	<3	<8	<7	<10	<2
1,1,1-Trichloroethane	1	1	2	1	1	1
1,1,2-Trichloroethane	<1	<1	<2	<2	<1	<2
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<2	<2	<2	<2
Vinyl chloride	1	<1	--	--	3	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<2
Methylene chloride	--	--	<8	<7	--	--
Dibromochloromethane	<1	<1	<1	<2	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<4	<2	<5	<5	<4	<2
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	--	<25	<8	<7	--	<25
Benzene	<3	<3	<3	<3	<3	<3
Chlorobenzene	<4	<3	<3	<4	<3	<3
Dichlorobenzene	<18	<6	<25	<20	<20	<12
Ethylbenzene	<8	<3	<5	<4	<4	<3
Toluene	<3	<6	<3	<4	<3	<5
Xylene	<9	<4	<6	<6	<5	<3
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene	<8	<6	<5	<7	<8	<15
1,3-Dichloropropene	--	--	<1	<2	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	66	65	591	288	90	122

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10635	10635	10635	10636	10636	10636
Sample Date:	11/86	6/88	10/88	11/86	4/87	6/88
Well Depth (ft):	43	45	45	56	56	56
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	95	31	8	<1	<1	<1
Tetrachloroethylene	4	1	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	<8	<10	<3	<8	<8	<10
1,1,1-Trichloroethane	3	<1	<1	<1	<1	5
1,1,2-Trichloroethane	<2	<1	<1	<2	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<2	<2	<1	<2	<1	<2
Vinyl chloride	--	1	<1	--	<1	3
Carbon tetrachloride	<1	<1	<2	<1	<1	<1
Methylene chloride	<8	--	--	<8	<8	--
Dibromochloromethane	<1	<1	<1	<1	<2	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<5	<4	<2	<5	<4	8
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	<8	--	<25	<8	<8	--
Benzene	<3	<3	<3	<3	<3	<3
Chlorobenzene	<3	<3	<3	<3	<3	<3
Dichlorobenzene	<25	<20	<6	<25	<30	<20
Ethylbenzene	<5	<4	<3	<5	<7	<4
Toluene	<3	<3	<6	<3	<3	<3
Xylene	<6	<5	<4	<6	<12	<5
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene	<5	<8	<6	<5	<5	<8
1,3-Dichloropropene	<1	--	--	<1	<2	<1
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	102	33	8	0	0	16

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10636	10812	10812	10812	10813	10813
Sample Date:	10/88	4/87	6/88	11/88	4/87	6/88
Well Depth (ft):	56	93	93	93	67	67
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<1	<1	<1	<2	6	6
Tetrachloroethylene	<1	3	8	7	<1	1
1,1,2-Trichlorotrifluoroethane	<3	<7	<10	<2	<8	<10
1,1,1-Trichloroethane	10	<1	<1	<1	4	<1
1,1,2-Trichloroethane	<1	<2	<1	<2	<1	<1
Chloroform	<1	<1	<1	<1	<1	3
Bromoform	<1	<2	<2	<2	<1	<2
Vinyl chloride	4	<1	<1	<1	--	<1
Carbon tetrachloride	<1	<1	<1	<2	<1	<1
Methylene chloride	--	<7	--	--	--	--
Dibromochloromethane	<1	<2	<1	<1	<2	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	20	<5	<4	<2	<5	<4
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	<25	<7	--	<25	--	--
Benzene	<3	<3	<3	<3	<3	<3
Chlorobenzene	<3	<4	<3	<3	<3	<3
Dichlorobenzene	<6	<20	<20	<12	<30	<20
Ethylbenzene	<3	<4	<4	<3	<7	<4
Toluene	<6	<4	<3	<5	<3	<3
Xylene	<4	<6	<5	<3	<12	<5
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene	<6	<7	<8	<15	<5	<8
1,3-Dichloropropene	<1	<2	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	34	3	8	7	10	10

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDH (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10813	10814	10814	10814	10815	10815
Sample Date:	10/88	5/87	6/88	11/88	4/87	6/88
Well Depth (ft):	67	72	72	72	61	61
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	9	73	72	68	<1	<1
Tetrachloroethylene	1	3	4	4	<1	<1
1,1,2-Trichlorotrifluoroethane	<3	<7	<10	<2	<7	<10
1,1,1-Trichloroethane	1	5	3	2	1	2
1,1,2-Trichloroethane	<1	<2	<1	<2	<2	<1
Chloroform	3	<1	<1	<1	<1	<1
Bromoform	<1	<2	<2	<2	<2	<2
Vinyl chloride	<1	<1	2	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<2	<1	<1
Methylene chloride	--	<7	--	--	--	--
Dibromochloromethane	<1	<2	<1	<1	<2	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<2	5	<4	2	<5	<4
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	<25	<7	--	<25	--	--
Benzene	<3	<3	<3	<3	<3	<3
Chlorobenzene	<3	<4	<3	<3	<4	<3
Dichlorobenzene	<6	<20	<20	<12	<20	<20
Ethylbenzene	<3	<4	<4	<3	<4	<4
Toluene	<6	<4	<3	<5	<4	<3
Xylene	<4	<6	<5	<3	<6	<5
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene	<6	<7	<8	<15	<7	<8
1,3-Dichloropropene	--	<2	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	14	86	81	76	1	2

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10815	10816	10816	10817	10817	10817
Sample Date:	11/88	6/88	11/88	5/87	6/88	11/88
Well Depth (ft):	61	130	130	51	51	51
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	<2	49	66	3	2	2
Tetrachloroethylene	<1	2	2	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	<2	<10	<3	<7	<10	<3
1,1,1-Trichloroethane	2	12	11	11	11	9
1,1,2-Trichloroethane	<2	<1	<1	<2	<1	<1
Chloroform	<1	1	2	<1	<1	<1
Bromoform	<2	<2	<1	<2	<2	<1
Vinyl chloride	<1	5	4	<1	<1	<1
Carbon tetrachloride	<2	<1	<1	<1	<1	<1
Methylene chloride	--	--	--	<7	--	--
Dibromochloromethane	<1	<1	<1	<2	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	2	11	15	<5	<4	<2
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	<25	--	<25	<7	--	<25
Benzene	<3	<3	<3	<3	<3	<3
Chlorobenzene	<3	<3	<3	<4	<3	<3
Dichlorobenzene	<12	<20	<6	<20	<20	<6
Ethylbenzene	<3	<4	<3	<4	<4	<3
Toluene	<5	<3	<6	<4	<3	<6
Xylene	<3	<5	<4	<6	<5	<4
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene	<15	<8	<6	<7	<8	<6
1,3-Dichloropropene	--	--	--	<2	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	4	80	100	14	13	11

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10818	10818	10818	10820	10820	10820
Sample Date:	5/87	7/88	11/88	4/87	6/88	11/88
Well Depth (ft):	56	56	56	72	72	72
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	10	29	30	160	280	290
Tetrachloroethylene	<1	1	1	7	10	12
1,1,2-Trichlorotrifluoroethane	<7	<9	<2	<7	<10	5
1,1,1-Trichloroethane	<1	<1	<1	7	6	5
1,1,2-Trichloroethane	<2	<2	<2	<2	<1	<2
Chloroform	<1	<1	<1	<1	<1	1
Bromoform	<2	<2	<2	<2	<2	<2
Vinyl chloride	<1	1	<1	--	8	<1
Carbon tetrachloride	<1	<1	<2	<1	<1	<2
Methylene chloride	<7	--	--	<7	--	--
Dibromochloromethane	<2	<2	<1	<2	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<5	<5	<2	6	<4	4
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	<7	--	<25	<7	--	<25
Benzene	<3	<3	<3	<3	<3	<3
Chlorobenzene	<4	<4	<3	<4	<3	<3
Dichlorobenzene	<20	<17	<12	<20	<20	<12
Ethylbenzene	<4	<4	<3	<4	<4	<3
Toluene	<4	<4	18	<4	3	<5
Xylene	<6	<5	<3	<6	<5	<3
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene	<7	<8	<15	<7	<8	<15
1,3-Dichloropropene	<2	--	--	<2	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	10	31	49	180	307	317

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation., Bethpage, New York.

Well Number:	10821	10821	10821	10822	10997	10997
Sample Date:	4/87	6/88	11/88	4/87	6/88	12/88
Well Depth (ft):	56	56	56	122	694	694
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	31	7	3	4	280	150
Tetrachloroethylene	<1	<1	<1	3	<1	1
1,1,2-Trichlorotrifluoroethane	<7	<10	<2	<7	<11	--
1,1,1-Trichloroethane	6	<1	<1	6	1	1
1,1,2-Trichloroethane	<2	<1	<2	<2	<1	--
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<2	<2	<2	<2	<1	<1
Vinyl chloride	--	1	<1	2	8	1
Carbon tetrachloride	<1	<1	<2	<1	1	1
Methylene chloride	<7	--	--	--	--	--
Dibromochloromethane	<2	<1	<1	<2	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<5	<4	<2	13	<5	--
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	<7	--	<25	--	--	3
Benzene	<3	<3	<3	<3	<3	<1
Chlorobenzene	<4	<3	<3	<4	<3	<1
Dichlorobenzene	<20	<20	<12	<20	<15	<1
Ethylbenzene	<4	<4	<3	<4	<4	<1
Toluene	<4	4	<5	<4	<3	<1
Xylene	<6	<5	<3	<6	<4	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene	10	<8	<15	<7	<8	3
1,3-Dichloropropene	<2	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	47	12	3	28	290	160

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10998	10988	10999	10999	11000	11000
Sample Date:	6/88	11/88	6/88	12/88	6/88	11/88
Well Depth (ft):	324	324	335	335	131	131
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	200	170	<1	<1	9	6
Tetrachloroethylene	4	4	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	95	63	<11	--	<10	<2
1,1,1-Trichloroethane	16	15	<1	<1	<1	1
1,1,2-Trichloroethane	<1	<2	<1	--	<1	<2
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<2	<2	<1	<1	<2	<2
Vinyl chloride	48	3	<1	<1	1	<1
Carbon tetrachloride	<1	<2	<1	<1	<1	<2
Methylene chloride	--	--	--	--	--	--
Dibromochloromethane	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	6	5	<5	<1	<4	<2
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	--	<25	--	<1	--	<25
Benzene	<3	<3	<3	<1	<3	<3
Chlorobenzene	<3	<3	<3	<1	<3	<3
Dichlorobenzene	<20	<12	<15	<1	<20	<12
Ethylbenzene	<4	<3	<4	1	<4	<3
Toluene	<3	<5	<3	6	<3	<5
Xylene	<5	<3	<4	6	<5	<3
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene	11	<20	<8	<1	<8	<15
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	380	260	0	13	10	7

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1986, 1989)

A.3 Table 3 - Production Well Water-Quality Data, Grumman Aerospace Corporation, Bethpage, New York

Table 3. Production Well Water-Quality Data, Grumman Aerospace Corporation, Bethpage New York.

Well Number:	1	2	3	4	5	6	8	9
Sample Date:	3/17/89	3/22/89	3/22/89	3/22/89	3/17/89	3/22/89	3/17/89	3/20/89
Parameters (concentration in ug/ml unless indicated)								
Inorganic Compounds								
Alkalinity	1.2	1.2	1.7	0.82	4.12	3.3	5.4	1.7
Aluminum	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ammonia	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Calcium	3.0	4.1	4.1	4.4	7.7	7.0	10.8	6.6
Chloride	9.8	13.5	11.9	14.4	23.6	16.8	22.8	14.0
Chromium (hexavalent)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium (total)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Conductivity (umhos/cm)	68.5	104.5	81.8	94.4	146.6	149.3	179.9	118.2
Copper	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoride	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Hardness	11.8	15.1	15.9	18.4	32.2	27.3	43.7	26.5
Iron	<0.1	<0.1	<0.1	<0.1	0.24	0.41	<0.1	<0.1
Magnesium	1.2	1.6	1.5	1.6	2.8	2.5	4.1	2.3
Manganese	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate	4.5	4.7	4.0	4.8	5.3	5.8	4.9	6.0
Nitrite	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phosphate	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Silicon	3.5	4.0	3.5	3.7	4.0	4.5	4.8	3.8
Sodium	7.5	13.4	9.1	11.0	14.9	14.1	16.5	11.9
Sulfate	<5.0	5.8	<5.0	<5.0	8.9	8.6	22.0	5.1
Surfactants (MBAS)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Dissolved Solids	53.0	75.0	58.0	66.0	128.0	91.0	157.0	87.0
Zinc	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

ND Not detected.
ug/ml Micrograms per milliliter.
ug/L Micrograms per liter.

Table 3. Production Well Water-Quality Data, Grumman Aerospace Corporation, Bethpage New York.

Well Number:	10	11	13	14	15	16
Sample Date:	3/17/89	3/20/89	3/14/89	3/20/89	3/22/89	3/14/89
Parameters (concentration in ug/ml unless indicated)						
Inorganic Compounds						
Alkalinity	2.7	2.5	2.47	5.2	0.82	2.9
Aluminum	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ammonia	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Calcium	2.4	6.3	1.1	3.9	3.0	8.6
Chloride	22.8	15.3	3.8	10.3	12.9	19.4
Chromium (hexavalent)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium (total)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Conductivity (umhos/cm)	168.6	121.4	26.9	78.1	85.5	167.0
Copper	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoride	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Hardness	9.4	25.7	4.5	16.7	11.0	36.3
Iron	<0.1	<0.1	<0.1	<0.1	0.18	<0.1
Magnesium	0.78	2.2	0.43	1.5	1.1	2.9
Manganese	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate	5.4	6.1	1.1	4.0	4.1	6.8
Nitrite	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phosphate	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Silcon	3.4	3.7	3.1	3.3	3.6	3.9
Sodium	31.3	13.0	3.2	8.6	11.5	16.5
Sulfate	20.1	<5.0	<5.0	<5.0	<5.0	6.0
Surfactants (MBAS)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Dissolved Solids	138.0	93.0	21.0	49.0	57.0	141.0
Zinc	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

ND Not detected.
ug/ml Micrograms per milliliter.
ug/L Micrograms per liter.

Table 3. Production Well Water-Quality Data, Grumman Aerospace Corporation, Bethpage New York.

Well Number:	1	2	3	4	5	6	8	9
Sample Date:	3/17/89	3/22/89	3/22/89	3/22/89	3/17/89	3/22/89	3/17/89	3/20/89
Parameters (concentration in ug/L unless indicated)								
Organic Compounds								
Acetone	2.0	2.0	ND	4.0	6.0	2.0	2.0	1.0
Benzene	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	9.0	ND	ND	ND	ND	ND	4.0	ND
Chloroform	ND	<1.0	<1.0	<1.0	1.0	ND	2.0	ND
1,1-Dichloroethylene	6.0	5.0	<1.0	2.0	17.0	3.0	83.0	10.0
1,2-Dichloroethylene (total)	5.0	11.0	4.0	5.0	19.0	ND	3.0	<1.0
Methylene Chloride	<1.0	<1.0	ND	<1.0	2.0	<1.0	2.0	<1.0
Methylethyl Ketone	9.0	6.0	7.0	3.0	3.0	<1.0	2.0	1.0
Methylisobutyl Ketone	ND	1.0	ND	2.0	2.0	ND	1.0	ND
Phenol	<1.0	1.0	<1.0	1.2	<1.0	1.0	<1.0	<1.0
Tetrachloroethylene	28.0	30.0	12.0	10.0	96.0	ND	162.0	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	<1.0
1,1,1-Trichloroethane	5.0	6.0	<1.0	2.0	20.0	ND	150.0	43.0
Trichloroethylene	14300.0	671.0	86.0	242.0	1478.0	<1.0	146.0	54.0
Trichlorotrifluoroethane	9.0	5.0	6.0	ND	30.0	ND	4.0	1.0
Vinyl Chloride	ND	ND	ND	ND	52.0	ND	ND	ND
Xylene (total)	<1.0	<1.0	<1.0	<1.0	3.0	<1.0	<1.0	ND

ND Not detected.
ug/ml Micrograms per milliliter.
ug/L Micrograms per liter.

Table 3. Production Well Water-Quality Data, Grumman Aerospace Corporation, Bethpage New York.

Well Number:	10	11	13	14	15	16
Sample Date:	3/17/89	3/25/89	3/14/89	3/20/89	3/22/89	3/14/89
Parameters (concentration in ug/L unless indicated)						
Organic Compounds						
Acetone	1.0	10.0	2.0	9.0	<1.0	2.0
Benzene	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	1.0	ND
Chloroform	<1.0	<1.0	<1.0	ND	<1.0	<1.0
1,1-Dichloroethylene	2.0	2.0	<1.0	2.0	<1.0	2.0
1,2-Dichloroethylene (total)	2.0	<1.0	ND	14.0	<1.0	<1.0
Methylene Chloride	<1.0	<1.0	<1.0	3.0	ND	<1.0
Methylethyl Ketone	ND	ND	1.0	ND	ND	ND
Methylisobutyl Ketone	ND	ND	ND	ND	1.0	ND
Phenol	<1.0	<1.0	<1.0	<1.0	1.0	<1.0
Tetrachloroethylene	ND	ND	ND	132.0	ND	ND
Toluene	ND	ND	<1.0	ND	ND	<1.0
1,1,1-Trichloroethane	7.0	4.0	<1.0	3.0	<1.0	5.0
Trichloroethylene	23.0	41.0	<1.0	42.0	4.0	6.0
Trichlorotrifluoroethane	1.0	3.0	ND	1.0	2.0	ND
Vinyl Chloride	ND	ND	ND	205.0	ND	ND
Xylene (total)	<1.0	<1.0	<1.0	<1.0	<1.0	1.0

ND Not detected.
ug/ml Micrograms per milliliter.
ug/L Micrograms per liter.

A.4 Figure 5 - Water Table Elevation on June 2, 1988 in the Vicinity of the Grumman Aerospace Corporation, Bethpage, New York

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the Grumman Aerospace Corporation, Bethpage, New York.

Well Number:	10998	10988	10999	10999	11000	11000
Sample Date:	6/88	11/88	6/88	12/88	6/88	11/88
Well Depth (ft):	324	324	335	335	131	131
Volatile Organic Compounds (concentrations in ug/L)						
Trichloroethylene	200	170	<1	<1	9	6
Tetrachloroethylene	4	4	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	95	63	<11	--	<10	<2
1,1,1-Trichloroethane	16	15	<1	<1	<1	1
1,1,2-Trichloroethane	<1	<2	<1	--	<1	<2
Chloroform	<1	<1	<1	<1	<1	<1
Bromoform	<2	<2	<1	<1	<2	<2
Vinyl chloride	48	3	<1	<1	1	<1
Carbon tetrachloride	<1	<2	<1	<1	<1	<2
Methylene chloride	--	--	--	--	--	--
Dibromochloromethane	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	6	5	<5	<1	<4	<2
1,2-Dichloroethane	--	--	--	--	--	--
1,1-Dichloroethylene	--	<25	--	<1	--	<25
Benzene	<3	<3	<3	<1	<3	<3
Chlorobenzene	<3	<3	<3	<1	<3	<3
Dichlorobenzene	<20	<12	<15	<1	<20	<12
Ethylbenzene	<4	<3	<4	1	<4	<3
Toluene	<3	<3	<3	6	<3	<5
Xylene	<5	<3	<4	6	<5	<3
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene	11	<20	<8	<1	<8	<15
1,3-Dichloropropene	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--
Total Volatile Organic Compounds	380	260	0	13	10	7

ug/L Micrograms per liter.
* Laboratory contamination suspected.
-- Not analyzed.

Source:

NCDE (1988, 1989)

A.3 Table 3 - Production Well Water-Quality Data, Grumman Aerospace Corporation, Bethpage, New York

Table 3. Production Well Water-Quality Data, Grumman Aerospace Corporation, Bethpage New York.

Well Number:	1	2	3	4	5	6	8	9
Sample Date:	3/17/89	3/22/89	3/22/89	3/22/89	3/17/89	3/22/89	3/17/89	3/20/89
Parameters (concentration in ug/ml unless indicated)								
Inorganic Compounds								
Alkalinity	1.2	1.2	1.7	0.82	4.12	3.3	5.4	1.7
Aluminum	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ammonia	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Calcium	3.0	4.1	4.1	4.4	7.7	7.0	10.8	6.6
Chloride	9.8	13.5	11.9	14.4	23.6	16.8	22.8	14.0
Chromium (hexavalent)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium (total)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Conductivity (umhos/cm)	68.5	104.5	81.8	94.4	146.6	149.3	179.9	118.2
Copper	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoride	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Hardness	11.8	15.1	15.9	18.4	32.2	27.3	43.7	26.5
Iron	<0.1	<0.1	<0.1	<0.1	0.24	0.41	<0.1	<0.1
Magnesium	1.2	1.6	1.5	1.6	2.8	2.5	4.1	2.3
Manganese	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate	4.5	4.7	4.0	4.8	5.3	5.8	4.9	6.0
Nitrite	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phosphate	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Silcon	3.5	4.0	3.5	3.7	4.0	4.5	4.8	3.8
Sodium	7.5	13.4	9.1	11.0	14.9	14.1	16.5	11.9
Sulfate	<5.0	5.8	<5.0	<5.0	8.9	8.6	22.0	5.1
Surfactants (MBAS)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Dissolved Solids	53.0	75.0	58.0	66.0	128.0	91.0	157.0	87.0
Zinc	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

ND Not detected.
ug/ml Micrograms per milliliter.
ug/L Micrograms per liter.

Table 3. Production Well Water-Quality Data, Grumman Aerospace Corporation, Bethpage New York.

Well Number:	10	11	13	14	15	16
Sample Date:	3/17/89	3/20/89	3/14/89	3/20/89	3/22/89	3/14/89
Parameters (concentration in ug/ml unless indicated)						
Inorganic Compounds						
Alkalinity	2.7	2.5	2.47	5.2	0.82	2.9
Aluminum	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ammonia	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Calcium	2.4	6.3	1.1	3.9	3.0	8.6
Chloride	22.8	15.3	3.8	10.3	12.9	19.4
Chromium (hexavalent)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium (total)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Conductivity (umhos/cm)	168.6	121.4	26.9	78.1	85.5	167.0
Copper	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoride	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Hardness	9.4	25.7	4.5	16.7	11.0	36.3
Iron	<0.1	<0.1	<0.1	<0.1	0.18	<0.1
Magnesium	0.78	2.2	0.43	1.5	1.1	2.9
Manganese	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate	5.4	6.1	1.1	4.0	4.1	6.8
Nitrite	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phosphate	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Silcon	3.4	3.7	3.1	3.3	3.6	3.9
Sodium	31.3	13.0	3.2	8.6	11.5	16.5
Sulfate	20.1	<5.0	<5.0	<5.0	<5.0	6.0
Surfactants (MBAS)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Dissolved Solids	138.0	93.0	21.0	49.0	57.0	141.0
Zinc	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

ND Not detected.
ug/ml Micrograms per milliliter.
ug/L Micrograms per liter.

Table 3. Production Well Water-Quality Data, Grumman Aerospace Corporation, Bethpage New York.

Well Number:	1	2	3	4	5	6	8	9
Sample Date:	3/17/89	3/22/89	3/22/89	3/22/89	3/17/89	3/22/89	3/17/89	3/20/89
Parameters (concentration in ug/L unless indicated)								
Organic Compounds								
Acetone	2.0	2.0	ND	4.0	6.0	2.0	2.0	1.0
Benzene	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	9.0	ND	ND	ND	ND	ND	4.0	ND
Chloroform	ND	<1.0	<1.0	<1.0	1.0	ND	2.0	ND
1,1-Dichloroethylene	6.0	5.0	<1.0	2.0	17.0	3.0	83.0	10.0
1,2-Dichloroethylene (total)	5.0	11.0	4.0	5.0	19.0	ND	3.0	<1.0
Methylene Chloride	<1.0	<1.0	ND	<1.0	2.0	<1.0	2.0	<1.0
Methylethyl Ketone	9.0	6.0	7.0	3.0	3.0	<1.0	2.0	1.0
Methylisobutyl Ketone	ND	1.0	ND	2.0	2.0	ND	1.0	ND
Phenol	<1.0	1.0	<1.0	1.2	<1.0	1.0	<1.0	<1.0
Tetrachloroethylene	28.0	30.0	12.0	10.0	96.0	ND	162.0	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	<1.0
1,1,1-Trichloroethane	5.0	6.0	<1.0	2.0	20.0	ND	150.0	43.0
Trichloroethylene	14300.0	671.0	86.0	242.0	1478.0	<1.0	146.0	54.0
Trichlorotrifluoroethane	9.0	5.0	6.0	ND	30.0	ND	4.0	1.0
Vinyl Chloride	ND	ND	ND	ND	52.0	ND	ND	ND
Xylene (total)	<1.0	<1.0	<1.0	<1.0	3.0	<1.0	<1.0	ND

ND Not detected.
ug/ml Micrograms per milliliter.
ug/L Micrograms per liter.

Table 3. Production Well Water-Quality Data, Grumman Aerospace Corporation, Bethpage New York.

Well Number:	10	11	13	14	15	16
Sample Date:	3/17/89	3/25/89	3/14/89	3/20/89	3/22/89	3/14/89
Parameters (concentration in ug/L unless indicated)						
Organic Compounds						
Acetone	1.0	10.0	2.0	9.0	<1.0	2.0
Benzene	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	1.0	ND
Chloroform	<1.0	<1.0	<1.0	ND	<1.0	<1.0
1,1-Dichloroethylene	2.0	2.0	<1.0	2.0	<1.0	2.0
1,2-Dichloroethylene (total)	2.0	<1.0	ND	14.0	<1.0	<1.0
Methylene Chloride	<1.0	<1.0	<1.0	3.0	ND	<1.0
Methylethyl Ketone	ND	ND	1.0	ND	ND	ND
Methylisobutyl Ketone	ND	ND	ND	ND	1.0	ND
Phenol	<1.0	<1.0	<1.0	<1.0	1.0	<1.0
Tetrachloroethylene	ND	ND	ND	132.0	ND	ND
Toluene	ND	ND	<1.0	ND	ND	<1.0
1,1,1-Trichloroethane	7.0	4.0	<1.0	3.0	<1.0	5.0
Trichloroethylene	23.0	41.0	<1.0	42.0	4.0	6.0
Trichlorotrifluoroethane	1.0	3.0	ND	1.0	2.0	ND
Vinyl Chloride	ND	ND	ND	205.0	ND	ND
Xylene (total)	<1.0	<1.0	<1.0	<1.0	<1.0	1.0

ND Not detected.
ug/ml Micrograms per milliliter.
ug/L Micrograms per liter.

A.4 Figure 5 - Water Table Elevation on June 2, 1988 in the Vicinity of the Grumman Aerospace Corporation, Bethpage, New York

WATER-TABLE ELEVATION
ON JUNE 2, 1988 IN THE VICINITY OF
GRUMMAN AEROSPACE CORPORATION
Bethpage, New York

FIGURE 5

A.5 Figure 7 - Proposed Soil-Gas Survey and Recharge Basin Sampling Locations, Grumman Aerospace Corporation, Bethpage, New York; and Figure 8 - Proposed Soil Boring and Monitoring Well Locations, Grumman Aerospace Corporation, Bethpage, New York

GERAGHTY & MILLER, INC.
Environmental Services

DATE PREPARED: 11-89	PROJECT NO.: NY00801	PREPARED FOR: GRUMMAN AEROSPACE CORP. Bethpage, New York	N
REVISION DATE:	FILE NO.: 1006		
G&M OFFICE: PLAINVIEW	CHPTR. FILE: GRM-BRDR		
PREPARED BY: E.D.	COMPILED BY: C.S.	PROJECT MGR.: A.B.	BAR SCALE: 0

EXPLANATION

■ SG-1 PROPOSED LOCATION AND DESIGNATION OF SOIL-GAS SURVEY SITES

● RW/BS-1 PROPOSED LOCATION AND DESIGNATION OF RECHARGE BASIN WATER AND BOTTOM-SEDIMENT SAMPLES.

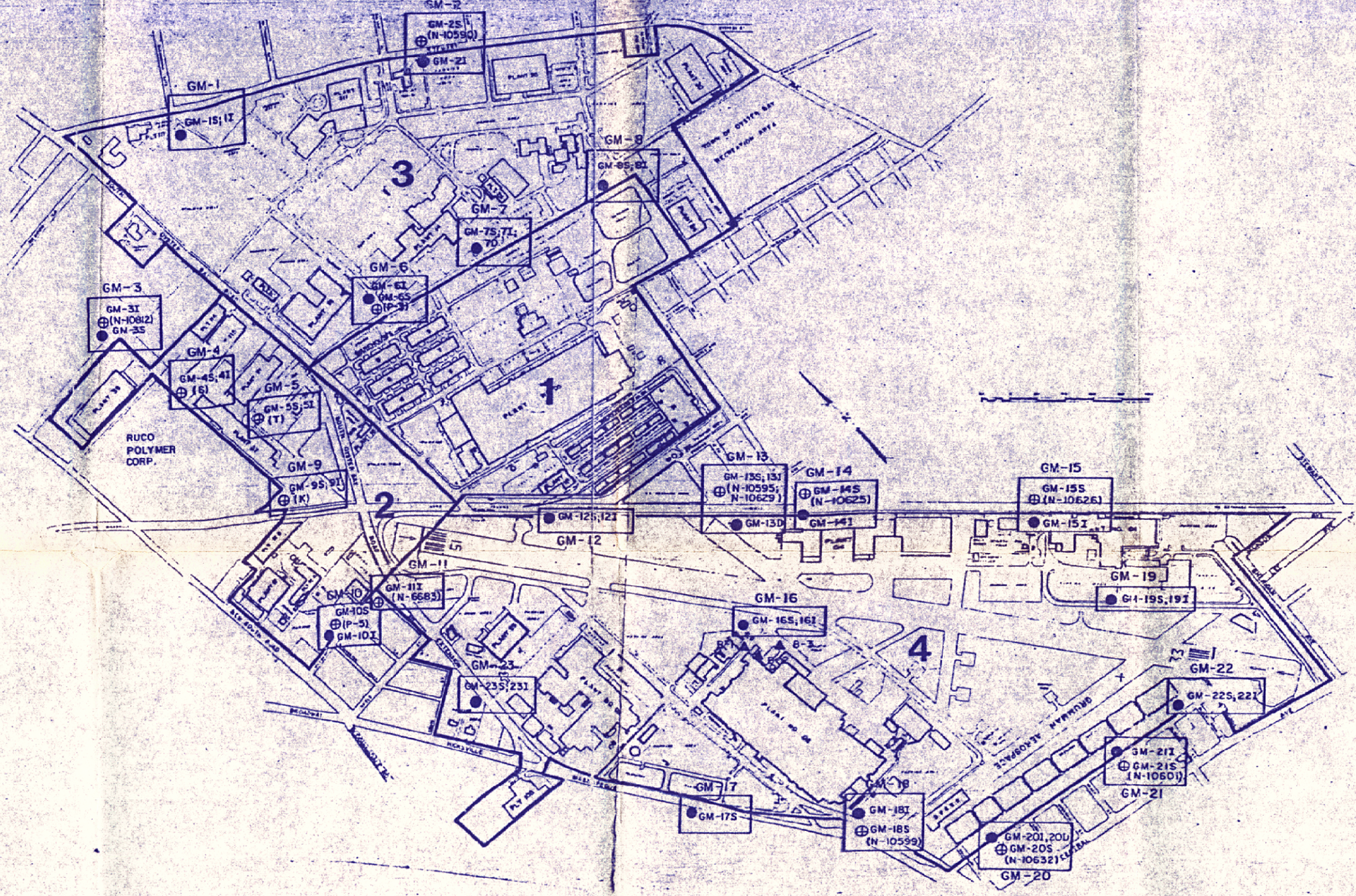
0 1000 FT
SCALE

SUBJECT: PROPOSED SOIL-GAS SURVEY AND RECHARGE BASIN SAMPLING LOCATIONS

FIGURE 7

GERAGHTY & MILLER, INC.
Environmental Services

COMPILED BY: CSC	PROJECT NO.: NY01176P01	SCALE: shown	PREPARED FOR: GRUMMAN AEROSPACE CORP. Bethpage, New York
PREPARED BY: Elaine DeLuca	FILE NO.: 1005	DATE: 8-89	
PROJECT MGR.: CSC	DRAWING FILE:		



EXPLANATION

- GM-2S (N-10590) ⊕ EXISTING WELL LOCATION AND DESIGNATION
- GM-1S ● PROPOSED WELL LOCATION AND DESIGNATION
- GM-1 □ PROPOSED WELL CLUSTER LOCATION AND DESIGNATION
- 1 LOCATION AND DESIGNATION OF SITE AREAS
- ( ) INDICATES EXISTING WELL DESIGNATION
- B-1 ▲ PROPOSED SOIL BORING LOCATION AND DESIGNATION

SUBJECT: PROPOSED SOIL BORING AND MONITORING WELL LOCATIONS

FIGURE 8

APPENDIX B

SAMPLE LOG SHEETS

B.1 - SURFACE AND SUBSURFACE SOILS

B.2 - MONITORING WELLS - TEMPORARY AND PERMANENT

B.3 - SURFACE WATER/SEDIMENTS

B.4 - PRODUCTION WELLS

B.1

SURFACE AND SUBSURFACE SOILS

NUS CORPORATION

SAMPLE LOG SHEET
TABLE OF CONTENTS

SAMPLE NUMBER	DATE SAMPLED	SAMPLE NAME	PAGE NO.
BP-SS-01-TB	08-30-91	SURFACE SOIL - TRIP BLANK	1
BP-SS-1-0100	09-04-91	SURFACE SOIL FROM SITE #-1	2
BP-SS-1-0200	09-04-91		3
BP-SS-1-0300			4
BP-SS-1-0300-D		(DUP)	5
BP-SS-1-0400			6
BP-SS-1-0500			7
BP-SS-1-0600			8
BP-SS-1-2500-MS		(MATRIX SPIKE)	9
BP-SS-01-FB		SURFACE SOIL - FIELD BLANK	10
BP-SS-01-RB		- RINSATE BLANK	11
BP-SS-02-TB	08-29-91	SURFACE SOIL - TRIP BLANK	12
BP-SS-2-0700	09-05-91	SURFACE SOIL FROM SITE #2	13
BP-SS-2-0800			14
BP-SS-02-RB		SURFACE SOIL RINSATE BLANK	15
BP-SS-2-0900		SURFACE SOIL FROM SITE #2	16
BP-SS-2-1000			17
BP-SS-2-1000-D		(DUP)	18
BP-SS-2-1100			19
BP-SS-2-1200			20
BP-SS-2-1300			21
BP-SS-2-1400			22
BP-SS-03-TB	08-30-91	SURFACE SOIL - TRIP BLANK	23
BP-SS-2-1500	09-06-91	SURFACE SOIL FROM SITE #2	24
BP-SS-2-1600			25
BP-SS-2-1700			26
BP-SS-2-1800			27

NUS CORPORATION

SAMPLE LOG SHEET TABLE OF CONTENT

SAMPLE NUMBER	DATE SAMPLED	SAMPLE NAME	PAGE NO.
BP-SS-2-2600	09-06-91	SURFACE SOIL FROM SITE #2	28
BP-SS-2-2600-D	↓	↓	29
BP-SS-03-RB	↓	SURFACE SOIL - RINSATE BLANK	30
BP-SS-04-TB	08-30-91	SURFACE SOIL - TRIP BLANK	31
BP-SS-3-1900	09-09-91	SURFACE SOIL FROM SITE #3	32
BP-SS-3-2000	↓	↓	33
BP-SS-3-2100	↓	↓	34
BP-SS-3-2700	↓	↓	35
BP-SS-3-2700-D	↓	↓ (DUP)	36
BP-SS-3-2800	↓	↓	37
BP-SS-04-RB	↓	SURFACE SOIL - RINSATE BLANK	38
BP-SS-05-TB	08-30-91	SURFACE SOIL - TRIP BLANK	39
BP-SS-3-2200-MS	09-10-91	SURFACE SOIL FROM SITE #3 (MATRIX SPIKE)	40
BP-SS-3-2300	↓	↓	41
BP-SS-3-2400	↓	↓	42
BP-SS-3-2900	↓	↓	43
BP-SS-05-RB	↓	SURFACE SOIL - RINSATE BLANK	44

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [x] Other BLANK

Page 1 of 44

Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-01-TB Source Location TRIP BLANK

Sample Method: SEE NOTES ~~SS TROWEL~~ (TR)

Depth Sampled: ~~1-6"~~ (TR)

Sample Date & Time: 08-30-91

Sampled By: ORTEK / TR

Signature(s): [signature]

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Composite Sample Data		
Sample	Time	Color / Description
	N/A	

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)

Analysis	Taken?	Bottle ID #	CoC #	Notes
ROUTINE :				TRIP BLANK prepared by ORTEK LAB.
TCL VOLATILES	✓	N/A	# 16	
TCL BNA				
TAL METALS				
CYANIDE				
STAINED SOIL :				
TCL PCBs / PESTICIDES				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Page 2 of 44
Case # —
By TR

Project Site Name NWIRP BETHPAGE
Project Site Number 3281
NUS Source No. BP-SS-1-0100
Source Location Site-1

Sample Method: SS TROWEL	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 9/4/91 0820			
Sampled By: TR		N/A	
Signature(s): [signature]			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
TAN	W/ GRAVEL ; TRACE ORGANICS (ROOTS)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE :				
TCL VOLATILES	✓	B1084-2	#16	Loc. in SCRAP AREA
TCL BNA	✓	05169106	↓	
TAL METALS	✓	↓	↓	
CYANIDE	✓			
STAINED SOIL :				
TCL PCBs/Pesticides				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-1-0200 Source Location Site-1

Sample Method:	SS TROWEL
Depth Sampled:	1-6"
Sample Date & Time:	9/4/91 0840
Sampled By:	TR
Signature(s):	Terry Nogal

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [ ] Grab
- [ ] Composite
- [x] Grab - Composite

Composite Sample Data

Sample	Time	Color / Description
	N/A	

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Brown	Fine some gravel trace organics (roots)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL VOLATILES	✓	B1084-2	#16	
TCL BNA	✓	05169106	↓	
TAL METALS	✓	↓	↓	
CYANIDE	✓	↓	↓	
STAINED SOIL:				
TCL PCBs/Pesticides	✓	05169106	#16	

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # –

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-1-0300 Source Location Site-1

	Composite Sample Data		
Sample Method: SS TROWEL	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 09-04-91 0930			
Sampled By: TR.			
Signature(s): [signature]		N/A	
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Dark Grey	Fine Abundant grave l

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL VOLATILES	✓	B1094-2	#16	Resembles Fill
TCL BNA	✓	05169106		
TAL METALS	✓			
CYANIDE	✓	↓	↓	
STAINED SOIL:				IN LAY down area pipes, manhole lids, etc.
TCL PCBs/Pesticides				
				WEST OF Concrete pad

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Page 5 of 44

Case # —

By TK

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS+0300-D Source Location Site-1

	Composite Sample Data		
Sample Method: SS TROWEL	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 09-04-91 0930			
Sampled By: TK		N/A	
Signature(s): [signature]			

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Dark Grey	Abundant Gravel

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL VOLATILES	✓	B1084-2	#16	DUP FOR VOLATILES ONLY
TCL BNA				
TAL METALS			TK	
CYANIDE				
STAINED SOIL:				
TCL PCBs/PESTICIDES				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # —

By TK

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-1-0400 Source Location Site - 1

Sample Method:	Composite Sample Data		
S.S TROWEL	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 09-04-91 0955			
Sampled By: TK		H/P	
Signature(s): [signature]			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description (Sand, Clay, Dry, Moist, Wet, etc.)
Brown →	Light Gray Damp

Analysis	Taken?	Bottle ID #	C of C #	Notes
Routine :				NE of concrete pad next to asphalt & concrete debris piles. Near dike/berm. Resembles fill
TCL Volatiles	✓	B1084-2	#16	
TCL BNA	✓	05169106		
TAL Metals	✓	↓	↓	
Cyanide	✓			
Stained Soil :				
TCL PCBs/Pesticides				

NUS CORPORATION
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SAMPLE LOG

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-1-0500 Source Location Site-1

	Composite Sample Data		
	Sample	Time	Color / Description
Sample Method: SS TROWEL			
Depth Sampled: 1-6"			
Sample Date & Time: 07-04-91 1045			
Sampled By: TR			
Signature(s): [signature]		N/A	
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Lt. grey to tan	Abundant gravel (Damp)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				NEAR N BANK/DIKE IN DUMPSTER AREA. RESEMBLES FILL
TCL VOLATILES	✓	B1084-2	#16	
TCL BNA	✓	05169106		
TAL METALS	✓	↓	↓	
CYANIDE	✓			
STAINED SOIL:				
TCL PCBs/Pesticides				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # -

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-1-0600 Source Location Site 1

Sample Method: SS TROWEL	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 09-04-91 1030			
Sampled By: TR			
Signature(s): [signature]		N/A	

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Grey	Damp Abundant gravel

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				Resembles Fill
TCL VOLATILES	✓	B1084-2	#16	
TCL BNA	✓	05169106		
TAL METALS	✓			
CYANIDE	✓			
STAINED SOIL:				
TCL PCBs/PESTICIDES				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-1-2500-MS Source Location Site-1

Sample Method: SS TROWEL	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 09-04-91 1100			
Sampled By: TR		N/A	
Signature(s): [signature]			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data		
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
BRN → Grey	Abundant Gravel	Resembles F.11

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				Taken West side of concrete pad next to transformer w/PCB label
TCL VOLATILES	✓	B1094-2		
TCL BNA	✓	0516106		
TAL METALS	✓	↓		
CYANIDE	✓			
STAINED SOIL:				
TCL PCBs/Pesticides	✓			

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [x] Other _____

Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-01-FB Source Location FIELD BLANK

	Composite Sample Data		
Sample Method: SEE NOTES ~~SS TROWEL~~ TR	Sample	Time	Color / Description
Depth Sampled: ~~1-6"~~ TR			
Sample Date & Time: 09/04/91 1945			
Sampled By: TR			
Signature(s): [signature]		N/A	
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			
	Sample Data		
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				Steam Distilled H_2O poured Directly into Sample Bottles.
TCL VOLATILES	✓	B 1084-2	#16	
TCL BNA	✓	N/A	↓	
TAL METALS	✓	↓	↓	
CYANIDE	✓	↓	↓	
STAINED SOIL:				
TCL PCBs/Pesticides	✓	N/A	#16	Lot # 13091 FROM ELECTRIFIC WATER CO.

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

Page 11 of 44

Case # —

By TR

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [x] Other Rinsate Blank

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-01-RB Source Location RINSATE BLANK

Sample Method: Steam Distilled H_2O Poured Over a SS TROWEL

Depth Sampled: ~~1-6"~~ TR

Sample Date & Time: 09/04/91 1425

Sampled By: TR

Signature(s): [signature]

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Composite Sample Data

Sample	Time	Color / Description
	N/A	

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL VOLATILES	✓	B1084-2	#16	
TCL BNA	✓	N/A	↓	
TAL METALS	✓	↓	↓	Steam Distilled H_2O Lot # 13091 ELECTRIFIED WATER CO.
CYANIDE	✓	↓	↓	
STAINED SOIL:				
TCL PCBs/Pesticides	✓	HP	#16	

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [x] Other Trip Blank

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Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-02-TB Source Location Trip Blank

	Composite Sample Data		
Sample Method: Prep. by ORTEK ~~SS TROWEL~~ TR	Sample	Time	Color / Description
Depth Sampled: ~~1-6"~~ TR			
Sample Date & Time: 08-29-91			
Sampled By: ORTEK / TR			
Signature(s): [signature]		N/A	

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL VOLATILES	✓	N/A	# 17	
TCL BNA				
TAL METALS				
CYANIDE				
STAINED SOIL:				
TCL PCBs / Pesticides				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-2-0700 Source Location Site-2

Sample Method: SS TROWEL	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 9/5/91 0845			
Sampled By: TR		N/A	
Signature(s): [signature]			
Type of Sample			

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
TAN	DAMP Abundant GRAVEL; organics (roots)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE S				Adjacent to boring C cemetery.
TCL VOLATILES	✓	B1089-2	#17	
TCL BNA	✓	05029110		
TAL METALS	✓	↓	↓	
CYANIDE	✓			
STAINED SOIL S				
TCL PCBs/Pesticides				

NUS CORPORATION
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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-2-0800 Source Location Site-2

Sample Method: SS TROWEL	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 9/5/91 0905			
Sampled By: TR		N/A	
Signature(s): [signature]			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Tan → Brown	Coarse Sand Abundant gravel

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				SE corner of the western most basin.
TCL VOLATILES	✓	B1084-2	#17	
TCL BNA	✓	U5029110		
TAL METALS	✓	↓	↓	
CYANIDE	✓			
STAINED SOIL:				
TCL PCBs/Pesticides				

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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [x] Other Rinsate Blank

Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-02-RB Source Location Rinsate Blank

Sample Method: SEE NOTES ~~SS TROWEL~~ (TR)	Composite Sample Data
Depth Sampled: ~~1-6"~~ (TR)	
Sample Date & Time: 09-05-91 1100	
Sampled By: TR	
Signature(s): [signature]	
Type of Sample: [x] Low Concentration; [ ] High Concentration; [x] Grab; [ ] Composite; [ ] Grab - Composite	

Composite Sample Data		
Sample	Time	Color / Description

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				Hold! Analyze only if Rinsate Problems are Detected.
TCL VOLATILES	✓	B1084-2	# 17	
TCL BNA	✓	N/A		
TAL METALS	✓	↓		
CYANIDE	✓			
STAINED SOIL:				
TCL PCBs/Pesticides				Steam Dist. H2O Water Lot # 13091 From Electrified Water Co. H_2O poured over SS Trowel.

NUS CORPORATION
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SAMPLE LOG SHEET

Case # —

By TR

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other ______

Project Site Name NWIRP BETHPAGE   Project Site Number 3281

NUS Source No. BP-SS-2-0900   Source Location Site-2

Sample Method: SS TROWEL

Depth Sampled: 1-6"

Sample Date & Time: 09/05/91 1200

Sampled By: [signature] TR

Signature(s): [signature]

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Composite Sample Data

Sample	Time	Color / Description
N/A		

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
TAN-BROWN	Coarse Sand; Abundant Gravel / Damp

Analysis	Taken?	Bottle ID #	C of C #
ROUTINE:			
TCL VOLATILES	✓	B1084-2	#17
TCL BNA	✓	05029110	↓
TAL Metals	✓		
CYANIDE	✓	↓	↓
STAINED SOIL:			
TCL PCBs/Pesticides			

Notes: South of SE Basin Adjacent to Boring hole

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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # —

By TK

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-2-1000 Source Location Site-2

Sample Method:	Composite Sample Data		
SS TROWEL	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 9/5/91 1215			
Sampled By: TK		N/A	
Signature(s): [signature]			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BROWN	Resembles Fill Abundant organics (roots)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				SE Corner of Site 2 Adjacent to soil boring
TCL VOLATILES	✓	B1084-2	#17	
TCL BNA	✓	05023110	↓	
TAL METALS	✓	↓	↓	
CYANIDE	✓			
STAINED SOIL:				
TCL PCBs/Pesticides				

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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By TK

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-2-1000-D Source Location Site-2

Sample Method: SS TROWEL	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 9/5/91 1215			
Sampled By: TK		N/A	
Signature(s): [signature]			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Brown	Resembles Fill Abundant organics (Roots)

Analysis	Taken?	Bottle ID #	C of C #	Notes
Routine:				
TCL Volatiles	✓	B1004-2	#17	SE Corner of Site-2
TCL BNA	✓	05009110	↓	
TAL Metals	✓	↓	↓	
Cyanide	✓	↓	↓	
Stained Soil:				
TCL PCBs/Pesticides				

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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-2-1100 Source Location Site-2

Sample Method: SS TROWEL	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 9/5/91 1240			
Sampled By: TR			
Signature(s): [signature]			
Type of Sample			

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
TAN	Abundant Gravel, TRACE ORGANICS

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				Collected between ON site (Site-2) Concrete block Bldg. & Waste treatment Plant WEST of Block bldg. & South of Fill stock pile AREA.
TCL VOLATILES	✓	B1094-2	#17	
TCL BNA	✓	05029110	↓	
TAL METALS	✓	↓	↓	
CYANIDE	✓			
STAINED SOIL:				
TCL PCBs/Pesticides				

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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —
By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-SS-2-1200 Source Location Site-2

Sample Method:	SS TROWEL
Depth Sampled:	1-6"
Sample Date & Time:	9/5/91 1300 hrs
Sampled By:	TR
Signature(s):	[signature]

Composite Sample Data

Sample	Time	Color / Description
	N/A	

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Brown	Resembles Fill Abundant Gravel

Analysis	Taken?	Bottle ID #	C of C #
ROUTINE:			
TCL VOLATILES	✓	B1094-2	#17
TCL BNA	✓	N/A	↓
TAL METALS	✓	↓	↓
CYANIDE	✓	↓	↓
STAINED SOIL:			
TCL PCBs/Pesticides			

Notes

North of Site 2 Block Bldg Apron ~20' in line with dike road (E&W) between NE & SE Basins & just West of Main haul Road that traverses the site running N & S.

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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —
By TR

Project Site Name NWIRP BETHPAGE
Project Site Number 3281
NUS Source No. BP-SS-2-1300
Source Location Site-2

Sample Method:	Composite Sample Data		
SS TROWEL	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 9/5/91 1315 hrs			
Sampled By: TR		N/A	
Signature(s): [signature]			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description (Sand, Clay, Dry, Moist, Wet, etc.)
TAN→BRN	DRY → MOIST Abundant GRAVEL TRACE ORGANICS

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE :				
TCL VOLATILES	✓	B1094-2	# 17	
TCL BNA	✓	N/A	↓	
TAL METALS	✓	↓	↓	
CYANIDE	✓	↓	↓	
STAINED SOIL :				
TCL PCBs / PESTICIDES				

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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-2-1400 Source Location Site-2

Sample Method: S.S TROWEL	
Depth Sampled: 1-6"	
Sample Date & Time: 9/5/91 1330	
Sampled By: TR	
Signature(s): [signature]	

Composite Sample Data

Sample	Time	Color / Description
	N/A	

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Brn	Dry → moist Abundant gravel, Organics (Roots)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL VOLATILES	✓	B1084-2	#17	IN LINE with DIKE ROAD EAST SIDE OF BASINS.
TCL BNA	✓	N/A		
TAL METALS	✓			
CYANIDE	✓			
STAINED SOIL:				
TCL PCBs/PESTICIDES				

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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [x] Other TRIP BLANK

Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-03-TB Source Location TRIP BLANK

Sample Method: SEE NOTES ~~S.S TROWEL~~ (TR)

Depth Sampled: ~~1-6"~~ (TR)

Sample Date & Time: 8-30-91 —

Sampled By: ORTEK / TR

Signature(s): [signature]

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Composite Sample Data

Sample	Time	Color / Description
	N/A	

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE :				PREP BY ORTEK LAB
TCL VOLATILES	✓	N/A	# 18	
TCL BNA				
TAL METALS				
CYANIDE				
STAINED SOIL :				
TCL PCBs / PESTICIDES				

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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-2-1500 Source Location Site-2

Sample Method: SS TROWEL	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 9/6/91 0750			
Sampled By: TR			
Signature(s): [signature]		N/A	

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BROWN	Resembles Fill: silt Damp → Dry Abundant Gravel; Organics

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				NW Corner of Site-2, Adjacent to Soil Piles.
TCL VOLATILES	✓	B1094-2	#18	
TCL BNA	✓	05169106	↓	
TAL METALS	✓	↓	↓	
CYANIDE	✓	↓	↓	
STAINED SOIL:				
TCL PCBs/Pesticides				

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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # —

By TK

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-2-1600 Source Location S.1c-2

Sample Method: SS TROWEL	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 9/6/91 0815			
Sampled By: TK			
Signature(s): [signature]		N/A	
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
TAN	Dry - Damp Abundant Gravel

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				NE CORNER OF Soil stock pile AREA.
TCL VOLATILES	✓	B1084-2	II/8	
TCL BNA	✓	05/69/06	↓	
TAL METALS	✓	↓	↓	
CYANIDE	✓			Stockpile Area also contains stockpiles of mulch, gravel cut grass woody debris, etc
STAINED SOIL:				
TCL PCBs/Pesticides				

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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # –

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-2-1700 Source Location Site-2

Sample Method: SS TROWEL	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 9/6/91 0840			
Sampled By: TR			
Signature(s): [signature]		N/A	

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
TAN	Abundant GRAVEL ; ORGANICS (Roots)

Analysis	Taken ?	Bottle ID #	C of C #	Notes
ROUTINE :				Just North of the North East Basin.
TCL VOLATILES	✓	BN84-2	#18	
TCL BNA	✓	05169106	↓	
TAL METALS	✓	↓	↓	
CYANIDE	✓			
STAINED SOIL :				
TCL PCBs/Pesticides				

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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-2-1800 Source Location Site-2

Sample Method:	Composite Sample Data		
SS TROWEL	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 9/6/91 0855			
Sampled By: TR		N/A	
Signature(s): [signature]			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
TAN	Abundant Gravel & Organics

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				NE Corner of Site-2
TCL VOLATILES	✓	B1084-2	#18	
TCL BNA	✓	05169106	↓	
TAL METALS	✓	↓	↓	
CYANIDE	✓			
STAINED SOIL:				
TCL PCBs/Pesticides				

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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # —

By TC

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-2-2600 Source Location Site-2

Sample Method: SS TROWEL	
Depth Sampled: 1-6"	
Sample Date & Time: 9/6/91 0910	
Sampled By: T.A	
Signature(s): [signature]	
Type of Sample: [x] Low Concentration; [ ] High Concentration; [x] Grab; [ ] Composite; [ ] Grab - Composite	

Composite Sample Data

Sample	Time	Color / Description
	N/A	

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BRN	Resembles Fill (Silt/Sand) Abundant Gravel

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE S				Center of Stock Pile Area; Formerly Drying Bed Area.
TCL VOLATILES	✓	B1089-2	F18	
TCL BNA	✓	05169106	↓	
TAL METALS	✓	↓	↓	
CYANIDE	✓	↓	↓	
STAINED SOIL S				
TCL PCBs/Pesticides	✓	↓	↓	

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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-2-2600-D Source Location Site-2

	Composite Sample Data		
	Sample	Time	Color / Description
Sample Method: SS TROWEL			
Depth Sampled: 1-6"			
Sample Date & Time: 9/6/91 0910			
Sampled By: TR			
Signature(s): [signature]		N/A	
Type of Sample			

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BRN	Resembles Fill (Silt/Sand) Dry Abundant Gravel.

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE S				Center of Stock pile. Area; Formerly DRYING BED PREP.
TCL VOLATILES	✓	B1084-2	# 18	
TCL BNA	✓	05169106		
TAL METALS	✓			
CYANIDE	✓			
STAINED SOIL S				
TCL PCBs/PESTICIDES	✓			

SAMPLE LOG SHEET

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- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other Rinsate Blank

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Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-03-RB Source Location Rinsate Blank

Sample Method: Stean Distilled poured over S.S. trowel SS TROWEL	
Depth Sampled: 1-6" (TR)	
Sample Date & Time: 09-06-91 1200	
Sampled By: TR	
Signature(s): [signature]	

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Composite Sample Data

Sample	Time	Color / Description
	N/A	

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)

Analysis	Taken?	Bottle ID #	C of C #
ROUTINE:			
TCL VOLATILES	✓	B1089-2	#18
TCL BNA	✓	N/A	↓
TAL METALS	✓	↓	↓
CYANIDE	✓	↓	↓
STAINED SOIL:			
TCL PCBs/Pesticides			

Notes

Stean Distilled H_2O Lot # 13091 FROM ELECTRIFIE WATER C.O.

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SAMPLE LOG SHEET

Case # —

By TR

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [x] Other Trip Blank

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-04-TB Source Location Trip Blank

Sample Method: See Notes ~~SS Trowel~~ TR

Depth Sampled: ~~1-6"~~ TR

Sample Date & Time: 8/30/91

Sampled By: Ortek / TR

Signature(s): [signature]

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Composite Sample Data

Sample	Time	Color / Description

N/A

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL VOLATILES	✓	—	#19	Ortek LAB Prepared Trip Blank
TCL BNA				
TAL METALS				
CYANIDE				
STAINED SOIL:				
TCL PCBs/Pesticides				

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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-3-1900 Source Location Site 3

Sample Method: SS TROWEL	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 9/9/91 1230hrs			
Sampled By: TR		N/A	
Signature(s): [signature]			

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Brn	Resembles Fill (Silt / Sand / some gravel / Adundant Roots

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				SW corner of parking lot in grassy strip.
TCL VOLATILES	✓	B1084-2	#19	
TCL BNA	✓	05019110	↓	
TAL METALS	✓	↓	↓	
CYANIDE	✓	↓	↓	
STAINED SOIL:				
TCL PCBs / PESTICIDES				

SAMPLE LOG SHEET

NUS CORPORATION
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- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # —

By TK

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-3-2000 Source Location Site-3

Sample Method: SS TROWEL	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 9/9/91 1300 hrs			
Sampled By: TK			
Signature(s): [signature]			

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.) some roots
BrH	Resembles Fill - Silt/sand Abundant Gravel

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				# TK
TCL VOLATILES	✓	B1084-2	#19	SW Corner of present
TCL BNA	✓	05019110	↓	Salvage Yard
TAL Metals	✓	↓	↓	
CYANIDE	✓	↓	↓	
STAINED SOIL:				
TCL PCBs/Pesticides				

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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-3-2100 Source Location Site-3

Sample Method: SS TROWEL	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 9/9/91 1330 hrs			
Sampled By: TR			
Signature(s): [signature]			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BRN	Resembles Fill (Silt Sand) Abundant Gravel

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				SE Corner of Salvage yard with gravel cover.
TCL VOLATILES	✓	B1RA-2	#19	
TCL BNA	✓	05019110		
TAL METALS	✓			
CYANIDE	✓			
STAINED SOIL:				
TCL PCBs/Pesticides				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-3-2700 Source Location Site-3

Sample Method: SS TROWEL	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 9/9/91 1400			
Sampled By: TR		N/A	
Signature(s): [signature]			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.) Black stained soil Abundant Gravel

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				In Salvage Yard @ Drum Storage Area approx. Half way between Locations 20 & 21. Dark Stained Soil
TCL VOLATILES	✓	B1162-1	#19	
TCL BNA	✓	05029110	↓	
TAL METALS	✓	↓	↓	
CYANIDE	✓	↓	↓	
STAINED SOIL:				
TCL PCBs/Pesticides	✓	↓	↓	

SAMPLE LOG SHEET

NUS CORPORATION
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- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-3-2700-D Source Location Site-3

Sample Method:	SS TROWEL
Depth Sampled:	1-6"
Sample Date & Time:	9/9/91 1400
Sampled By:	TR
Signature(s):	[signature]

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Composite Sample Data

Sample	Time	Color / Description

N/A

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
	Black stained Soil Abundant Gravel

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL VOLATILES	✓	B1162-1	#19	Same As
TCL BNA	✓	05029110	↓	BP-SS-3-2700
TAL METALS	✓	↓	↓	
CYANIDE	✓	↓	↓	
STAINED SOIL:				
TCL PCBs/PESTICIDES				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # _____

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-3-2800 Source Location Site-3

Sample Method: SS TROWEL	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 1430			
Sampled By: TR			
Signature(s): [signature]			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Brown	Resembles Fill (Abundant Gravel)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				Taken down gradient of salvaged transformers in salvage yard
TCL VOLATILES	✓	B1162-1	T19	
TCL BNA	✓	05029110		
TAL METALS	✓			
CYANIDE	✓			
STAINED SOIL:				
TCL PCBs/Pesticides	✓			

NUS CORPORATION
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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [x] Other Rinsate

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Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-04-RB Source Location Rinsate Blank

Sample Method: See Notes ~~SS Trowel~~	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: ~~0-6"~~ —			
Sample Date & Time: 9/9/91 1600			
Sampled By: TR			
Signature(s): [signature]		N/A	
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab	Sample Data		
[ ] Composite	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
[ ] Grab - Composite			

Analysis	Taken?	Bottle ID #	C of C #	Notes
Routine:				Poured steam Distilled H_2O over SS Trowel Electrified H_2O Co. Lot # 13091
TCL Volatiles	✓	B1162-1	#19	
TCL BNA	✓	N/A	↓	
TAL Metals	✓	↓	↓	
Cyanide	✓	↓	↓	
Stained Soil:				
TCL PCBs/Pesticides				

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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [x] Other Trip Blank

Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-05-TB Source Location Trip Blank

Sample Method: Prep. At Ortek Lab ~~SS Trowel~~ TR	
Depth Sampled: 1-6"	
Sample Date & Time: 8/30/91 —	
Sampled By: ORTEK / TR	
Signature(s): [signature]	

Composite Sample Data

Sample	Time	Color / Description
	N/A	

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL VOLATILES	✓	—	#20	
TCL BNA				
TAL METALS				
CYANIDE				
STAINED SOIL:				
TCL PCBs/PESTICIDES				

NUS CORPORATION
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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # –

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-3-2200 MS Source Location Site-3

Sample Method:	Composite Sample Data		
SS TROWEL	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 9/10/91 0830			
Sampled By: TR		N/A	
Signature(s): [signature]			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.) Damp
Brown	Recently Fill Sand / Silt Abundant gravel / some organic

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				Bone Yard ≈ center of South Fence
TCL VOLATILES	✓	B1084-2	#20	
TCL BNA	✓	05019110	↓	
TAL METALS	✓	↓	↓	
CYANIDE	✓	↓	↓	
STAINED SOIL:				
TCL PCBs/Pesticides				

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SAMPLE LOG SHEET

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- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-3-2300 Source Location Site -3

Sample Method: SS TROWEL	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 9/10/91 0900			
Sampled By: TR			
Signature(s): [signature]		N/A	
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.) Resembles Fill
Tan → Brn	/ Sand/Silt Abundant gravel some organics

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE S				NW corner of Burn Yard
TCL VOLATILES		B1084-2	#20	
TCL BNA		05019110		
TAL METALS		↓	↓	
CYANIDE		↓	↓	
STAINED SOIL S				
TCL PCBs/Pesticides				

NUS CORPORATION
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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-3-2400 Source Location Site 3

Sample Method: SS TROWEL	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 1-6"			
Sample Date & Time: 9/10/91 0930			
Sampled By: TR		N/A	
Signature(s): [signature]			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Brown	Resembles Fill (Silt/Sand) Abundant gravel

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE S				NE CORNER OF BONE YARD
TCL VOLATILES	✓	B1089-2	#20	
TCL BNA	✓	05019110		
TAL METALS	✓	↓	↓	
CYANIDE	✓			
STAINED SOIL S				
TCL PCBs/Pesticides				

SAMPLE LOG SHEET

NUS CORPORATION
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- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By TL

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-3-2900 Source Location Site - 3

Sample Method:	SS TROWEL
Depth Sampled:	1-6"
Sample Date & Time:	9/10/91 0945
Sampled By:	TL
Signature(s):	[signature]

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Composite Sample Data

Sample	Time	Color / Description
	N/A	

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Dark Brn	Damp Resembles Fill (Silt/Sand) Abundant gravel some organics

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL VOLATILES	✓	B1162-1	II 20	≈ Center of Bone Yard
TCL BNA	✓	05029110		
TAL METALS	✓			
CYANIDE	✓			
STAINED SOIL:				
TCL PCBs/Pesticides	✓			

NUS CORPORATION
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SAMPLE LOG SHEET

- [x] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [x] Other Rinsate Blank

Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SS-05-RB Source Location Stan. Distilled H_2O; Lot # 13091

Sample Method: Distilled H_2O poured over SS Trowel

Depth Sampled: ~~1-6"~~ TR —

Sample Date & Time: 9/10/91 1015

Sampled By: TR

Signature(s): [signature]

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Composite Sample Data

Sample	Time	Color / Description

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL VOLATILES	✓	81162-1	#20	
TCL BNA	✓	—	↓	
TAL METALS	✓	—	↓	
CYANIDE	✓	—	↓	
STAINED SOIL:				
TCL PCBs/Pesticides				

NUS CORPORATION

SAMPLE LOG SHEET
TABLE OF CONTENTS

SAMPLE NUMBER	DATE SAMPLED	SAMPLE NAME	PAGE NO.
BP-SB-1-11903	08-26-91	Boring 119 3-5'	SB1
BP-SB-1-11919		119 19-21'	SB2
BP-SB-1-11303		113 3-5'	SB3
BP-SB-1-11319		113 19-21'	SB4
BP-SB-1-10303		103 3-5'	SB5
BP-SB-1-10319		103 19-21'	SB6
BP-SB-1-11103		111 3-5'	SB7
BP-SB-1-11119		111 19-21'	SB8
BP-SB-01-TB	08-22-91	Soil Boring - TRIP BLANK	SB9
BP-SB-02-TB	08-22-91	Soil Boring - TRIP BLANK	SB9A
BP-SB-1-11203	08-26-91	Boring 112 - 3-5'	SB10
BP-SB-1-11219		112 19-21'	SB11
BP-SB-1-10419	08-27-91	104 19-21'	SB12
BP-SB-1-10419-D		104 19-21' (DUP)	SB13
BP-SB-1-11503		115 3-5'	SB14
BP-SB-1-11519		115 19-21	SB15
BP-SB-3-33803		338 3-5'	SB16
BP-SB-3-33819		338 19-21'	SB17
BP-SB-3-33403		334 3-5	SB18
BP-SB-3-33419		334 19-21	SB19
BP-SB-01-FB		Soil Boring - FIELD BLANK	SB20
BP-SB-01-RB		Soil Boring - RINSATE BLANK	SB21
BP-SB-1-12103		Boring 121 3-5'	SB22
BP-SB-1-12103-D		121 3-5'	SB23
BP-SB-1-12119		121 19-21'	SB24
BP-SB-03-TB	08-22-91	Soil Boring TRIP BLANK	SB25
BP-SB-3-32903	8-27-91	Boring 329 3-5'	SB26

NUS CORPORATION — **SAMPLE LOG SHEET TABLE OF CONTENT**

SAMPLE NUMBER	DATE SAMPLED	SAMPLE NAME		PAGE NO.
BP-SB-1-11003-MS	8-27-91	Soil Boring 110	Matrix Spike/Dup 3-5'	SB27
BP-SB-3-31803	8-28-91	Boring 318	3-5'	SB28
BP-SB-3-31819	↓	318	19-21'	SB29
BP-SB-3-30403	↓	304	3-5'	SB30
BP-SB-3-30419	↓	304	19-21'	SB31
BP-SB-1-12303	↓	123	3-5'	SB32
BP-SB-1-12319	↓	123	19-21'	SB33
BP-SB-3-31603	↓	316	3-5'	SB34
BP-SB-3-31619	↓	316	19-21'	SB35
BP-SB-04-TB	8-22-91	Soil Boring Trip Blank		SB36
BP-SB-2-20503	8-28-91	Boring 205	3-5'	SB37
BP-SB-2-22903	↓	229	3-5'	SB38
BP-SB-2-21903	8-29-91	219	3-5	SB39
BP-SB-2-21903-D	↓	219	3-5 (Dup)	SB40
BP-SB-2-20403 & 20403-D Eng. Samples Only	↓	204	(Routine & Dup) 3-5	SB41 & SB41
BP-SB-2-21803	↓	218	3-5	SB42
BP-SB-2-20203	↓	202	3-5	SB43
BP-SB-2-21503	↓	215	3-5	SB44
BP-SB-2-21519	↓	215	19-21	SB45
BP-SB-02-RB	↓	Soil Boring	Rinsate Blank	SB46
BP-SB-2-22503	↓	Boring 225	3-5	SB47
BP-SB-2-22703	↓	227	3-5	SB48
BP-SB-01-PW	↓	Soil Boring	Potable Water	SB49
BP-SB-05-TB	8-26-91	Soil Boring	Trip Blank	SB50
BP-SB-3-30703	8-29-91	Boring 307	3-5	SB51
BP-SB-3-30719	↓	307	19-21	SB52
BP-SB-2-20603	↓	206	3-5	SB53

NUS CORPORATION

SAMPLE LOG SHEET TABLE OF CONTENTS

SAMPLE NUMBER	DATE SAMPLED	SAMPLE NAME	PAGE NO.
BP-SB-2-20603-D	8-29-91	Boring 206 3-5 (DUP)	SB 54
BP-SB-2-21703	↓	217 3-5'	SB 55
BP-SB-3-31403	8-30-91	314 3-5'	SB 56
BP-SB-3-32803-MS	↓	328 3-5 (MATRIX SPIKE/DUP)	SB 57
BP-SB-3-32819	↓	328 19-21	SB 58
BP-SB-2-20903	↓	209 3-5	SB 59
BP-SB-03-RB	↓	Soil Boring Rinsate BLANK	SB 60
BP-SB-02-PW	9-10-91	Monitoring WELL (Grout) ~~Soil Borings~~ TR Potable H_2O	SB 61

NUS CORPORATION
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SAMPLE LOG SHEET

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☐ Other _____

Page SB1 of SB61

Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-1-11903 Source Location Site 1 Boring 119

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3-5'			
Sample Date & Time: 8-26-91 1140			
Sampled By: D. YOST			
Signature(s): D. Yost			
Type of Sample			
☒ Low Concentration			
☐ High Concentration			
☒ Grab			
☐ Composite			
☐ Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
TAN-BROWN	SAND SOME GRAVEL DAMP-MOIST

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	2-10774-03	#1	3'-5' & 19'-21'
BNA	✓	05169016	↓	3'-5' Only
TAL METALS	✓	"		
CYANIDE	✓	"	↓	
STAINED SOIL:				
PCBs / PESTICIDES				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
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SAMPLE LOG SHEET

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Page SB2 of SB61

Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-119 19 Source Location Site 1 Bldg 119

	Composite Sample Data		
Sample Method: SPLIT SPOON	Sample	Time	Color / Description
Depth Sampled: 19-21'			
Sample Date & Time: 8-26-91 1200			
Sampled By: D. Yost			
Signature(s): D. Yost			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
TAN-LI BROWN	SAND AND GRAVEL MOIST

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	Z-1074-03	#1	3'-5' & 19'-21'
BNA				3'-5' Only
TAL METALS			TL	
CYANIDE				
STAINED SOIL:				
PCBs / PESTICIDES				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
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- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Page SB3 of SB61
Case # —
By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-SB-1-11303 Source Location Site 1 Boring 113

Sample Method: SPLIT SPOON	
Depth Sampled: 3' – 5'	
Sample Date & Time: 1145 8/26/91	
Sampled By: RP	
Signature(s): [signature]	

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Composite Sample Data

Sample	Time	Color / Description

N/A

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Yellow-Brown	FINE-COARSE SAND SOME GRAVEL

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	Z-1074-03	#1	3'-5' & 19'-21'
BNA	✓	05169106	/	3'-5' Only
TAL Metals	✓	↓	/	
CYANIDE	✓		/	
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Page SB4 of SB61

Case # —

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-1-11319 Source Location Site 1 Soil Boring 113

Sample Method: SPLIT SPOON	
Depth Sampled: 19'-21'	
Sample Date & Time: 12.10 8/26/91	
Sampled By: RP	
Signature(s): RS Patel	

Composite Sample Data

Sample	Time	Color / Description

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
LT. BROWN	COARSE SAND AND GRAVEL

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	B7336-40	#1	3'-5' & 19'-21'
BNA				3'-5' Only
TAL Metals				
CYANIDE				
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☐ Other _____

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Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-1-103 03 Source Location Site 1 Soil Boring 103

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3-5'			
Sample Date & Time: 8-26-91 1430			
Sampled By: D. YOST			
Signature(s): D. Yost			
Type of Sample: ☒ Low Concentration ☐ High Concentration ☒ Grab ☐ Composite ☐ Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BROWN	SAND AND GRAVELS DAMP

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	B-7336-40	#1	3'-5' & 19'-21'
BNA	✓	05169016	↓	3'-5' Only
TAL METALS	✓	"		
CYANIDE	✓	"	↓	
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
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SAMPLE LOG SHEET

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Page SB6 of SB61

Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-1-103-19 Source Location Site 1 Soil Boring 103

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 19-21'			
Sample Date & Time: 8-26-91 1458			
Sampled By: D. YOST			
Signature(s): D. Yost			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
REDDISH BROWN	SAND AND GRAVELS DAMP MOIST

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	B7336-40	#1	3'-5' & 19'-21'
BNA				3'-5' Only
TAL METALS				3'-5' Only
CYANIDE				3'-5' Only
STAINED SOIL:				
PCBs / PESTICIDES				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —
By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-SB-1-11103 Source Location Site #1 Soil Boring 111

Sample Method: SPLIT SPOON	
Depth Sampled: 3'-5'	
Sample Date & Time: 8/26/91 1555	
Sampled By: RP	
Signature(s): R S Patty	

Composite Sample Data

Sample	Time	Color / Description

NA

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BROWN	COARSE SANA

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	/	6-7336-40 (3)	#1	3'-5' & 19'-21'
BNA	/	051961	↓	3'-5' Only
TAL Metals	/	051961	↓	
CYANIDE	/	↓	↓	
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Page SB8 of SB61
Case # —
By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-SB-1-11119 Source Location Site 1 Boring 111

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 19'-21'			
Sample Date & Time: 8/26/91 1630			
Sampled By: RP			
Signature(s): [signature]		na.	

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Red-Brown	COARSE SAND AND GRAVEL

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	/	B7336-40 (3)	/	3'-5' & 19'-21'
BNA				3'-5' Only
TAL Metals				
CYANIDE				
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

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Case # —

By TK

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☒ Other TRIP BLANK

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-01-TB Source Location TRIP BLANK

Sample Method: Prep by ORTEK ~~SPLIT SPOON~~ TK	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: —			
Sample Date & Time: 8-22-91 —			
Sampled By: TK / ORTEK LAB			
Signature(s): [signature]			
Type of Sample			
☒ Low Concentration			
☐ High Concentration			
☒ Grab			
☐ Composite			
☐ Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	71	3'-5' & 19'-21'
BNA				3'-5' Only
TAL METALS				
CYANIDE				
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

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- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☒ Other Trip Blank

Case # –

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-02-TB Source Location Trip Blank

Sample Method: SEE NOTES ~~SPLIT SPOON~~ (TR)

Depth Sampled: —

Sample Date & Time: 8/22/91 —

Sampled By: TR / ORTEK

Signature(s): [signature]

Type of Sample
- ☒ Low Concentration
- ☐ High Concentration
- ☒ Grab
- ☐ Composite
- ☐ Grab - Composite

Composite Sample Data

Sample	Time	Color / Description
	N/A	

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	N/A	4	3'-5' & 19'-21'
BNA				3'-5' Only
TAL METALS				
CYANIDE				
STAINED SOIL:				
PCBs / Pesticides				LAB Prepared trip blank by ORTEK
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —
By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-SB-~~112~~ (TR) ~~3~~-1-11203 Source Location Site 1 Soil Boring 112

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3-5' + DAY			
Sample Date & Time: 8-26-91 1745			
Sampled By: D Yost			
Signature(s): D. Yost			

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BROWN	SAND WITH GRAVEL DAMP

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	4	3'-5' & 19'-21'
BNA	✓	0516 91 06	↓	3'-5' Only
TAL Metals	✓	"	↓	
CYANIDE	✓	"	↓	
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☐ Other _____

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Case # _____

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-H112 19 Source Location Site 1 Soil Boring 112

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 19-21'			
Sample Date & Time: 8-26-91 1815			
Sampled By: D Yost			
Signature(s): D Yost			
Type of Sample			
☒ Low Concentration			
☐ High Concentration			
☒ Grab			
☐ Composite			
☐ Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BROWN	SAND AND GRAVEL MOIST

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	4	3'-5' & 19'-21'
BNA				3'-5' Only
TAL Metals				3'-5' Only
CYANIDE				3'-5' Only
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-110419 Source Location Site 1 Soil Boring 104

	Composite Sample Data		
Sample Method: SPLIT SPOON	Sample	Time	Color / Description
Depth Sampled: 19-21'			
Sample Date & Time: 08-27-91 - 0750 Hrs			
Sampled By: R.Patencity			
Signature(s): D.Yost FOR R.Patencity		N/A	

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BROWN	COARSE SAND GRAVEL

Analysis	Taken ?	Bottle ID #	C of C #	Notes
ROUTINE :				
TCL Volatiles	✓	—	4	3'-5' & 19'-21'
BNA				3'-5' Only
TAL Metals				
CYANIDE				
STAINED SOIL :				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-1-10419-D Source Location Site 1 Soil Boring 104 Dup of BP-SB-1-10419

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 19-21'			
Sample Date & Time: 08-27-91 0750 Hrs			
Sampled By: R. Patercity		N/A	
Signature(s): D. Hunt for R. Patercity			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BROWN	COARSE SAND AND GRAVEL

Analysis	Taken ?	Bottle ID #	C of C #	Notes
ROUTINE :				
TCL Volatiles	✓	—	4	3'-5' & 19'-21'
BNA				3'-5' Only
TAL Metals				
CYANIDE				
STAINED SOIL :				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-1-115 03 Source Location SITE 1 SB 115

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3-5'			
Sample Date & Time: 8-27-91 0846			
Sampled By: D YOST			
Signature(s): D. Yost			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BROWN	SAND AND GRAVEL DAMP

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	4	3'-5' & 19'-21'
BNA	✓	05199106	↓	3'-5' Only
TAL METALS	✓	"		
CYANIDE	✓	"		
STAINED SOIL:				
PCBs / PESTICIDES				
ENGINEERING PARAMETERS				
pH	✓	—	6	
TOC	✓	—	↓	
BULK DENSITY	✓	—		
GRAIN SIZE	✓	—		
MOISTURE CONTENT	✓	—		

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-1-115-19 Source Location SITE 1 SB115

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 19-21'			
Sample Date & Time: 8-27-91 0900			
Sampled By: D. YOST			
Signature(s): D. Yost			
Type of Sample			

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
TANISH BROWN	SAND AND GRAVEL TR SILT

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	4	3'-5' & 19'-21'
BNA				3'-5' Only
TAL METALS				
CYANIDE				
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-3-33803 Source Location Site 3 Boring 338

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3-5'			
Sample Date & Time: 8-27-91 1020			
Sampled By: R Patencity			
Signature(s): D. Yost for R. Patencity		N/A	

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BROWN	COARSE SAND AND GRAVEL

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	4	3'-5' & 19'-21'
BNA	✓		↓	3'-5' only
TAL Metals	✓			
CYANIDE	✓			
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-3 33819 Source Location Site 3 Boring 33B

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 19-21'			
Sample Date & Time: 8-27-91			
Sampled By: R. Paterceity		N/A	
Signature(s): D. Yost FOR R. Paterceity			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Brown	COARSE-medium sand and gravel Moist

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	4	3'-5' & 19'-21'
BNA				3'-5' Only
TAL Metals				
CYANIDE				
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By FRED RAMSER

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB3334-0503 Source Location SITE #3 SB 334

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3' to 5'			
Sample Date & Time: 8-27-91 1215 HRS			
Sampled By: DAY			
Signature(s): [illegible]			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
REDDISH BROWN	SAND AND GRAVEL DAMP

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	4	3'-5' & 19'-21'
BNA	✓	05169106		3'-5' Only
TAL METALS	✓	"		
CYANIDE	✓	"		
STAINED SOIL:				
PCBs / PESTICIDES				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☐ Other _____

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Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB334-19 Source Location SITE 3 SB 334

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 19-21			
Sample Date & Time: 8-27-91 1235			
Sampled By: D. YOST			
Signature(s): D. Yost			
Type of Sample			
☒ Low Concentration			
☐ High Concentration			
☒ Grab			
☐ Composite			
☐ Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
LT BROWN	SAND AND GRAVEL MOIST

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	4	3'-5' & 19'-21'
BNA				3'-5' Only
TAL METALS				
CYANIDE				
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

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Case # —

By TR

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☒ Other Field Blank

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-01-FB Source Location FIELD BLANK

Sample Method: SEE NOTES ~~SPLIT SPOON~~ TR	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: —			
Sample Date & Time: 08/27/91 1515			
Sampled By: TR			
Signature(s): [signature]		N/A	
Type of Sample			
☒ Low Concentration			
☐ High Concentration			
☒ Grab			
☐ Composite			
☐ Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	N/A	5	3'-5' & 19'-21'
BNA	✓	↓	5	3'-5' Only
TAL METALS	✓		5	
CYANIDE	✓	↓	5	
STAINED SOIL:				
PCBs / Pesticides				Aqueous = w/steam distilled H2O poured directly into containers
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				LOT # 13091

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [x] Other Rinsate Blank

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Case # —
By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-SB-01-RB Source Location Rinsate Blank

Sample Method: SEE Notes ~~SPLIT SPOON~~ (TR)	
Depth Sampled: —	
Sample Date & Time: 08/27/91 1520	
Sampled By: TR	
Signature(s): [signature]	

Composite Sample Data

Sample	Time	Color / Description

N/A

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
~~[illegible]~~	~~Sandy~~ ~~GRAVEL~~ DY

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	N/A	D5	3'-5' & 19'-21'
BNA	✓	↓	↓	3'-5' Only
TAL Metals	✓	↓	↓	
CYANIDE	✓	↓	↓	
STAINED SOIL:				Aqueous w/ steam distilled H_2O poured over split spoon
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				Distilled H_2O Lot # 13091
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☐ Other _____

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Case # —

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-1-12103 @ 12103-D Source Location Site 1 Boring 121

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3'-5'			
Sample Date & Time: 8/27/91 1408			
Sampled By: RP		VOA	
Signature(s): [signature]			
Type of Sample			
■ Low Concentration			
☐ High Concentration			
■ Grab			
☐ Composite			
☐ Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BROWN	SANDY GRAVEL

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	B7336-40 (3)	5	3'-5' & 19'-21'
BNA	✓	051961	↓	3'-5' Only
TAL Metals	✓	051961		
CYANIDE	✓	"		
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☐ Other _____

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Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-1-12103-D Source Location DUP OF BP-SB-1-12103

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3'-5'			
Sample Date & Time: 8/27/91 1408			
Sampled By: R Poterucity			
Signature(s): D. Yost FOR R Poterucity		N/A	
Type of Sample			
☒ Low Concentration			
☐ High Concentration			
☒ Grab			
☐ Composite			
☐ Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BROWN	SANDY GRAVEL

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	B-7336-40	5	3'-5' & 19'-21'
BNA	✓	051961	↓	3'-5' Only
TAL METALS	✓	↓	↓	3'-5' Only
CYANIDE	✓	↓	↓	3'-5' Only
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Page SB24 of SB61
Case # —
By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-SB-1-12119 Source Location Site 1 Boring 121

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 19'-21'			
Sample Date & Time: 8/27/91 1415			
Sampled By: RP			
Signature(s): [signature]			

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BROWN	COARSE SAND AND GRAVEL

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	B-7336-40 (3)	5	3'-5' & 19'-21'
BNA				3'-5' Only
TAL Metals				
CYANIDE				
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☒ Other TRIP BLANK

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Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-03-TB Source Location TRIP BLANK

	Composite Sample Data		
Sample Method: LAB Prepared ~~SPLIT SPOON~~ TR	Sample	Time	Color / Description
Depth Sampled: —			
Sample Date & Time: 8-22-91 —			
Sampled By: TR & ORTEK			
Signature(s): [signature]		N/A	

Type of Sample

- ☒ Low Concentration
- ☐ High Concentration
- ☒ Grab
- ☐ Composite
- ☐ Grab - Composite

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	8	3'-5' & 19'-21'
BNA				3'-5' Only
TAL METALS				
CYANIDE				
STAINED SOIL:				
PCBs / Pesticides				ORTEK TRIP BLANK
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB3329-03 Source Location SITE 3 SB 329

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3-5'			
Sample Date & Time: 8-22-91 1659			
Sampled By: D. YOST			
Signature(s): D. Yost			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.) (FILL)
BLACK-D BROWN	CLAY WITH SOME SILT, GRAVEL, TR SAND

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓		8	3'-5' & 19'-21'
BNA	✓	G5169106	↓	3'-5' Only
TAL METALS	✓	"		
CYANIDE	✓	"		
STAINED SOIL:				
PCBs / Pesticides	✓	G5169106	8	
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Case # —

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-1-11D03-MS Source Location Site 1 Boring 110

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3'-5'			
Sample Date & Time: 8/27/91 1735.			
Sampled By: RP		na.	
Signature(s): [signature]			

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BROWN	MEDIUM-COARSE SAND AND GRAVEL

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	B-7336-40 (3)	8	3'-5' & 19'-21'
BNA	✓	051961	↓	3'-5' Only
TAL Metals	✓	051961	↓	3'-5' Only
CYANIDE	✓	"	↓	3'-5' Only
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH	✓	—	9	
TOC	✓	—	↓	
BULK DENSITY	✓	—	↓	
GRAIN SIZE	✓	—	↓	
MOISTURE CONTENT	✓	—	↓	

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-3-31803 Source Location Site 3 Boring 318

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3'-5'			
Sample Date & Time: 8/28/91 0820			
Sampled By: RP		NA	
Signature(s): [signature]			

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
LT BROWN	COARSE SAND AND GRAVEL

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	B-7336-40 (3)	8	3'-5' & 19'-21'
BNA	✓	051691	↓	3'-5' Only
TAL Metals	✓	05169106	↓	3'-5' Only
CYANIDE	✓	"	↓	3'-5' Only
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☐ Other _____

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Case # —

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-3-31819 Source Location Site 3 Boring 31B

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 19'-21'			
Sample Date & Time: 8/28/91 0840			
Sampled By: RP			
Signature(s): [signature]		na	

Type of Sample
- ■ Low Concentration
- ☐ High Concentration
- ■ Grab
- ☐ Composite
- ☐ Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Yellow-Brown	FINE-MEDIUM SAND AND GRAVEL

Analysis	Taken ?	Bottle ID #	C of C #	Notes
ROUTINE :				
TCL Volatiles	✓	~~73~~ B-7336-40(3)	8	3'-5' & 19'-21'
BNA				3'-5' Only
TAL METALS				
CYANIDE				
STAINED SOIL :				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By FRED W RAMSER

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-304-03 Source Location SITE 3 SB304

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3'-5'			
Sample Date & Time: 8-28-91 @ 25 HRS			
Sampled By: FRED W RAMSER			
Signature(s): Fred W Ramser			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
TAN TO BRN	SAND SOME GRAVEL TR/SILT MOIST

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	8	3'-5' & 19'-21'
BNA	✓	05 # 16180-284	↓	3'-5' Only
TAL METALS	✓	"		
CYANIDE	✓	"	↓	
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☐ Other _____

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Case # —

By FK

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-304-19 Source Location SB304 SITE #3

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 19' to 21'			
Sample Date & Time: 8-28-91 0900 HRS			
Sampled By: FRED W. RAMSER			
Signature(s): Fred W Ramser			
Type of Sample: ☑ Low Concentration ☐ High Concentration ☑ Grab ☐ Composite ☐ Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
TAN TO BRN	SAND AND GRAVEL MOIST

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	8	3'-5' & 19'-21'
BNA				3'-5' Only
TAL Metals				
CYANIDE				
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-123-03 Source Location SITE 1 SB 123

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3-5'			
Sample Date & Time: 8-28-91 1206			
Sampled By: F. RAMSER			
Signature(s): Fred W. Ramser			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
TAN-BROWN	SAND SOME SILT, GRAVEL TR CLAY DAMP

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	8	3'-5' & 19'-21'
BNA	✓	16180-284	↓	3'-5' Only
TAL METALS	✓	"		
CYANIDE	✓	"	↓	
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-12319 ~~19.5(TM)~~ Source Location SITE 1 SB 123

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 19.5-21.5			
Sample Date & Time: 8-28-91 1237			
Sampled By: F. RAMSER			
Signature(s): Fred W Ramser			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
TAN-BROWN	SAND AND GRAVEL MOIST

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	8	3'-5' & 19'-21'
BNA				3'-5' Only
TAL METALS				
CYANIDE				
STAINED SOIL:				
PCBs / PESTICIDES				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —
By RF

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-SB-3-31603 Source Location Site 3 Boring 316

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3'-5'			
Sample Date & Time: 8/28/91 1210			
Sampled By: RP			
Signature(s): [signature]		na	

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BLACK BROWN	(FILL) ORGANIC CLAY AND SAND w GRAVEL

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	D-7336-40 (3)	8	3'-5' & 19'-21'
BNA	✓	05196106	↓	3'-5' Only
TAL Metals	✓	05196106	↓	3'-5' Only
CYANIDE	✓	"	↓	3'-5' Only
STAINED SOIL:				
PCBs / Pesticides	✓	05196106	8	
ENGINEERING PARAMETERS				
pH	✓	2-32oz —	9	
TOC	✓	3-16oz —	↓	
BULK DENSITY	✓	—	↓	
GRAIN SIZE	✓	—	↓	
MOISTURE CONTENT	✓	—	↓	

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —
By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-SB-3-31619 Source Location Site 3 Boring 316

Sample Method: SPLIT SPOON	
Depth Sampled: 19'-21'	
Sample Date & Time: 8/28/91 1225	
Sampled By: RP	
Signature(s): [signature]	

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Composite Sample Data

Sample	Time	Color / Description
	na	

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BROWN	COARSE - MEDIUM SAND

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	B-7336-40 (3)	8	3'-5' & 19'-21'
BNA				3'-5' Only
TAL Metals				
CYANIDE				
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☒ Other TRIP BLANK

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Case # -

By TK

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-04-TB Source Location TRIP BLANK

Sample Method: SEE NOTES SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: —			
Sample Date & Time: 08-22-91 —			
Sampled By: TR / ORTEK			
Signature(s): [signature]		N/A	
Type of Sample			
☒ Low Concentration			
☐ High Concentration			
☒ Grab			
☐ Composite			
☐ Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	N/A	#12	3'-5' & 19'-21'
BNA				3'-5' Only
TAL METALS				
CYANIDE				
STAINED SOIL:				
PCBs / PESTICIDES				LAB Prepared BLANK by ORTEK
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☐ Other _____

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Case # –

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-2-20503 Source Location S.+E 2 BORING 205

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3'-5'			
Sample Date & Time: 8-28-91 1555			
Sampled By: F Ramsen			
Signature(s): Fred U Ramsen		N/A	

Type of Sample
- ☒ Low Concentration
- ☐ High Concentration
- ☒ Grab
- ☐ Composite
- ☐ Grab - Composite

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
LT BROWN	COARSE - FINE SAND with SOME GRAVEL TR SILT

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	12	3'-5' & 19'-21'
BNA	✓	—	↓	3'-5' Only
TAL METALS	✓	—		
CYANIDE	✓	—		
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —
By TK

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-SB-2-22903 Source Location Site 2 Boring 229

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3-5			
Sample Date & Time: 8-28-91 1820			
Sampled By: R. Paterbity		N/B	
Signature(s): D. Yost FOR R. Paterbity			
Type of Sample: [x] Low Concentration [ ] High Concentration [x] Grab [ ] Composite [ ] Grab - Composite			

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BROWN	COARSE SAND AND GRAVEL

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	12	3'-5' & 19'-21'
BNA	✓	—	↓	3'-5' Only
TAL Metals	✓	—	↓	
CYANIDE	✓	—	↓	
STAINED SOIL:				
PCBs / Pesticides	✓	—	12	
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-2-21903 & Duplicate Source Location Site 2 Boring 219

Sample Method: SPLIT SPOON	
Depth Sampled: 21903	
Sample Date & Time: 8/29/91 0730	
Sampled By: RP	
Signature(s): [signature]	

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Composite Sample Data

Sample	Time	Color / Description

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
DARK BROWN	SANDY CLAY / COARSE SAND ~~AND~~ DRY GRAVEL

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	B7336.40 (3)	12	3'-5' & 19'-21'
BNA	✓	05196106	↓	3'-5' Only
TAL Metals	✓	↓	↓	
CYANIDE	✓	↓	↓	
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # –

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-2-21903-D Source Location Site 2 Boring 219

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3-5'			
Sample Date & Time: 8-25-91 0730			
Sampled By: RP		N/A	
Signature(s): D.Y FOR R.P			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
DARK BROWN	SANDY CLAY / COARSE SAND WITH GRAVEL

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	B7336-40	12	3'-5' & 19'-21'
BNA	✓	05196106	↓	3'-5' Only
TAL METALS	✓	↓	↓	
CYANIDE	✓	↓	↓	
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By UAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-2-204-0308 DAY Source Location SITE 2 SB 204

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3-5'			
Sample Date & Time: 8-29-91 0810			
Sampled By: F. RAMSER			
Signature(s): Frank W Ramser			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
LT BROWN	SAND AND GRAVEL SOME SILT DAMP

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓			3'-5' & 19'-21'
BNA	✓	16180-284		3'-5' Only
TAL Metals	✓	"		
CYANIDE	✓	"		
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH	✓	—	"	
TOC	✓	—		
BULK DENSITY	✓	—		DUPLICATE SAMPLE TAKEN ON ENGINEERING PARAMETERS.
GRAIN SIZE	✓	—		
MOISTURE CONTENT	✓	—		

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☐ Other _____

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Case # –

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-2-20403-D Source Location Site 2 Boring 204

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3-5'			
Sample Date & Time: 8-29-91 0810			
Sampled By: FRAMSER			
Signature(s): Fred W Ramser		N/A	
Type of Sample			
☒ Low Concentration			
☐ High Concentration			
☒ Grab			
☐ Composite			
☐ Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
LT BROWN	SAND AND GRAVEL SOME SILT DAMP

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles				3'-5' & 19'-21'
BNA				
TAL METALS				3'-5' Only
CYANIDE				
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH	✓	—	//	
TOC	✓	—		
BULK DENSITY	✓	—		
GRAIN SIZE	✓	—		
MOISTURE CONTENT	✓	—		

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-2-21803 Source Location SHE 2 Boring 218

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3'-5'			
Sample Date & Time: 8/29/91 1020			
Sampled By: RP			
Signature(s): [signature]			

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
black-brown	COARSE SAND WITH GRAVEL

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	B-7336-40 (3)	12	3'-5' & 19'-21'
BNA	✓	0596106	?	3'-5' Only
TAL Metals	✓	↓	↓	
CYANIDE	✓			
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-2-202-03 Source Location SITE 2 SB203

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3-5'			
Sample Date & Time: 8-29-91 1150			
Sampled By: D. YOST			
Signature(s): D. YOST			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
LT. BROWN	SAND AND GRAVEL TR SILT DAMP

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	12	3'-5' & 19'-21'
BNA	✓	16180-284	↓	3'-5' Only
TAL Metals	✓	"		
CYANIDE	✓	"		
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-2-21503 Σ Engr Source Location Site 2 Boring 215

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3'-5'			
Sample Date & Time: 8/29/91 1250 ~~1308~~			
Sampled By: RP			
Signature(s): [signature]			

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BROWN	ORGANICS WITH SAND. SAND IS COARSE

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	B-7336-40(3)	12	3'-5' & 19'-21'
BNA	✓	05196106	↓	3'-5' Only
TAL Metals	✓	05196106	↓	
CYANIDE	✓	↓	↓	
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH	✓	—	11	
TOC	✓	—	↓	
BULK DENSITY	✓	—	↓	
GRAIN SIZE	✓	—	↓	
MOISTURE CONTENT	✓	—	↓	

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☐ Other _____

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Case # —

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-2-2519 Source Location Site 2 Boring 215

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 19-21 ft			
Sample Date & Time: 8/29/91 1308 ~~1250~~			
Sampled By: RP		na	
Signature(s) [signature]			
Type of Sample			
☒ Low Concentration			
☐ High Concentration			
☑ Grab			
☐ Composite			
☐ Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BROWN	MEDIUM-COARSE SAND WITH GRAVEL

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	D7336-40 (3)	12	3'-5' & 19'-21'
BNA				3'-5' Only
TAL Metals				
CYANIDE				
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

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- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☒ Other Rinsate Blank

Case # —

By TR

Project Site Name NWIRP Bethpage

Project Site Number 3281

NUS Source No. BP-SB-02-RB

Source Location Rinsate Blank

Sample Method: Ran Steam distilled H_2O over S.S. ~~Split Spoon~~ Trowel	Composite Sample Data
Depth Sampled: —	Sample / Time / Color / Description
Sample Date & Time: 08-24-91 1400	
Sampled By: TR	
Signature(s): [signature]	N/A
Type of Sample: ☒ Low Concentration ☐ High Concentration ☒ Grab ☐ Composite ☐ Grab - Composite	Sample Data: Color / Description: (Sand, Clay, Dry, Moist, Wet, etc.)

Analysis	Taken?	Bottle ID #	C of C #	Notes
Routine:				
TCL Volatiles	✓	—	12	3'-5' & 19'-21'
BNA	✓	N/A	↓	3'-5' Only
TAL Metals	✓	N/A		
Cyanide	✓	N/A		
Stained Soil:				
PCBs / Pesticides				Steam Distilled 1/2 c Lot # 13091
Engineering Parameters				
pH				
TOC				
Bulk Density				
Grain Size				
Moisture Content				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-2225-03 Source Location SITE 2 SB225

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3-5'			
Sample Date & Time: 8-29-91 1415			
Sampled By: F. RAMSER			
Signature(s): Fred W Ramser			

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
REDDISH BR.	SAND AND GRAVEL DAMP

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	12	3'-5' & 19'-21'
BNA	✓	16180-784	↓	3'-5' only
TAL METALS	✓	"		
CYANIDE	✓	"		
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☐ Other _____

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Case # _____

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-2-22703 Source Location Site 2 Boring 227

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3-5'			
Sample Date & Time: 8/29/91 1507			
Sampled By: RP			
Signature(s): [signature]			
Type of Sample: ☒ Low Concentration ☐ High Concentration ☒ Grab ☐ Composite ☐ Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Yellow-Brown	medium to COARSE SAND WITH GRAVEL

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	B7336-40 (3)	12	3'-5' & 19'-21'
BNA	✓	05196106	↓	3'-5' Only
TAL METALS	✓	05196106		
CYANIDE	✓	"		
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☒ Other Potable H_2O

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Case # —

By TR

Project Site Name NWIRP BETHPAGE

Project Site Number 3281

NUS Source No. BP-SB-01-PW1

Source Location Potable H_2O

Sample Method: direct from Hydrate ~~SPLIT SPOON~~

Depth Sampled: —

Sample Date & Time: 8/29/91 1537

Sampled By: TR

Signature(s): [signature]

Type of Sample
- ☒ Low Concentration
- ☐ High Concentration
- ☒ Grab
- ☐ Composite
- ☐ Grab - Composite

Composite Sample Data

Sample	Time	Color / Description

N/A

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	12	3'-5' & 19'-21'
BNA	✓	—	↓	3'-5' Only
TAL METALS	✓	—	↓	
CYANIDE	✓	—	↓	
STAINED SOIL:				
PCBs / PESTICIDES				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

Potable decon water used by drillers from public Hydrate (red & white), just outside NE Gate, adjacent to BLDG #24.

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [x] Other TRIP BLANK

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Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-05-TB Source Location TRIP BLANK

Sample Method: LAB prepared ~~SPLIT SPOON~~

Depth Sampled: —

Sample Date & Time: ~~8-26-91~~ TR 8-26-91

Sampled By: TR / ORTECK

Signature(s): [signature]

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Composite Sample Data		
Sample	Time	Color / Description
	N/A	

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	N/P	#15	3'-5' & 19'-21'
BNA				3'-5' Only
TAL METALS				
CYANIDE				
STAINED SOIL:				ORTECK prepared Trip Blank
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☐ Other _____

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Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-3307-03 Source Location SITE 3 SI307

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3-5			
Sample Date & Time: 8-29-91 1678			
Sampled By: F. RAMSER			
Signature(s): Fred W Ramser			
Type of Sample			
☒ Low Concentration			
☐ High Concentration			
☒ Grab			
☐ Composite			
☐ Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
LT BROWN	SAND AND GRAVEL DAMP

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	15	3'-5' & 19'-21'
BNA	✓	—		3'-5' only
TAL METALS	✓	—		
CYANIDE	✓	—		
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

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- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☐ Other _____

Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-307-19 Source Location SITE 3 SB 307

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 19-21'			
Sample Date & Time: 8-29-91 1700			
Sampled By: F. RAMSER			
Signature(s): Frank W Ramser			
Type of Sample: ☒ Low Concentration ☐ High Concentration ☒ Grab ☐ Composite ☐ Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
LT BROWN	SAND AND GRAVEL DAMP

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	15	3'-5' & 19'-21'
BNA				3'-5' Only
TAL METALS				
CYANIDE				
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☐ Other _____

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Case # —

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-2-20623 Duplicate Source Location Area 2 Boring 206

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3'-5'			
Sample Date & Time: 8/29/91 1813			
Sampled By: RP			
Signature(s): [signature]			
Type of Sample: ■ Low Concentration ☐ High Concentration ■ Grab ☐ Composite ☐ Grab - Composite	Sample Data		
	Color: GRAY-BROWN	Description: (Sand, Clay, Dry, Moist, Wet, etc.): COARSE SAND WITH GRAVEL	

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	D7336.40(3)	15	3'-5' & 19'-21'
BNA	✓	05196106		3'-5' Only
TAL METALS	✓	05196105		
CYANIDE	✓	↓	↓	
STAINED SOIL:				
PCBs / PESTICIDES				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☐ Other _____

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Case # —

By TK

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-2-20603-D Source Location Soil Boring 206 Site 2

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3'-5'			
Sample Date & Time: 8-29-91 1813			
Sampled By: R Patercity			
Signature(s): D Yost FOR R. Patercity			
Type of Sample: ☒ Low Concentration ☐ High Concentration ☒ Grab ☐ Composite ☐ Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
GRAY-BROWN	COARSE SAND WITH GRAVEL

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	B 7336-40	15	3'-5' & 19'-21'
BNA	✓	05196106		3'-5' Only
TAL METALS	✓			
CYANIDE	✓			
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Page SB55 of SB61

Case # —

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-2-21703 Source Location Site 2 Boring 217

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3'-5'			
Sample Date & Time: 8/29/91 1837			
Sampled By: RP		no	
Signature(s): [signature]			

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Brown	MEDIUM-COARSE SAND SOME ORGANICS

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	B7336-40(3)	15	3'-5' & 19'-21'
BNA	✓	05196106	↓	3'-5' Only
TAL Metals	✓	05196105	↓	
CYANIDE	✓	↓	↓	
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-3-31403 Source Location Site 3 Building 314

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3-5 ft			
Sample Date & Time: 8/30/91 0820			
Sampled By: RP			
Signature(s): [signature]			

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
RED WHITE-BROWN	COARSE SAND SOME GRAVEL

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	B-7336-40	15	3'-5' & 19'-21'
BNA	✓	05196106	↓	3'-5' Only
TAL METALS	✓	05196106	↓	3'-5' Only
CYANIDE	✓	↓	↓	3'-5' Only
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By FRED W. RAMSER

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB332803-MS Source Location SITE ~~328~~ 01 SB 328

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3' to 5'			
Sample Date & Time: 8-30-91 0820 HRS			
Sampled By: FRED W. RAMSER			
Signature(s): Fred W Ramser			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[x] Grab			
[ ] Composite			
[ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BLK	SILTY SAND CLAY TR GRAVEL (FILL) MOIST

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	15	3'-5' & 19'-21'
BNA	✓	—	↓	3'-5' Only
TAL METALS	✓	—	↓	
CYANIDE	✓	—	↓	
STAINED SOIL:				
PCBs / Pesticides	✓	—	15	
ENGINEERING PARAMETERS				
pH	✓	—	13	
TOC	✓	—	↓	
BULK DENSITY	✓	—	↓	
GRAIN SIZE	✓	—	↓	
MOISTURE CONTENT	✓	—	↓	

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☐ Other _____

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Case # —

By FK

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB3328-19 Source Location SITE 3, SB 328

	Composite Sample Data		
	Sample	Time	Color / Description
Sample Method: SPLIT SPOON			
Depth Sampled: 19' TO 21'			
Sample Date & Time: ~~8-2~~ 8-30-91 0830 HRS			
Sampled By: FRED W. RAMSER			
Signature(s): Fred W Ramser			
Type of Sample: ☑ Low Concentration ☐ High Concentration ☑ Grab ☐ Composite ☐ Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
LT-BROWN	FINE TO COARSE SAND AND GRAVELS, MOIST

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	15	3'-5' & 19'-21'
BNA				3'-5' Only
TAL METALS				
CYANIDE				
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

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Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-2709-03 Source Location SITE 2 SB 2709

Sample Method: SPLIT SPOON	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 3-5'			
Sample Date & Time: 8-30-91 1145			
Sampled By: F. RAMSER			
Signature(s): Fred M Ramser			
Type of Sample: [x] Low Concentration; [ ] High Concentration; [x] Grab; [ ] Composite; [ ] Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
REDDISH BROWN	SAND AND GRAVEL DAMP

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	/	—	15	3'-5' & 19'-21'
BNA	/	—	↓	3'-5' Only
TAL METALS	/	—	↓	3'-5' Only
CYANIDE	/	—	↓	3'-5' Only
STAINED SOIL:				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

SAMPLE LOG SHEET

NUS CORPORATION
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- ☐ Surface Soil
- ■ Subsurface Soil
- ☐ Sediment
- ☐ Lagoon / Pond
- ☒ Other Rinsate

Page SB60 of SB61

Case # —

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SB-03-RB Source Location Rinsate Blank

Sample Method: SEE NOTES ~~SPLIT SPOON~~	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: —			
Sample Date & Time: 8-30-91 1200			
Sampled By: TR			
Signature(s): [signature]		N/A	
Type of Sample			
☒ Low Concentration			
☐ High Concentration			
☒ Grab			
☐ Composite			
☐ Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				
TCL Volatiles	✓	—	15	3'-5' & 19'-21'
BNA	✓	N/A	↓	3'-5' Only
TAL Metals	✓	—		
CYANIDE	✓	—		
STAINED SOIL:				Steam distilled H_2O Lot# 13091 poured over S.S. trowel
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

Page SB61 of SB61

Case # —

By TR

- [ ] ~~Surface Soil~~ TR
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Lagoon / Pond
- [x] Other Potable H_2O

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. ~~BP-BS~~ BP-SB-02-PW Source Location Potable H_2O / DAYS INN

Sample Method: Potable WATER ~~SS TROWEL~~

Depth Sampled: ~~1-6"~~ TR

Sample Date & Time: 9/10/91 1130

Sampled By: TR

Signature(s): [signature]

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Composite Sample Data

Sample	Time	Color / Description

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)

Analysis	Taken?	Bottle ID #	C of C #	Notes
ROUTINE:				Outside Tap By Pool.
TCL VOLATILES	✓	B1162-1	H_2O	
TCL BNA	✓	—		
TAL METALS	✓	—		
CYANIDE	✓	—		
STAINED SOIL:				
TCL PCBs/Pesticides	✓	—		

B.2

MONITORING WELLS - TEMPORARY AND PERMANENT

TEMPORARY WELL SAMPLES 1 of 2

NUS CORPORATION

SAMPLE LOG SHEET
TABLE OF CONTENTS

SAMPLE NUMBER	DATE SAMPLED	SAMPLE NAME	PAGE NO.
BP-G-119	08-26-91	TEMP. WELL @ SITE-1	G 1
BP-G-113			G 2
BP-G-103			G 3
BP-G-111			G 4
BP-G-112			G 5
BP-G-114	08-27-91		G 6
BP-G-115			G 7
BP-G-338		SITE-3	G 8
BP-G-334			G 9
BP-G-121		SITE-1	G 10
BP-G-329		SITE-3	G 11
BP-G-110		SITE-1	G 12
BP-G-304	08-28-91	SITE-3	G 13
BP-G-318			G 14
BP-G-316			G 15
BP-G-123		SITE-1	G 16
BP-G-229		SITE-2	G 17
BP-G-209			G 18
BP-G-219	08-29-91		G 19
BP-G-204			G 20
BP-G-218			G 21
BP-G-202			G 22
BP-G-215			G 23
BP-G-225			G 24
BP-G-227			G 25
BP-G-307		SITE-3	G 26
BP-G-328	08-30-91		G 27

TEMPORARY WELL SAMPLES

NUS CORPORATION

SAMPLE LOG SHEET
TABLE OF CONTENTS

SAMPLE NUMBER	DATE SAMPLED	SAMPLE NAME	PAGE NO.
BP-G-314	08-30-91	TEMP WELL @ Site 3	G 28
BP-G-209	↓	↓ Site 2	G 29

NUS CORPORATION
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SAMPLE LOG SHEET

TEMPORARY
- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

Page G1 of G29

Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G-119 (14) Source Location Site - 1

	Purge Data				
Total Well Depth: 49.5'					
Well Casing Size & Depth: 2" @ 49.5'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 43.5'					
One Casing Volume: NA					
Start Purge (hrs.): 1315					
End Purge (hrs.): 1325					
Total Purge Time (min.): 10				N/A	
Total Amount Purged (gal.): 3.41					
Monitor Reading: —					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 43'					

Sample Date & Time:	Sample Data			
8-26-91 1330	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: TR	NA	NA	NA	BROWN High

Signature(s): Terry Ryan

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCL to pH ≤ 2 Cool ≤ 4°C	✓		#2	

NUS CORPORATION
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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page G2 of G24
Case # —
By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-~~1~~ 113 Source Location Site-1

Total Well Depth: 48'	**Purge Data**				
Well Casing Size & Depth: 2" Ø	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: NA					
One Casing Volume: NA	6.2 l				Brown/yellow
Start Purge (hrs.): 1415					highly turbid
End Purge (hrs.): 1430					
Total Purge Time (min.): 15					well bailed
Total Amount Purged (gal.): 6.2 l					dry - was allowed
Monitor Reading: No elevated HNU reading					to recharge to 44½ ft
Purge Method: Hand Bail					
Sample Method: SS BAILER					
Depth Sampled: 46 feet					
Sample Date & Time: 8-26-91 1458	**Sample Data**				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: RP	N/A				
Signature(s): [signature]	Type of Sample: ■ Low Concentration ☐ High Concentration			■ Grab ☐ Composite ☐ Grab - Composite	

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH < 2 Cool to 4°C	✓	Z-1074-03	#2	

NUS CORPORATION
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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page G3 of G29
Case # —
By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-~~1~~ 103 Source Location S.A - 1

Total Well Depth: 48'	Purge Data				
Well Casing Size & Depth: 2" at 48'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 43.0'					
One Casing Volume:					
Start Purge (hrs.): 1636					
End Purge (hrs.): 1654					
Total Purge Time (min.): 18					
Total Amount Purged (gal.): 3					
Monitor Reading:					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 44					
Sample Date & Time: 8-26-91 1654	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: FRED RAMSER	NA	NA	NA	BROWN TURBID	
Signature(s): Fred W Ramser	Type of Sample: ■ Low Concentration ☐ High Concentration			■ Grab ☐ Composite ☐ Grab - Composite	

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH < 2 Cool to 4°C	✓		# 3	

NUS CORPORATION
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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page G4 of G29
Case # —
By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G ~~-111~~ RP -111 Source Location Site 1

Total Well Depth:	
Well Casing Size & Depth: 2" PVC 52 ft	
Static Water Level: 45.5 ft	
One Casing Volume: 4.6 l	
Start Purge (hrs.): 1725	
End Purge (hrs.): 1745	
Total Purge Time (min.): 20	
Total Amount Purged (gal.): 18 l	
Monitor Reading: HNU 6ppm (back= 3ppm)	
Purge Method: Hand Bail	
Sample Method: Direct pour	
Depth Sampled: 45.5-52 ft	
Sample Date & Time: 8/26/91 1745	
Sampled By: RP	
Signature(s): R Patty	

Purge Data

Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
		no		

Sample Data

pH	S.C.	Temp. (°C)	Color & Turbidity
N/A			

Type of Sample:
■ Low Concentration
☐ High Concentration
■ Grab
☐ Composite
☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH<2 Cool to 4°C	✓		#3	

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SAMPLE LOG SHEET

TEMPORARY
- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

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Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G-1112 (TA) Source Location Site 1

	Purge Data				
Total Well Depth: 51'					
Well Casing Size & Depth: 2" @ 51'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 45.5'					
One Casing Volume:					
Start Purge (hrs.): 1937					
End Purge (hrs.): 1947					
Total Purge Time (min.): 10					
Total Amount Purged (gal.): 3 gal					
Monitor Reading:					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 46'					

Sample Date & Time:	Sample Data			
8-26-91 1947	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: FRED RAMSER	NA	NA	NA	BROWN TURBID
Signature(s): Fred W Ramser				

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCL pH<2 Cool 4±4°C	✓		A3	

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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page G6 of G29
Case # —
By TR/RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-114 Source Location Site 1

	Purge Data				
Total Well Depth: 51.5					
Well Casing Size & Depth: 2" @ 51.5	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 48'					
One Casing Volume: 0.6 GAL					
Start Purge (hrs.):					
End Purge (hrs.):					
Total Purge Time (min.):					
Total Amount Purged (gal.): BAILED DRY					
Monitor Reading:					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 49.5'					
Sample Date & Time: 8/27/91 0915	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: RP	NA	NA	NA	NA	
Signature(s): AY FOR R.P.					

Type of Sample: ■ Low Concentration ☐ High Concentration
■ Grab ☐ Composite ☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCL pH<2 COOL to 4°C	✓		#3	

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SAMPLE LOG SHEET

TEMPORARY
- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

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Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G-115 Source Location SITE 1, TEMPORARY WELL 115

	Purge Data				
Total Well Depth: 52'					
Well Casing Size & Depth: 2" @ 52'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 46'					
One Casing Volume:					
Start Purge (hrs.): 1033					
End Purge (hrs.): 1045					
Total Purge Time (min.): 12					
Total Amount Purged (gal.): 3.5					
Monitor Reading:					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 47'					

Sample Date & Time:	Sample Data			
8-27-91 1045	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: FRED RAMSER	NA	NA	NA	BROWN / TURBID

Signature(s): Fred W Ramser

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH<2 Cool to 4°C	✓	2-1074-03	#3	

NUS CORPORATION
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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

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Case # —
By TR/RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-338 Source Location Site 3

	Purge Data				
Total Well Depth: 58'					
Well Casing Size & Depth: 2" @ 58'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 54.5					
One Casing Volume: 2 GAL					
Start Purge (hrs.): NA					
End Purge (hrs.): NA					
Total Purge Time (min.): NA					
Total Amount Purged (gal.): NA					
Monitor Reading: NA					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 55'					
Sample Date & Time: 8/27/91 1245	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: RP	NA	NA	N.A	N.A.	
Signature(s): D.Y FOR R.P	Type of Sample: ■ Low Concentration ☐ High Concentration			■ Grab ☐ Composite ☐ Grab - Composite	

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCL to pH ≤ 2 Cool to 4°C	✓		#3	

NUS CORPORATION
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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page 69 of 624
Case # –
By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-334 Source Location SITE 3 & B 334

	Purge Data				
Total Well Depth: 57'					
Well Casing Size & Depth: 2" @ 57'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 50.5'					
One Casing Volume:					
Start Purge (hrs.): 1410					
End Purge (hrs.): 1430					
Total Purge Time (min.): 20					
Total Amount Purged (gal.): 3 GAL					
Monitor Reading:					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 51'					

Sample Date & Time:	Sample Data			
8-27-91 1430	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: FRED RAMSER	NA	NA	NA	BROWN TURBID

Signature(s): Fred W Ramser

Type of Sample: ■ Low Concentration ☐ High Concentration
■ Grab ☐ Composite ☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCL to pH<2 COOL to 4°C	✓	Z-1074-03	#3	

NUS CORPORATION
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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page G10 of G27
Case # —
By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G ~~-121~~ 121 (TN) Source Location Site 1

Total Well Depth:	
Well Casing Size & Depth: 2" PVC 54 ft	
Static Water Level: 46 ft	
One Casing Volume: 5.6 l	
Start Purge (hrs.): 1420	
End Purge (hrs.): 1453	
Total Purge Time (min.): 33	
Total Amount Purged (gal.): 18 l	
Monitor Reading:	
Purge Method: hand bail	
Sample Method: direct pour	
Depth Sampled: 46-54 ft	
Sample Date & Time: 8/27/91 1653	
Sampled By: RD	
Signature(s): [signature]	

Purge Data

Volume	pH	S.C.	Temp. (°C)	Color & Turbidity

na

Sample Data

pH	S.C.	Temp. (°C)	Color & Turbidity

Type of Sample:
■ Low Concentration
☐ High Concentration
■ Grab
☐ Composite
☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH < 2 Cool to 4°C	✓	Z 1074-03 (x)	07	

NUS CORPORATION
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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page 611 of 629
Case # —
By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-329 Source Location SITE 3 SB 329

	Purge Data				
Total Well Depth: 58'					
Well Casing Size & Depth: 2" @ 58'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 53'					
One Casing Volume:					
Start Purge (hrs.): 1912					
End Purge (hrs.): 1920					
Total Purge Time (min.): 8					
Total Amount Purged (gal.): 2.8					
Monitor Reading:					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 53					

Sample Date & Time:	Sample Data			
8-27-91 1920	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: FRED RAMSER	NA	NA	NA	REDDISH BROWN TURB. 0

Signature(s): Fred H Ramser

Type of Sample: ■ Low Concentration ☐ High Concentration
■ Grab ☐ Composite ☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCL to pH <2 Cool 4±4°C	✓	Z-1074-03	#7	

NUS CORPORATION
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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Case # —

By RT

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G-110 (TM) Source Location Site 1

	Purge Data				
Total Well Depth:					
Well Casing Size & Depth: 2" PVC. 53 ft	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 48 ft					
One Casing Volume: ~~G~~ 3.5 l					
Start Purge (hrs.): 1925					
End Purge (hrs.): 1955					
Total Purge Time (min.): 30 min		na			
Total Amount Purged (gal.): 7 l					
Monitor Reading: NO elevated reading					
Purge Method: Hand bail					
Sample Method: direct pour					
Depth Sampled: 48-53 ft					
Sample Date & Time: 8/27/91 1955	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: RT					
Signature(s): [signature]					

Type of Sample:
■ Low Concentration
☐ High Concentration

■ Grab
☐ Composite
☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCL to pH<2 cool to 4°C	✓	Z-1074-03(2)	#7	

NUS CORPORATION
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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page G13 of G29
Case # —
By FRED W RAMSER

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-304 Source Location SITE #3 SB 304

	Purge Data				
Total Well Depth: 52					
Well Casing Size & Depth: 2" @ 52'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 46.3'					
One Casing Volume:					
Start Purge (hrs.): 10:30					
End Purge (hrs.): 10:45					
Total Purge Time (min.): 15 MIN					
Total Amount Purged (gal.): 3.0					
Monitor Reading:					
Purge Method: S.S. BAILER					
Sample Method: S.S. BAILER					
Depth Sampled: ≈ 46.5' to 47.5'					

Sample Date & Time:	Sample Data			
8-28-91 1048	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: FWRAMSER	N/A	N/A	N/A	LIGHT BROWN TURBID.

Signature(s): Fred W Ramser

Type of Sample: ■ Low Concentration ☐ High Concentration
■ Grab ☐ Composite ☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCL to pH<2 Cool to 4°C	✓		#7	

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page G14 of G29
Case # —
By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-~~3~~ 318 Source Location S.15 3

Total Well Depth:	Purge Data				
Well Casing Size & Depth: 2" PVC 52.5'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 48'					
One Casing Volume: 3.15 l					
Start Purge (hrs.): 1025					
End Purge (hrs.): 1046					
Total Purge Time (min.): 21			NA.		
Total Amount Purged (gal.): 89.1 l					
Monitor Reading: No elevated HNU					
Purge Method: hand bail	✓				
Sample Method: direct pour					
Depth Sampled: 48-52.5'					
Sample Date & Time: 8/28/91 1046	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: RP					
Signature(s): [signature]	Type of Sample: ■ Low Concentration ☐ High Concentration		■ Grab ☐ Composite ☐ Grab - Composite		

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH < 2 Cool to 4°C	✓	Z-1004-03 (2)	#7	

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Case # —

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G-2 316 Source Location Site-3

Total Well Depth: 56.5'	
Well Casing Size & Depth: 2" PVC 56.5 ft	
Static Water Level: 51 Feet	
One Casing Volume: 3.85 l	
Start Purge (hrs.): 1330	
End Purge (hrs.): 1345	
Total Purge Time (min.): 15	
Total Amount Purged (gal.): 14 l	
Monitor Reading: No elevated HNU	
Purge Method: hand bail	
Sample Method: direct pour	
Depth Sampled: 51-56.5 ft.	
Sample Date & Time: 8/28/91 1345	
Sampled By: RP	
Signature(s): [signature]	

Purge Data

Volume	pH	S.C.	Temp. (°C)	Color & Turbidity

n.a.

Sample Data

pH	S.C.	Temp. (°C)	Color & Turbidity

Type of Sample:
■ Low Concentration
☐ High Concentration
■ Grab
☐ Composite
☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH < 2 Cool to 4°C	✓	Z-1074-03(2)	#7	

NUS CORPORATION
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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Case # —

By FRED RAMSER

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G-124 FUR 123 Source Location SITE #1 SB 124 FUR 123

	Purge Data				
Total Well Depth: 52'					
Well Casing Size & Depth: 2" @ 52'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 46.3'					
One Casing Volume:					
Start Purge (hrs.): 1406					
End Purge (hrs.): 1415					
Total Purge Time (min.): 9.0					
Total Amount Purged (gal.): 2.25					
Monitor Reading:					
Purge Method: S.S. BAILER					
Sample Method: S.S. BAILER					
Depth Sampled: ≈ 46.5 - 47.5					

Sample Date & Time:	Sample Data			
8-28-91 1415 HRS	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: FRED W RAMSER	N/A	N/A	N/A	BRN TURBID
Signature(s): Fred W Ramser				

Type of Sample: ■ Low Concentration ☐ High Concentration

■ Grab ☐ Composite ☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCL pH<2 COOL 4°C	✓		#7	

NUS CORPORATION
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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Case # —

By TR/RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G-229 Source Location _____

Total Well Depth: 57	Purge Data				
Well Casing Size & Depth: 2" @ 57	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 54.5					
One Casing Volume: 0.5 GAL					
Start Purge (hrs.): NA					
End Purge (hrs.): NA					
Total Purge Time (min.): NA					
Total Amount Purged (gal.): NA					
Monitor Reading: NA					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 56'					
Sample Date & Time: 8/25/91 ~~1645~~ 1745 ? D.Y.	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: RP	NA	NA	NA	NA	
Signature(s): D.Y. FOR R.P.	Type of Sample: ■ Low Concentration ☐ High Concentration		■ Grab ☐ Composite ☐ Grab - Composite		

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH < 2 Cool to 4°C	✓		#10	

NUS CORPORATION
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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

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Case # —

By FWR

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G-205 Source Location SITE 2 SB205

	Purge Data				
Total Well Depth: 56'					
Well Casing Size & Depth: 2" @ 56'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 51'					
One Casing Volume:					
Start Purge (hrs.): 17:52					
End Purge (hrs.): 18:05					
Total Purge Time (min.): 13					
Total Amount Purged (gal.): 3.1					
Monitor Reading:					
Purge Method: SS BAILER					
Sample Method: S.S. BAILER					
Depth Sampled: ≈ 52'-53'					

Sample Date & Time:	Sample Data			
8-28-91 18:05	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: FRED W. RAMSER	N/A	N/A	N/A	LIGHT BRN / TURBID
Signature(s): Fred W Ramser				

Type of Sample:
■ Low Concentration
☐ High Concentration

■ Grab
☐ Composite
☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH<2 Cool to 4°C	✓		#10	

NUS CORPORATION
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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page G19 of G29
Case # —
By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-~~2~~ 219 Source Location Site 2

	Purge Data				
Total Well Depth:	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Well Casing Size & Depth: 2" PVC 54 Ft.					
Static Water Level: 48.5 ft					
One Casing Volume: 3.85					
Start Purge (hrs.): 0845					
End Purge (hrs.): 0905					
Total Purge Time (min.): 20					
Total Amount Purged (gal.): 13 l					
Monitor Reading: No elevated HNU					
Purge Method: Hand bail					
Sample Method: direct pour					
Depth Sampled: 48.5-54 Ft.					

NG.

	Sample Data			
Sample Date & Time: 8/29/91 0908	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: RP				
Signature(s): [signature]				

Type of Sample: ■ Low Concentration ☐ High Concentration ■ Grab ☐ Composite ☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH < 2 Cool to 4°C	✓	2-1074-03(2)	#10	

NUS CORPORATION
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SAMPLE LOG

TEMPORARY
- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

Page G.20 of G.29

Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G-204 Source Location SITE 2 SB 204

	Purge Data				
Total Well Depth: 56'					
Well Casing Size & Depth: 2" @ 56'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 49.7'					
One Casing Volume:					
Start Purge (hrs.): 1003					
End Purge (hrs.): 1015					
Total Purge Time (min.): 12					
Total Amount Purged (gal.): 3.5 GAL					
Monitor Reading:					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 56'					

Sample Date & Time:	Sample Data			
6-29-91 1015	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: F. RAMSER	NA	NA	NA	LT TAN / TURBID

Signature(s): Fred W. Ramser

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCL pH ≤ 2 COOL ≤ 4°C	✓		#10	

NUS CORPORATION
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SAMPLE LOG SHEET

TEMPORARY
- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

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Case # —

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G-~~2~~-218 Source Location Site-2

	Purge Data				
Total Well Depth:					
Well Casing Size & Depth: 2" PVC 48'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 42.6'					
One Casing Volume: 3.85'					
Start Purge (hrs.): 1127					
End Purge (hrs.): 1200					
Total Purge Time (min.): 33					
Total Amount Purged (gal.): 14 l			12		
Monitor Reading: no elev HNU					
Purge Method: Nat Bail					
Sample Method: Direct pour					
Depth Sampled:					
Sample Date & Time: 8/29/91 1200	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: RP					
Signature(s): [signature]					

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH<2 Cool to 4°C	✓	Z1074-03 (2)	#10	

NUS CORPORATION
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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G-202 Source Location SITE 2 SB 202

	Purge Data				
Total Well Depth: 56'					
Well Casing Size & Depth: 2" @ 202	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 50.3'					
One Casing Volume:					
Start Purge (hrs.): 1310					
End Purge (hrs.): 1318					
Total Purge Time (min.): 8					
Total Amount Purged (gal.): 3'4					
Monitor Reading:					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 51'					

Sample Date & Time:	Sample Data			
8-29-91 1315	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: F. RAMSER	NA	NA	NA	LT BROWN / TURB.

Signature(s): Fred M Ramser

Type of Sample: ■ Low Concentration ☐ High Concentration

■ Grab ☐ Composite ☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH<2 Cool to 4°C	✓		#10	

TEMPORARY WELL SAMPLES 1 of 2

NUS CORPORATION

SAMPLE LOG SHEET
TABLE OF CONTENTS

SAMPLE NUMBER	DATE SAMPLED	SAMPLE NAME	PAGE NO.
BP-G-119	08-26-91	TEMP. WELL @ SITE-1	G 1
BP-G-113			G 2
BP-G-103			G 3
BP-G-111			G 4
BP-G-112			G 5
BP-G-114	08-27-91		G 6
BP-G-115			G 7
BP-G-338		SITE-3	G 8
BP-G-334			G 9
BP-G-121		SITE-1	G 10
BP-G-329		SITE-3	G 11
BP-G-110		SITE-1	G 12
BP-G-304	08-28-91	SITE-3	G 13
BP-G-318			G 14
BP-G-316			G 15
BP-G-123		SITE-1	G 16
BP-G-229		SITE-2	G 17
BP-G-209			G 18
BP-G-219	08-29-91		G 19
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BP-G-218			G 21
BP-G-202			G 22
BP-G-215			G 23
BP-G-225			G 24
BP-G-227			G 25
BP-G-307		SITE-3	G 26
BP-G-328	08-30-91		G 27

TEMPORARY WELL SAMPLES 2 OF 2

NUS CORPORATION

SAMPLE LOG SHEET
TABLE OF CONTENTS

SAMPLE NUMBER	DATE SAMPLED	SAMPLE NAME	PAGE NO.
BP-G-314	08-30-91	TEMP. WELL @ Site 3	G 28
BP-G-209	↓	↓ Site 2	G 29

NUS CORPORATION
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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page G1 of G2
Case # —
By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-119 Source Location Site - 1

Total Well Depth: 49.5'	
Well Casing Size & Depth: 2" @ 49.5'	
Static Water Level: 42.5'	
One Casing Volume: NA	
Start Purge (hrs.): 1315	
End Purge (hrs.): 1325	
Total Purge Time (min.): 10	
Total Amount Purged (gal.): 3 gal	
Monitor Reading: —	
Purge Method: SS BAILER	
Sample Method: SS BAILER	
Depth Sampled: 43'	
Sample Date & Time: 8-26-91 1330	
Sampled By: TR	
Signature(s): [signature]	

Purge Data

Volume	pH	S.C.	Temp. (°C)	Color & Turbidity

N/A

Sample Data

pH	S.C.	Temp. (°C)	Color & Turbidity
NA	NA	NA	BROWN High

Type of Sample:
■ Low Concentration
☐ High Concentration
■ Grab
☐ Composite
☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH < 2 Cool to 4°C	✓		#2	

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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page G2 of G24
Case # —
By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-~~1~~ 113 Source Location Site-1

Total Well Depth: 48'	Purge Data				
Well Casing Size & Depth: 2" Ø	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: NA					
One Casing Volume: NA	6.2 l				Brown/yellow
Start Purge (hrs.): 1415					highly turbid
End Purge (hrs.): 1430					
Total Purge Time (min.): 15					well bailed
Total Amount Purged (gal.): 6.2 l					dry - was allowed
Monitor Reading: No elevated HNU reading					to recharge to 44½ ft
Purge Method: Hand Bail					
Sample Method: SS BAILER					
Depth Sampled: 46 feet					
Sample Date & Time: 8-26-91 1458	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: RP	N/A				
Signature(s): [signature]	Type of Sample: ■ Low Concentration ☐ High Concentration			■ Grab ☐ Composite ☐ Grab - Composite	

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH < 2 Cool to 4°C	✓	Z-1074-03	#2	

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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page G3 of G25

Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G-~~1~~ 103 Source Location S.A - 1

Total Well Depth: 48'	Purge Data				
Well Casing Size & Depth: 2" at 48'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 43.0'					
One Casing Volume:					
Start Purge (hrs.): 1636					
End Purge (hrs.): 1654					
Total Purge Time (min.): 18					
Total Amount Purged (gal.): 3					
Monitor Reading:					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 44					
Sample Date & Time: 8-26-91 1654	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: FRED RAMSEY	NA	NA	NA	BROWN TURBID	
Signature(s): Fred W Ramsey	Type of Sample: ■ Low Concentration ☐ High Concentration			■ Grab ☐ Composite ☐ Grab - Composite	

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCL to pH ≤ 2 Cool to 4°C	✓		#3	

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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page G4 of G29
Case # —
By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G ~~-111~~ RP-111 Source Location Site 1

Total Well Depth:	
Well Casing Size & Depth: 2" PVC 52 ft	
Static Water Level: 45.5 ft	
One Casing Volume: 4.6 l	
Start Purge (hrs.): 1725	
End Purge (hrs.): 1745	
Total Purge Time (min.): 20	
Total Amount Purged (gal.): 18 l	
Monitor Reading: HNU 6 ppm (back= 3 ppm)	
Purge Method: Hand Bail	
Sample Method: Direct pour	
Depth Sampled: 45.5-52 ft	
Sample Date & Time: 8/26/91 1745	
Sampled By: RP	
Signature(s): RPatty	

Purge Data

Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
		no		

Sample Data

pH	S.C.	Temp. (°C)	Color & Turbidity
N/A			

Type of Sample:
■ Low Concentration
☐ High Concentration
■ Grab
☐ Composite
☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH < 2 Cool to 4°C	✓		#3	

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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page 65 of 529
Case # —
By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-112 (TA) Source Location Site 1

Total Well Depth: 51'	Purge Data				
Well Casing Size & Depth: 2" @ 51'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 45.5'					
One Casing Volume:					
Start Purge (hrs.): 1937					
End Purge (hrs.): 1947					
Total Purge Time (min.): 10					
Total Amount Purged (gal.): 3 gal					
Monitor Reading:					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 46'					
Sample Date & Time: 8-26-91 1947	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: FRED RAMSER	NA	NA	NA	BROWN TURBID	
Signature(s): Fred W Ramser	Type of Sample: ■ Low Concentration ☐ High Concentration ■ Grab ☐ Composite ☐ Grab - Composite				

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH ≤ 2 Cool to 4°C	✓		#3	

NUS CORPORATION
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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page G6 of G29
Case # —
By TK/RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-114 Source Location Site 1

Total Well Depth: 51.5	
Well Casing Size & Depth: 2" @ 51.5	
Static Water Level: 48'	
One Casing Volume: 0.6 GAL	
Start Purge (hrs.):	
End Purge (hrs.):	
Total Purge Time (min.):	
Total Amount Purged (gal.): BAILED DRY	
Monitor Reading:	
Purge Method: SS BAILER	
Sample Method: SS BAILER	
Depth Sampled: 49.5'	
Sample Date & Time: 8/27/91 0915	
Sampled By: RP	
Signature(s): NY FOR R.P.	

Purge Data

Volume	pH	S.C.	Temp. (°C)	Color & Turbidity

Sample Data

pH	S.C.	Temp. (°C)	Color & Turbidity
NA	NA	NA	NA

Type of Sample:
■ Low Concentration
☐ High Concentration
■ Grab
☐ Composite
☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH<2 Cool to 4°C	✓		#3	

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SAMPLE LOG SHEET

- [x] TEMPORARY Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

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Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G-115 Source Location SITE 1 TEMPORARY WELL 115

	Purge Data				
Total Well Depth: 52'					
Well Casing Size & Depth: 2" @ 52'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 46'					
One Casing Volume:					
Start Purge (hrs.): 1033					
End Purge (hrs.): 1045					
Total Purge Time (min.): 12					
Total Amount Purged (gal.): 3.5					
Monitor Reading:					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 47'					

Sample Date & Time:	Sample Data			
8-27-91 1045	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: FRED RAMSER	NA	NA	NA	BROWN / TURBID

Signature(s): Fred W Ramser

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCL to pH ≤ 2 Cool to 4°C	✓	Z-1074-03	#3	

NUS CORPORATION
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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

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Case # —
By TR/RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-338 Source Location Site 3

	Purge Data				
Total Well Depth: 58'					
Well Casing Size & Depth: 2" @ 58'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 54.5					
One Casing Volume: 2 GAL					
Start Purge (hrs.): NA					
End Purge (hrs.): NA					
Total Purge Time (min.): NA					
Total Amount Purged (gal.): NA					
Monitor Reading: NA					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 55'					

Sample Date & Time: 8/27/91 1245	Sample Data			
	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: RP	NA	NA	N.A	N.A.
Signature(s): D.Y FOR R.P				

Type of Sample: ■ Grab ☐ Composite ☐ Grab - Composite
■ Low Concentration
☐ High Concentration

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH<2 Cool to 4°C	✓		#3	

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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

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Case # —
By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-334 Source Location SITE 3 SB 334

	Purge Data				
Total Well Depth: 57'					
Well Casing Size & Depth: 2" @ 57'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 50.5'					
One Casing Volume:					
Start Purge (hrs.): 1410					
End Purge (hrs.): 1430					
Total Purge Time (min.): 20					
Total Amount Purged (gal.): 3 GAL					
Monitor Reading:					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 51'					

Sample Date & Time:	Sample Data			
8-27-91 1430	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: FRED RAMSLER	NA	NA	NA	BROWN TURBID
Signature(s): Fred W Ramsler				

Type of Sample: ■ Grab ☐ Composite ☐ Grab - Composite
■ Low Concentration ☐ High Concentration

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCL to pH<2 Cool 4°C	✓	Z-1074-03	#3	

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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page G10 of G29
Case # —
By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G ~~-121~~ (TR) 121 Source Location Site 1

Total Well Depth:	
Well Casing Size & Depth: 2" PVC 54 ft.	
Static Water Level: 46 ft.	
One Casing Volume: 5.6 l	
Start Purge (hrs.): 1420	
End Purge (hrs.): 1453	
Total Purge Time (min.): 33	
Total Amount Purged (gal.): 18 l	
Monitor Reading:	
Purge Method: hand bail	
Sample Method: direct pour	
Depth Sampled: 46-54 ft.	
Sample Date & Time: 8/27/91 1453	
Sampled By: RD	
Signature(s): [signature]	

Purge Data

Volume	pH	S.C.	Temp. (°C)	Color & Turbidity

na

Sample Data

pH	S.C.	Temp. (°C)	Color & Turbidity

Type of Sample:
■ Low Concentration
☐ High Concentration
■ Grab
☐ Composite
☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH < 2 Cool to 4°C	✓	Z 1074-03 (2)	Ø7	

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SAMPLE LOG SHEET

TEMPORARY
- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

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Case # —
By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-329 Source Location SITE 3 SB 329

	Purge Data				
Total Well Depth: 58'					
Well Casing Size & Depth: 2" @ 58'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 53'					
One Casing Volume:					
Start Purge (hrs.): 1912					
End Purge (hrs.): 1920					
Total Purge Time (min.): 8					
Total Amount Purged (gal.): 2.8					
Monitor Reading:					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 53					

Sample Date & Time:	Sample Data			
8-27-91 1920	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: FRED RAMSER	NA	NA	NA	REDDISH BROWN TURB. 0

Signature(s): Fred W Ramser

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCL pH ≤ 2 Cool 4°C	✓	Z-1074-03	#7	

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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page G14 of G29
Case # —
By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-~~3~~ 318 Source Location S.ts 3

Total Well Depth:	Purge Data				
Well Casing Size & Depth: 2" PVC 52.5'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 48'					
One Casing Volume: 3.15 l					
Start Purge (hrs.): 1025					
End Purge (hrs.): 1046			na.		
Total Purge Time (min.): 21					
Total Amount Purged (gal.): 89.1 l					
Monitor Reading: No elevated HNU					
Purge Method: hand bail	✓				
Sample Method: direct pour					
Depth Sampled: 48-52.5'					
Sample Date & Time: 8/28/91 1046	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: RP					
Signature(s): [signature]	Type of Sample: ■ Low Concentration ☐ High Concentration		■ Grab ☐ Composite ☐ Grab - Composite		

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH < 2 Cool to 4°C	✓	Z-1004-03 (2)	#7	

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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page G15 of G29
Case # —
By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-2-316 Source Location S/C - 3

	Purge Data				
Total Well Depth: 56.5'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Well Casing Size & Depth: 2" PVC 56.5 ft					
Static Water Level: 51 Feet					
One Casing Volume: 3.85 l					
Start Purge (hrs.): 1330					
End Purge (hrs.): 1345					
Total Purge Time (min.): 15					
Total Amount Purged (gal.): 14 l		n/a.			
Monitor Reading: No elevated HNU					
Purge Method: hand bail					
Sample Method: direct pour					
Depth Sampled: 51-56.5 ft.					

Sample Date & Time: 8/28/91 1345	Sample Data			
	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: RP				
Signature(s): [signature]				

Type of Sample: ■ Low Concentration ☐ High Concentration
■ Grab ☐ Composite ☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCL to pH ≤ 2 Cool 4°C	✓	Z1074-03(2)	#7	

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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Case # —

By FRED RAMSER

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G - ~~124~~ FUR 123 Source Location SITE #1 SB ~~124~~ FUR 123

	Purge Data				
Total Well Depth: 52'					
Well Casing Size & Depth: 2" @ 52'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 46.3'					
One Casing Volume:					
Start Purge (hrs.): 1406					
End Purge (hrs.): 1415					
Total Purge Time (min.): 9.0					
Total Amount Purged (gal.): 2.25					
Monitor Reading:					
Purge Method: S.S. BAILER					
Sample Method: S.S. BAILER					
Depth Sampled: ≈ 46.5 - 47.5					

Sample Date & Time:	Sample Data			
8-28-91 1415 HRS	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: FRED W RAMSER	N/A	N/A	N/A	BRN TURBID
Signature(s): Fred W Ramser				

Type of Sample: ■ Low Concentration ☐ High Concentration

■ Grab ☐ Composite ☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCL pH<2 Cool 0-4°C	✓		#7	

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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Case # —

By TR/RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G-229 Source Location _____

	Purge Data				
Total Well Depth: 57					
Well Casing Size & Depth: 2" @ 57	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 54.5					
One Casing Volume: 0.5 GAL					
Start Purge (hrs.): NA					
End Purge (hrs.): NA					
Total Purge Time (min.): NA					
Total Amount Purged (gal.): NA					
Monitor Reading: NA					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 56'					
Sample Date & Time: 8/22/91 ~~1645~~ 1745 D.Y.	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: RP	NA	NA	NA	NA	
Signature(s): D.Y. FOR R.P	Type of Sample: ■ Low Concentration ☐ High Concentration			■ Grab ☐ Composite ☐ Grab - Composite	

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH<2 Cool to 4°C	✓		#10	

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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

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Case # —
By FWR

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-205 Source Location SITE 2 SB205

	Purge Data				
Total Well Depth: 56'					
Well Casing Size & Depth: 2" @ 56'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 51'					
One Casing Volume:					
Start Purge (hrs.): 17:52					
End Purge (hrs.): 18:05					
Total Purge Time (min.): 13					
Total Amount Purged (gal.): 3.1					
Monitor Reading:					
Purge Method: SS BAILER					
Sample Method: S.S. BAILER					
Depth Sampled: ≈ 52'-53'					

Sample Date & Time:	Sample Data			
8-28-91 18:05	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: FRED W. RAMSER	N/A	N/A	N/A	LIGHT BRN / TURBID
Signature(s): Fred W Ramser				

Type of Sample: ■ Low Concentration ☐ High Concentration
■ Grab ☐ Composite ☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl 1:1 pH<2 Cool to 4°C	✓		#10	

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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page G19 of G29
Case # —
By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-~~2~~219 Source Location Site 2

Total Well Depth:	
Well Casing Size & Depth: 2" PVC 54 Ft.	
Static Water Level: 48.5 ft	
One Casing Volume: 3.85	
Start Purge (hrs.): 0845	
End Purge (hrs.): 0905	
Total Purge Time (min.): 20	
Total Amount Purged (gal.): 13 l	
Monitor Reading: No elevated HNU	
Purge Method: Hand bail	
Sample Method: direct pour	
Depth Sampled: 48.5-54 Ft.	
Sample Date & Time: 8/29/91 0908	
Sampled By: RP	
Signature(s): [signature]	

Purge Data

Volume	pH	S.C.	Temp. (°C)	Color & Turbidity

NG

Sample Data

pH	S.C.	Temp. (°C)	Color & Turbidity

Type of Sample:
■ Low Concentration
☐ High Concentration
■ Grab
☐ Composite
☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH < 2 Cool to 4°C	✓	2-1074-03(2)	#10	

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SAMPLE LOG

TEMPORARY
- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G-204 Source Location SITE 2 SB 204

	Purge Data				
Total Well Depth: 56'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Well Casing Size & Depth: 2" @ 56'					
Static Water Level: 49.7'					
One Casing Volume:					
Start Purge (hrs.): 1003					
End Purge (hrs.): 1015					
Total Purge Time (min.): 12					
Total Amount Purged (gal.): 3.5 GAL					
Monitor Reading:					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 56'					

Sample Date & Time:	Sample Data			
8-29-91 1015	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: F. RAMSER	NA	NA	NA	LT TAN / TURBID

Signature(s): Fred W Ramser

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH < 2 Cool @ 4°C	✓		#10	

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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

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Case # —
By RF

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-~~2~~-218 Source Location SITE-2

Total Well Depth:	Purge Data				
Well Casing Size & Depth: 2" PVC 48'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 42.6"					
One Casing Volume: 3.85'					
Start Purge (hrs.): 1127					
End Purge (hrs.): 1200					
Total Purge Time (min.): 33 min					
Total Amount Purged (gal.): 14 l			NA		
Monitor Reading: no elev HNU					
Purge Method: Hand Bail					
Sample Method: Direct pour					
Depth Sampled:					
Sample Date & Time: 8/29/91 1200	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: RD					
Signature(s): [signature]	Type of Sample: ■ Low Concentration ☐ High Concentration		■ Grab ☐ Composite ☐ Grab - Composite		

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH<2 Cool to 4°C	✓	Z1074-03 (2)	#10	

NUS CORPORATION
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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page G22 of G29
Case # —
By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-202 Source Location SITE 2 SB 202

	Purge Data				
Total Well Depth: 56'					
Well Casing Size & Depth: 2" @ 202	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 50.3'					
One Casing Volume:					
Start Purge (hrs.): 1310					
End Purge (hrs.): 1318					
Total Purge Time (min.): 8					
Total Amount Purged (gal.): 3¼					
Monitor Reading:					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 51'					

Sample Date & Time:	Sample Data			
8-29-91 1315	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: F. RAMSER	NA	NA	NA	LT BROWN / TURB.

Signature(s): Fred W Ramser

Type of Sample: ■ Low Concentration ☐ High Concentration
■ Grab ☐ Composite ☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH ≤ 2 Cool to 4°C	✓		#10	

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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page 423 of 429
Case # —
By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-~~2~~ 215 Source Location

	Purge Data				
Total Well Depth:					
Well Casing Size & Depth: 2" PVC 52.5'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 47'					
One Casing Volume: 3.85 gal					
Start Purge (hrs.): 1400					
End Purge (hrs.): 1425					
Total Purge Time (min.): 25					
Total Amount Purged (gal.): 14 l					
Monitor Reading: No chg. HNU					
Purge Method: Hand Bail					
Sample Method: Direct Pour					
Depth Sampled: 47-52.5 ft					
Sample Date & Time: 8/29/91 1425	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: RP					
Signature(s): [signature]					

Type of Sample: ■ Low Concentration ☐ High Concentration
■ Grab ☐ Composite ☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH<2 Cool to 4°C	✓	Z-107403(2)	A10	

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SAMPLE LOG SHEET

TEMPORARY
- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

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Case # —

By JAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G-225 Source Location SITE 2 SB 225

	Purge Data				
Total Well Depth: 53'					
Well Casing Size & Depth: 2" @ 53'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 48.0'					
One Casing Volume:					
Start Purge (hrs.): 1517					
End Purge (hrs.): 1524					
Total Purge Time (min.): 7					
Total Amount Purged (gal.): 2.5					
Monitor Reading:					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 50'					

Sample Date & Time:	Sample Data			
8-29-91 1524	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: F. RAMSER	NA	NA	NA	LT BROWN / TURBID

Signature(s): Fred W Ramser

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCL, pH<2 COOL 4°C	✓		#10	

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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Page G25 of G24
Case # —
By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281
NUS Source No. BP-G-~~2~~ 227 (TR) Source Location _____

Total Well Depth: 55'	
Well Casing Size & Depth: 2" PVC 55'	
Static Water Level: 48 ft	
One Casing Volume: 4.9 l	
Start Purge (hrs.): 1616	
End Purge (hrs.): 1640	
Total Purge Time (min.): 24 min	
Total Amount Purged (gal.): 16 l	
Monitor Reading: No elevated HNU	
Purge Method: Hol bail	
Sample Method: direct pour	
Depth Sampled: 48-55 ft	
Sample Date & Time: 8/29/91 ~~1740~~ 1640 RP's correction (TR)	
Sampled By: RP Time on C of C (TR)	
Signature(s): [signature]	

Purge Data

Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
	na			

Sample Data

pH	S.C.	Temp. (°C)	Color & Turbidity

Type of Sample:
■ Low Concentration
☐ High Concentration
■ Grab
☐ Composite
☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH < 2 Cool to 4°C	✓	Z 1074-03(2)	#10	

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SAMPLE LOG SHEET

TEMPORARY
- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G-307 Source Location SITE 3 SB 307

	Purge Data				
Total Well Depth: 51'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Well Casing Size & Depth: 2" @ 51'					
Static Water Level: 45.7'					
One Casing Volume:					
Start Purge (hrs.): 1807					
End Purge (hrs.): 1819					
Total Purge Time (min.): 12					
Total Amount Purged (gal.):					
Monitor Reading:					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 47'					

Sample Date & Time:	Sample Data			
8-29-91 1819	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: F. RAMSER	NA	NA	NA	REDDISH BROWN / TURBID

Signature(s): Fred W Ramser

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH<2 Cool to 4°C	✓		#14	

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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Case # —

By FREDWRAMSER

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G-328 Source Location SITE 3 SB328

	Purge Data				
Total Well Depth: 56.0'					
Well Casing Size & Depth: 2" @ 56.0'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 51'					
One Casing Volume:					
Start Purge (hrs.): 10.00					
End Purge (hrs.): 10.10					
Total Purge Time (min.): 10					
Total Amount Purged (gal.): 2.75					
Monitor Reading:					
Purge Method: S.S BAILER					
Sample Method: S.S BAILER					
Depth Sampled: ≈ 51' to 52'					
Sample Date & Time: 8-30-91 1010 HRS	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: FRED W. RAMSER	N/A	N/A	N/A	REDDISH BRN - TURBID	
Signature(s): Fred W Ramser	Type of Sample: ■ Low Concentration ☐ High Concentration			■ Grab ☐ Composite ☐ Grab - Composite	

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCL to pH ≤ 2 Cool ≤ 4°C	✓		A14	

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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Case # —

By KP

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G-~~3~~ 314 Source Location Site 3

Total Well Depth: 51 Feet	
Well Casing Size & Depth: 2" PVC 51 Feet	
Static Water Level: 46' 2"	
One Casing Volume: 3.5 l	
Start Purge (hrs.): 1005	
End Purge (hrs.): ~~100~~ 1040	
Total Purge Time (min.): 35	
Total Amount Purged (gal.): 13 l	
Monitor Reading: No elev HNU	
Purge Method: Hand Bail	
Sample Method: Direct pour	
Depth Sampled: 46-51 ft	
Sample Date & Time: 8/30/91 1040	
Sampled By: RP	
Signature(s): [signature]	

Purge Data

Volume	pH	S.C.	Temp. (°C)	Color & Turbidity

NA.

Sample Data

pH	S.C.	Temp. (°C)	Color & Turbidity

Type of Sample:
■ Low Concentration
☐ High Concentration
■ Grab
☐ Composite
☐ Grab - Composite

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH < 2 Cool to 4°C	✓	Z1074-03(2)	#14	

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SAMPLE LOG SHEET

TEMPORARY
■ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Case # —

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G-209 Source Location SITE 2 SB209

Total Well Depth: 0Y ~~34'~~ 32	Purge Data				
Well Casing Size & Depth: 2" @ 32	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 23'					
One Casing Volume:					
Start Purge (hrs.): 1242					
End Purge (hrs.): 1257					
Total Purge Time (min.): 15					
Total Amount Purged (gal.): 4 1/2					
Monitor Reading:					
Purge Method: SS BAILER					
Sample Method: SS BAILER					
Depth Sampled: 23'					
Sample Date & Time: 8-30-91 1257	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: F. RAMSER	NA	NA	NA	LT BROWN TURBID	
Signature(s): Fred W Ramser	Type of Sample: ■ Low Concentration ☐ High Concentration			■ Grab ☐ Composite ☐ Grab - Composite	

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
TCL VOLATILES	HCl to pH < 2 Cool to 4°C	✓		#14	

PERMANENT WELL SAMPLES

NUS CORPORATION

SAMPLE LOG SHEET
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NUS CORPORATION

SAMPLE LOG SHEET

- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

Case # _____

By RP

Project Site Name NWIRP Bethpage Project Site Number 3281

NUS Source No. BP-G-MW-30S, S-D Source Location MW-30-S

Total Well Depth: 57.15 ft	Purge Data				
Well Casing Size & Depth: 4" 57.15 ft.	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 50.92 ft					
One Casing Volume: 4.07 gal					
Start Purge (hrs.): 11:35					
End Purge (hrs.): 12:25					
Total Purge Time (min.): 50					
Total Amount Purged (gal.): 15					
Monitor Reading: no elev HNU					
Purge Method: Hand bail					
Sample Method: Hand bail					
Depth Sampled: 57 ft					
Sample Date & Time: 12-4-91 13:00	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: Dave Yost	8.46	130 umhos/cm	18.1	>200 NTU	

Signature(s): RPatts for DY

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [ ] Grab
- [ ] Composite
- [ ] Grab - Composite

Observations / Notes:
Purge clear at first, then tan clayish turbidity
well stick-up 1.6 ft.
PVC
↓ all measurements to surface

Analysis:	Preservative		Organic	Inorganic
VOA	HCl	Traffic Report #		
BNA	—	Tag #		
Total metals	HNO_3			
Diss. metals	HNO_3	AB #		
Cyanide	NaOH	Date Shipped		
Cr^{+6}	—	Time Shipped		
		Lab		
		Volume		

NUS CORPORATION

SAMPLE LOG SHEET

☒ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Case # _____

By RP

Project Site Name NWIRP Bethpage Project Site Number 3281
NUS Source No. BP-6-HN-30I Source Location HN 30 I

Total Well Depth:* 119.34 ft	
Well Casing Size & Depth: 4" 119.34 ft	
Static Water Level: 52.10 ft	
One Casing Volume: 44 gal	
Start Purge (hrs.): 11:00	
End Purge (hrs.): 13:30	
Total Purge Time (min.): 150	
Total Amount Purged (gal.): 140	
Monitor Reading: No elev HNU	
Purge Method: Subm. Pump	
Sample Method: Hole Bail	
Depth Sampled:	
Sample Date & Time: 12-4-91 13:30	
Sampled By: RP	
Signature(s): RPatorius	

Purge Data

Volume	pH	S.C.	Temp. (°C)	Color & Turbidity

Sample Data

pH	S.C.	Temp. (°C)	Color & Turbidity
9.7	170 umhos/cm	17.5	>200 NTU

Type of Sample
☒ Low Concentration
☐ High Concentration
☐ Grab
☐ Composite
☐ Grab - Composite

Observations / Notes:
Clean purge at beginning - to tan clayish.
Flush mount well - TOC is 0.34 ft below surface. PVC

*All measurements from surface

Analysis:	Preservative
VOA	HCl
BNA	—
Total Metals	HNO_3
Filt Metals	HNO_3
Cyanide	NaOH
Cr^{+6}	—

	Organic	Inorganic
Traffic Report #		
Tag #		
AB #		
Date Shipped		
Time Shipped		
Lab		
Volume		

NUS CORPORATION

SAMPLE LOG SHEET

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- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

Case # _____

By RP

Project Site Name NWIRP Bethpage Project Site Number 3281

NUS Source No. BR6-HN-25S, S-MS, S-MSD Source Location HN-25-S.

Total Well Depth:* 58.85 ft.	
Well Casing Size & Depth: 4" 58.85 ft	
Static Water Level: 52.25	
One Casing Volume: 4.32 gal	
Start Purge (hrs.): 1320	
End Purge (hrs.): 1355	
Total Purge Time (min.): 35	
Total Amount Purged (gal.): 15	
Monitor Reading: NO elev HNU	
Purge Method: Hand bail	
Sample Method: Hand bail	
Depth Sampled: 58 ft.	
Sample Date & Time: 12-5-91 1355	
Sampled By: D. Yost	
Signature(s): [illegible] DY	

Purge Data

Volume	pH	S.C.	Temp. (°C)	Color & Turbidity

Sample Data

pH	S.C.	Temp. (°C)	Color & Turbidity
5.62	405 umhos/cm	14.9	>200 NTU

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [ ] Grab
- [ ] Composite
- [ ] Grab - Composite

Observations / Notes:

purge water has yellow-red turbidity (very turbid)

Flush mount well TOC is 0.35 ft below surface PVC.

* All measurements from surface

Analysis:	Preservative
VOA	HCl
BNA	—
tot. metals	HNO_3
diss metals	HNO_3
CN	NaOH
Cr^{+6}	—

	Organic	Inorganic
Traffic Report #		
Tag #		
AB #		
Date Shipped		
Time Shipped		
Lab		
Volume		

NUS CORPORATION

SAMPLE LOG SHEET

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- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

Case # _____

By RP

Project Site Name NWIRP Bethpage Project Site Number _____

NUS Source No. BP-6-HN-25I, I-D Source Location HN-25I

Total Well Depth*: 128.8 ft.	Purge Data				
Well Casing Size & Depth: 4" 128.8 ft	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 52.1 ft					
One Casing Volume: 50.2 gal					
Start Purge (hrs.): 12:05					
End Purge (hrs.): 12:17					
Total Purge Time (min.): 12					
Total Amount Purged (gal.): 165					
Monitor Reading: no elev HNU					
Purge Method: Subm pump					
Sample Method: Hand bail					
Depth Sampled: 128 ft.					
Sample Date & Time: 12-5-91 12:25	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: RP	5.8	100 umhos/cm	16.5	7.1 NTU	

Signature(s): RPatons

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [ ] Grab
- [ ] Composite
- [ ] Grab - Composite

Observations / Notes:

purge water clear

Flush mount well TOC is 0.3 ft below surface PVC

* All measurements from surface

Analysis:	Preservative
VOA	HCl
DWA	—
tot metals	HNO_3
diss metals	HNO_3
CN	NaOH
Cr+6	—

	Organic	Inorganic
Traffic Report #		
Tag #		
AB #		
Date Shipped		
Time Shipped		
Lab		
Volume		

NUS CORPORATION

SAMPLE LOG SHEET

- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

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Case # _____

By RP

Project Site Name NWIRP Bethpage Project Site Number 3281

NUS Source No. DA6-HN-26-S Source Location HN-26-S

Total Well Depth:* 53.05 Ft.	Purge Data				
Well Casing Size & Depth: 4" 53.05 Ft.	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 49.15 Ft.					
One Casing Volume: 2.55					
Start Purge (hrs.): 0820					
End Purge (hrs.): 0845					
Total Purge Time (min.): 25					
Total Amount Purged (gal.): 10					
Monitor Reading: No elev HNU					
Purge Method: Hand bail					
Sample Method: Hand bail					
Depth Sampled: 53 Ft.					
Sample Date & Time: 12-6-92 0900	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: Dave Yost.	8.32	115 umhos/cm	14.0	>200 NTU	

Signature(s): RPatoray for DY

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [ ] Grab
- [ ] Composite
- [ ] Grab - Composite

Observations / Notes:

purge turbid.

flush mount well TOC 0.35 ft below surface PVC.

* All measurements to surface

Analysis:	Preservative		Organic	Inorganic
VOA	HCl	Traffic Report #		
BNA	—	Tag #		
tot metals	HNO_3			
diss. metals	HNO_3	AB #		
CN	NaOH	Date Shipped		
Cr^{+6}	—	Time Shipped		
		Lab		
		Volume		

NUS CORPORATION

SAMPLE LOG SHEET

- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

Case # _____

By RP

Project Site Name NW1RP Bethpage Project Site Number 3281

NUS Source No. BP6-HN-26-I Source Location HN-26-I

Total Well Depth: 124.18 Ft	Purge Data				
Well Casing Size & Depth: 4" 124.18 ft.	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 50.10 ft.					
One Casing Volume: 48.45 gal					
Start Purge (hrs.): 15:10					
End Purge (hrs.): 15:5					
Total Purge Time (min.): 45					
Total Amount Purged (gal.): 165					
Monitor Reading: No elev HNU					
Purge Method: Sub. pump					
Sample Method: Hand bail					
Depth Sampled: 124 ft.					
Sample Date & Time: 12-6-91 0800	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: D. Yost	9.65	180 umhos/cm	11.4	>200 NTU	

Signature(s): RPatts for DY

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [ ] Grab
- [ ] Composite
- [ ] Grab - Composite

Observations / Notes:
purge clear for 45 gal, then med. tan turbidity.
Flush mount well TOC is 0.54 ft below surface PVC.
purged 12-5-92
* All measurements from surface.

Analysis:	Preservative		Organic	Inorganic
VOA	HCl	Traffic Report #		
BNA	—	Tag #		
tot metals	HNO_3			
diss metals	HNO_3	AB #		
CN	NaOH	Date Shipped		
Cr+6	—	Time Shipped		
		Lab		
		Volume		

NUS CORPORATION

SAMPLE LOG SHEET

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- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

Case # _____

By RP

Project Site Name NWIRP Bethpage Project Site Number 3281

NUS Source No. BP-6-HN-27-S Source Location HN-27-S

Total Well Depth:* 53.3 ft.	
Well Casing Size & Depth: 4" 53.3 ft.	
Static Water Level: 49.1 ft.	
One Casing Volume: 2.75 gal	
Start Purge (hrs.): 1110	
End Purge (hrs.): 1150	
Total Purge Time (min.): 40	
Total Amount Purged (gal.): 10	
Monitor Reading: No elev HNU	
Purge Method: Hand bail	
Sample Method: Hand bail	
Depth Sampled: 53 ft.	
Sample Date & Time: 12-6-91 12:20	
Sampled By: RP	
Signature(s): RPatoris	

Purge Data

Volume	pH	S.C.	Temp. (°C)	Color & Turbidity

Sample Data

pH	S.C.	Temp. (°C)	Color & Turbidity
6.5	115 umhos/cm	15.3	>200 NTU

Observations / Notes:

turbid during purging

well stick-up 2.5 ft. PVC

+ All measurements to surface

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [ ] Grab
- [ ] Composite
- [ ] Grab - Composite

Analysis:	Preservative
VOA	HCl
BNA	—
tot metals	HNO_3
diss metals	HNO_3
CN	NaOH
Cr+6	—

	Organic	Inorganic
Traffic Report #		
Tag #		
AB #		
Date Shipped		
Time Shipped		
Lab		
Volume		

NUS CORPORATION

SAMPLE LOG SHEET

- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

Case # _____

By RP

Project Site Name NWIRP Bethpage Project Site Number 3281

NUS Source No. BP-G-HN-27-I Source Location HN-27-I

Total Well Depth:* 109.78 ft	Purge Data				
Well Casing Size & Depth: 4" 109.78 ft.	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 49.85 ft.					
One Casing Volume: 39.2 gal					
Start Purge (hrs.): 10:07					
End Purge (hrs.): 11:20.					
Total Purge Time (min.): 73					
Total Amount Purged (gal.): 120					
Monitor Reading: 10 elev HNU					
Purge Method: Sub. pump					
Sample Method: Hand bail					
Depth Sampled: 109 ft					
Sample Date & Time: 12-6-91 11:20	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: D Yost	9.0	140 umhos/cm	16.0	52 NTU	

Signature(s): RPetts for DY

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [ ] Grab
- [ ] Composite
- [ ] Grab - Composite

Observations / Notes:
well ran dry several times during purging. Water clear
well stick-up 2.8 ft. PVC.

+ All measurements to surface

Analysis:	Preservative		Organic	Inorganic
VOA	HCl	Traffic Report #		
DNA	—	Tag #		
tot metals	HNO_3			
diss metals	HNO_3	AB #		
CN	NaOH	Date Shipped		
Cr+5	—	Time Shipped		
		Lab		
		Volume		

NUS CORPORATION

SAMPLE LOG SHEET

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Case # _____

By RP

- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

Project Site Name NWIRP Bethpage Project Site Number 3281

NUS Source No. BP-G-HN-24-5 Source Location HN-24-5

Total Well Depth:*	58.55 ft.
Well Casing Size & Depth:	4" 58.55 ft.
Static Water Level:	50.2 ft.
One Casing Volume:	5.46 gal
Start Purge (hrs.):	1045
End Purge (hrs.):	1210.
Total Purge Time (min.):	85
Total Amount Purged (gal.):	20
Monitor Reading:	No elev HNU
Purge Method:	Hand bail.
Sample Method:	Hand bail
Depth Sampled:	58 ft.
Sample Date & Time:	12-9-91 1220
Sampled By:	E. HUSS
Signature(s):	RPatis for EH

Purge Data

Volume	pH	S.C.	Temp. (°C)	Color & Turbidity

Sample Data

pH	S.C.	Temp. (°C)	Color & Turbidity
6.33	120 umhos/cm	15.6	154 NTU

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [ ] Grab
- [ ] Composite
- [ ] Grab - Composite

Observations / Notes:

well fairly turbid throughout purging.

Flush mount well TOC 0.3 ft below surface PVC

* All measurements to surface

Analysis:	Preservative
VOA	HCl
BNA	—
tot. metals	HNO_3
diss metals	HNO_3
CN	NaOH
Cr^{+6}	—

	Organic	Inorganic
Traffic Report #		
Tag #		
AB #		
Date Shipped		
Time Shipped		
Lab		
Volume		

NUS CORPORATION

SAMPLE LOG SHEET

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- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

Case # _____

By RP

Project Site Name NWIRP Bethpage Project Site Number 3281

NUS Source No. BP-6-HN-24I Source Location HN-24-I

Total Well Depth:* 157.41 ft	
Well Casing Size & Depth: 4" 157.41 ft.	
Static Water Level: 50.10 ft.	
One Casing Volume: 70.2 gal	
Start Purge (hrs.): 1030	
End Purge (hrs.): 1200	
Total Purge Time (min.): 90	
Total Amount Purged (gal.): 245	
Monitor Reading: HNU 30 ppm backgr = 0.2	
Purge Method: Sub pump.	
Sample Method: Hand bail	
Depth Sampled: 157 ft.	
Sample Date & Time: 12-9-91 12:00	
Sampled By: E. Huss	
Signature(s): RPatts for EH	

Purge Data

Volume	pH	S.C.	Temp. (°C)	Color & Turbidity

Sample Data

pH	S.C.	Temp. (°C)	Color & Turbidity
10.98	400 umhos/cm	16.7	90.7 NTU

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [ ] Grab
- [ ] Composite
- [ ] Grab - Composite

Observations / Notes:

purged clear for 40 gal, then turbid clear by end of purging.
well ran dry several times
Flush mount well TOC 0.59 ft below surface. PVC.

*All measurements to surface

Analysis:	Preservative
VOA	HCl
DNA	—
tot metals	HNO_3
diss metals	HNO_3
CN	NaOH
Cr^{+6}	—

	Organic	Inorganic
Traffic Report #		
Tag #		
AB #		
Date Shipped		
Time Shipped		
Lab		
Volume		

NUS CORPORATION

SAMPLE LOG SHEET

- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

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Case # _____

By RP

Project Site Name NWI RP Bethpage Project Site Number 3281

NUS Source No. BP-G-HN-28-S Source Location HN-28-S.

Total Well Depth:*	53.65 ft
Well Casing Size & Depth:	4" 53.65 ft
Static Water Level:	49.75 ft
One Casing Volume:	2.55 gal
Start Purge (hrs.):	1430
End Purge (hrs.):	1500
Total Purge Time (min.):	30
Total Amount Purged (gal.):	10
Monitor Reading:	HNU 1.8 ppm back 0.2 ppm
Purge Method:	Hand bail
Sample Method:	Hand bail
Depth Sampled:	53 ft
Sample Date & Time:	12-10-91 0840
Sampled By:	RP
Signature(s):	[signature]

Purge Data

Volume	pH	S.C.	Temp. (°C)	Color & Turbidity

Sample Data

pH	S.C.	Temp. (°C)	Color & Turbidity
6.99	645 umhos/cm	16.0	>200 NTU

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [ ] Grab
- [ ] Composite
- [ ] Grab - Composite

Observations / Notes:

turbidity during purging

Flush mount well TOC 0.65 ft below surface. PVC.

Well purged 12-9-92

* All measurements to surface.

Analysis:	Preservative
VOA	HCl
BNA	—
tot metals	HNO_3
diss metals	HNO_3
CN	NaOH
Cr+6	—

	Organic	Inorganic
Traffic Report #		
Tag #		
AB #		
Date Shipped		
Time Shipped		
Lab		
Volume		

NUS CORPORATION

SAMPLE LOG SHEET

- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

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Case # _____

By RP

Project Site Name DWIRP Bethpage. Project Site Number 3281

NUS Source No. BP-6-HN-28-I Source Location HN-28-I

	Purge Data				
Total Well Depth: 141.45 ft	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Well Casing Size & Depth: 4" 141.45 ft.					
Static Water Level: 50.25					
One Casing Volume: 59.64 gal					
Start Purge (hrs.): 1420					
End Purge (hrs.): 1520					
Total Purge Time (min.): 60					
Total Amount Purged (gal.): 195					
Monitor Reading: NO elev ANV					
Purge Method: sub pump					
Sample Method: Hand bail					
Depth Sampled: 141 ft.					

Sample Date & Time: 12-10-91 0810	Sample Data			
	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: RP	7.67	130 umhos/cm	16.8	29.8 NTU

Signature(s): RPatts

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [ ] Grab
- [ ] Composite
- [ ] Grab - Composite

Observations / Notes:
well purged clear until 55 gal, then light turbidity - clear by 100 gal.
well purged 12-9-91 went dry.
flush mount well - TOC 0.25 ft below surface
+ All measurements to surface.

Analysis:	Preservative
VOA	HCl
DMA	—
tot metals	HNO_3
diss metals	HNO_3
CN	NaOH
Cr+6	—

	Organic	Inorganic
Traffic Report #		
Tag #		
AB #		
Date Shipped		
Time Shipped		
Lab		
Volume		

NUS CORPORATION

SAMPLE LOG SHEET

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- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

Case # _____

By RP

Project Site Name NWIRP Bethpage Project Site Number 0281

NUS Source No. BP-G-MW-29-S Source Location MW-29-S

Total Well Depth: 48.45 Ft	Purge Data				
Well Casing Size & Depth: 4" 48.45 Ft	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 43.3 Ft					
One Casing Volume: 3.37 gal					
Start Purge (hrs.): 0945					
End Purge (hrs.): 1040					
Total Purge Time (min.): 55					
Total Amount Purged (gal.): 12					
Monitor Reading: No elev HNU					
Purge Method: Hand bail					
Sample Method: Hand bail					
Depth Sampled: 48 Ft.					
Sample Date & Time: 12-10-91 1045	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: RP	9.58	980 umhos/cm	16.2	>200 NTU	

Signature(s): RPatus

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [ ] Grab
- [ ] Composite
- [ ] Grab - Composite

Observations / Notes:
well turbid throughout purging
well stick-up 2.1 Feet
PVC

→ All measurements to surface.

Analysis:	Preservative		Organic	Inorganic
VOA	HCl	Traffic Report #		
BNA	—	Tag #		
tot metals	HNO_3			
diss metals	HNO_3	AB #		
CN	NaOH	Date Shipped		
Cr+6.	—	Time Shipped		
		Lab		
		Volume		

NUS CORPORATION

SAMPLE LOG SHEET

- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

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Case # _____

By RP

Project Site Name NWIRP Bethpage Project Site Number 3281

NUS Source No. BPG-MW-29-I Source Location MW-29-I

Total Well Depth: 128.85 ft	Purge Data				
Well Casing Size & Depth: 4" 128.85 ft.	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 44.35 ft					
One Casing Volume: 55.26 gal					
Start Purge (hrs.): 10:15					
End Purge (hrs.): 11:34					
Total Purge Time (min.): 79					
Total Amount Purged (gal.): 185					
Monitor Reading: No elev HNU					
Purge Method: Sub. pump					
Sample Method: Hand bail					
Depth Sampled: 128 ft.					
Sample Date & Time: 12-10-91 11:45	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: RP	10.12	160 umhos/cm	17.0		

Signature(s): RPetrs

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [ ] Grab
- [ ] Composite
- [ ] Grab - Composite

Observations / Notes:
well became turbid at 50 gal, clear at 95 gal - clear when sample.
well ran dry several times.
flush mount well TOC 0.7 ft below surface.
+ All measurements to surface

Analysis:	Preservative		Organic	Inorganic
VOA	HCl	Traffic Report #		
BNA	—	Tag #		
tot metals	HNO_3			
diss metals	HNO_3	AB #		
CN	NaOH	Date Shipped		
Cr+6	—	Time Shipped		
		Lab		
		Volume		

NUS CORPORATION

SAMPLE LOG SHEET

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Case # _____

By RP

- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

Project Site Name NWIRP Bethpage Project Site Number 3281

NUS Source No. BP-G-USGS Source Location USGS well

Total Well Depth: * 71.0 Ft	
Well Casing Size & Depth: 2" 71.0 Ft	
Static Water Level: 48.75 Ft	
One Casing Volume: 7.25 gal	
Start Purge (hrs.): 1435	
End Purge (hrs.): 1505	
Total Purge Time (min.): 30	
Total Amount Purged (gal.): 15	
Monitor Reading: No elev HNU	
Purge Method: Hand bail	
Sample Method: Hand bail	
Depth Sampled: 70 Ft.	
Sample Date & Time: 12-10-91 1520	
Sampled By: RP	
Signature(s): RPatty	

Purge Data

Volume	pH	S.C.	Temp. (°C)	Color & Turbidity

Sample Data

pH	S.C.	Temp. (°C)	Color & Turbidity
6.67	110 umhos/cm	15.4	140.4 NTU

Type of Sample

- [x] Low Concentration
- [ ] High Concentration
- [ ] Grab
- [ ] Composite
- [ ] Grab - Composite

Observations / Notes:

well had black, organic-like turbidity,
Casing was buried at roadside - may recieve runoff from road
well flush mount TOC 0.3 ft below.
→ All measurements to surface.

Analysis:	Preservative
VOA	HCl
BNA	—
tot metals	HNO_3
diss metals	HNO_3
CN	NaOH
Crt6	—

	Organic	Inorganic
Traffic Report #		
Tag #		
AB #		
Date Shipped		
Time Shipped		
Lab		
Volume		

NUS CORPORATION

SAMPLE LOG SHEET

- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

Case # _____

By RP

Project Site Name NWIRP Betnpage Project Site Number 3281

NUS Source No. BAG-HN-25-D, D-D, D-MS, D-MSD Source Location HN-25-D

Total Well Depth:* 210.7 ft	Purge Data				
Well Casing Size & Depth: 4" 210.7 ft	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 54.54 ft					
One Casing Volume: 102.1 gal					
Start Purge (hrs.): 1150					
End Purge (hrs.): 1215					
Total Purge Time (min.): 25					
Total Amount Purged (gal.): 340					
Monitor Reading: HNU 0.6ppm bactgr 0.3ppm					
Purge Method: subm pump					
Sample Method: hand bail					
Depth Sampled: 175 ft (approx)					
Sample Date & Time: 2-12-92 14:25	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: RP	7.49	120 umhos/cm	12.4	102.8 NTU	

Signature(s): [signature]

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Observations / Notes:
water relatively clear with very fine suspended silt. Purged 2-11-92
flush mount well TOC is feet below surface PVC
pump set at approx 75 feet
* all measurements to top of casing

Analysis:	Preservative
VOA	HCl
BNA	—
tot. metals	HNO_3
diss. metals	HNO_3
CN	NaOH
Cr+6	—

	Organic	Inorganic
Traffic Report #		
Tag #		
AB #		
Date Shipped		
Time Shipped		
Lab		
Volume		

SAMPLE LOG SHEET

HALLIBURTON NUS
Environmental Corporation

- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

Case # _____

By DY

Project Site Name NWIRP Project Site Number 3281

NUS Source No. BP-6-HN25-D, D-D Source Location HN25-D DUPLICATE

	Purge Data				
Total Well Depth: 210.7'					
Well Casing Size & Depth: 4" @ 210.7'	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: 54.54'					
One Casing Volume: 102.1 Gal					
Start Purge (hrs.): 1150					
End Purge (hrs.): 1215					
Total Purge Time (min.): 25					
Total Amount Purged (gal.): 340					
Monitor Reading: HNu 0.6 PPM Background 0.3 PPM					
Purge Method: Sub Pump					
Sample Method: HAND BAIL					
Depth Sampled: 175' (approx)					

Sample Date & Time:	Sample Data			
2-12-92 14:25	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: R.P	7.49	120 mmhos/cm	12.4	102.8 NTU

Signature(s): D. Yost FOR R.P

Observations / Notes: Duplicate sample of HN25-D

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Analysis:	Preservative		Organic	inorganic
VOA	HCL	Traffic Report #		
BNA	—	Tag #		
Total metals	HNO_3			
Dissolved metals	HNO_3	AB #		
CN	NaOH	Date Shipped		
Hex chrom	—	Time Shipped		
		Lab		
		Volume		

NUS CORPORATION

SAMPLE LOG SHEET

- [x] Monitoring Well Data
- [ ] Domestic Well Data
- [ ] Other _____

Case # _____

By RP

Project Site Name NWIRP Bethpage Project Site Number 3281

NUS Source No. BP-G-HN-29 D Source Location HN-29-D

	Purge Data				
Total Well Depth: * 220.0 ft	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Well Casing Size & Depth: 4" 220 ft					
Static Water Level: 46.8 ft					
One Casing Volume: 113.3 gal					
Start Purge (hrs.): 1020					
End Purge (hrs.): 1045					
Total Purge Time (min.): 25					
Total Amount Purged (gal.): 375					
Monitor Reading: HNU 0.3 ppm bacgr. 0.2 ppm					
Purge Method: subm pump					
Sample Method: hand bail					
Depth Sampled: 175 ft					
Sample Date & Time: 2-12-92	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: RP	7.85	140 umhos/cm	12.1	4.92 NTU	

Signature(s): [signature]

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Observations / Notes:
purge water clear purged 2-12-92
flush mount well TOC is Feet below surface PVC
pump set at approx 75 ft
* measurements to top of casing

Analysis:	Preservative		Organic	Inorganic
VOA	HCl	Traffic Report #		
BNA	—	Tag #		
tot metals	HNO_3			
diss metals	HNO_3	AB #		
CN	NaOH	Date Shipped		
Cr^{+6}	—	Time Shipped		
		Lab		
		Volume		

NUS CORPORATION

SAMPLE LOG SHEET

☒ Monitoring Well Data
☐ Domestic Well Data
☐ Other _____

Case # _____

By RP

Project Site Name Bethpage Project Site Number 3281

NUS Source No. BP-G-HN08-D Source Location HN-08-D

Total Well Depth: 198 ft.	
Well Casing Size & Depth: 4" 198 ft	
Static Water Level: 56.10 ft	
One Casing Volume: 93.1 gal	
Start Purge (hrs.): 1145	
End Purge (hrs.): 1205	
Total Purge Time (min.): 20	
Total Amount Purged (gal.): 300	
Monitor Reading: HNU 0.8 ppm background 0.3 ppm	
Purge Method: Subm. pump	
Sample Method: hand bail	
Depth Sampled: 190 ft	
Sample Date & Time: 2-12-92 12:25	
Sampled By: RP	

Purge Data

Volume	pH	S.C.	Temp. (°C)	Color & Turbidity

Sample Data

pH	S.C.	Temp. (°C)	Color & Turbidity
10.04	320 umhos/cm	16.3	44.2 NTU

Signature(s): [signature]

Type of Sample
☒ Low Concentration
☐ High Concentration
☒ Grab
☐ Composite
☐ Grab - Composite

Observations / Notes:
purge water was clear purged 2-12-92
flush mount well - TOC is 0.5 feet below surface. PVC
pump set @ approx 75 ft
* All measurements to surface

Analysis:	Preservative
VOA	HCl
BNA	—
tot metals	HNO_3
diss. metals	HNO_3
CN	NaOH
Cr+6	—

	Organic	Inorganic
Traffic Report #		
Tag #		
AB #		
Date Shipped		
Time Shipped		
Lab		
Volume		

B.3

SURFACE WATER/SEDIMENTS

SURFACE water / SEDIMENT SAMPLES

NUS CORPORATION

SAMPLE LOG SHEET TABLE OF CONTENTS

SAMPLE NUMBER	DATE SAMPLED	SAMPLE NAME	PAGE NO.
BP-SD-2-01	08-27-91	SEDIMENT - SITE 2	S1
BP-SD-2-01-D	↓	↓	S2
BP-SD-2-02	↓	↓	S3
BP-SD-100	12-11-91	↓	S4
BP-SD-200	↓	↓	S5
BP-SW-03	12-4-91	SURFACE WATER	S6
BP-SW-01	↓	↓	S7

NUS CORPORATION
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SAMPLE LOG SHEET

- [ ] Surface Soil
- [ ] Subsurface S .l
- [x] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Page 51 of 57
Case # —
By TR

Project Site Name NWIRP BethPage Project Site Number 3281
NUS Source No. BP-SD-2-01 Source Location Site -2

	Composite Sample Data		
	Sample	Time	Color / Description
Sample Method: S. S. Trowel			
Depth Sampled: 0-6"			
Sample Date & Time: 08-27-91 1000			
Sampled By: TR		N/A	
Signature(s): [signature]			

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
Tan	Coarse Sand (Pebbels)

Analysis	Taken?	Bottle ID #	C of C #
TCL volatiles	✓	—	#4
TCL BNA	✓	05169106	↓
TAL Metals	✓	↓	↓
Cyanide	✓	↓	↓

Notes:
West side of S[redacted] Basin
30' from west spillway

Shipped w/ Soil Boring Trip Blank

SAMPLE LOG SHEET

NUS CORPORATION
A Halliburton Company

- [ ] Surface Soil
- [ ] Subsurface Soil
- [x] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Pages 2 of 57
Case # –
By TR

Project Site Name NWIRP BethPage Project Site Number 3281
NUS Source No. BP-SD-2-01-D Source Location Site-2

Sample Method:	S.S. Trowel
Depth Sampled:	0-6"
Sample Date & Time:	08-27-91 1000
Sampled By:	TR
Signature(s):	[signature]

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

Composite Sample Data

Sample	Time	Color / Description
	N/A	

Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
TAN	Coarse Sand (Pebbels)

Analysis	Taken?	Bottle ID #	C of C #	Notes:
TCL Volatiles	✓	–	#4	West Side of SE Basin
TCL BNA	✓	05169106	↓	
TAL Metals	✓	↓	↓	
Cyanide	✓	↓	↓	
				Shipped w/ Soil Boring Trip Blank

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- ☐ Surface Soil
- ☐ Subsurface Soil
- ■ Sediment
- ☐ Lagoon / Pond
- ☐ Other _____

Page 53 of 57

Case # —

By TR

Project Site Name NWIRP BethPage Project Site Number 3281

NUS Source No. BP-SD-2-02 Source Location Site-2

Sample Method: S.S. Trowel	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 0-6"			
Sample Date & Time: 08-27-91 1030			
Sampled By: TR		N/A	
Signature(s): [signature]			
Type of Sample			
☒ Low Concentration			
☐ High Concentration			
☒ Grab			
☐ Composite			
☐ Grab - Composite			

Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
TAN	Coarse Sand (Pebbels)

Analysis	Taken?	Bottle ID #	C of C #	Notes:
TCL Volatiles	✓	–	#4	Sampled East Part of SE Basin
TCL BNA	✓	0516 9106	↓	
TAL Metals	✓	↓	↓	
Cyanide	✓	↓	↓	
				Shipped w/ Soil Boring Trip Blank

NUS CORPORATION
A Halliburton Company

SAMPLE LOG SHEET

- [ ] Surface Soil
- [ ] Subsurface Soil
- [x] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Page 54 of 57

Case # _____

By RP

Project Site Name NWIRP Bethpage Project Site Number 3281

NUS Source No. BP-SD-100 Source Location Cooling pond # 2

Sample Method: trowel	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: 0-6"			
Sample Date & Time: 12-11-91 0800			
Sampled By: RP			
Signature(s): RPatel			
Type of Sample			
[x] Low Concentration			
[ ] High Concentration			
[ ] Grab			
[ ] Composite			
[ ] Grab - Composite			

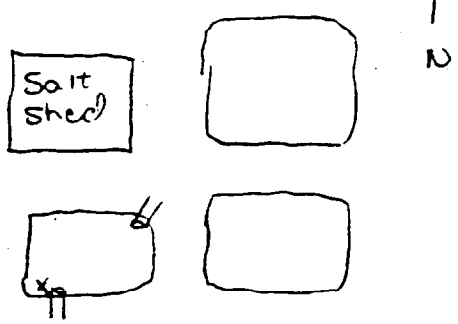
Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
tan	Matches SW-01

Analysis:
- VOA
- BNA
- tot met / CN
- Cr+6

Observations / Notes

Med to very coarse sand w/ black sediment. Water clear. No elev HNU

From process water cooling basin immed west of outfall at bottom (level) of basin



	Organic	Inorganic
Traffic Report #		
Tag #		
AB #		
Date Shipped		
Time Shipped		
Lab		
Volume		

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SAMPLE LOG SHEET

- [ ] Surface Soil
- [ ] Subsurface Soil
- [x] Sediment
- [ ] Lagoon / Pond
- [ ] Other _____

Page 55 of 57

Case # _____

By RP

Project Site Name NWIRP Betnpage Project Site Number 3281

NUS Source No. BP-SD-200 Source Location Cooling pond 2

Sample Method: trowel

Depth Sampled: 0-6"

Sample Date & Time: 12-11-91. 0825

Sampled By: RP

Signature(s): RPatS

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [ ] Grab
- [ ] Composite
- [ ] Grab - Composite

Composite Sample Data

Sample	Time	Color / Description

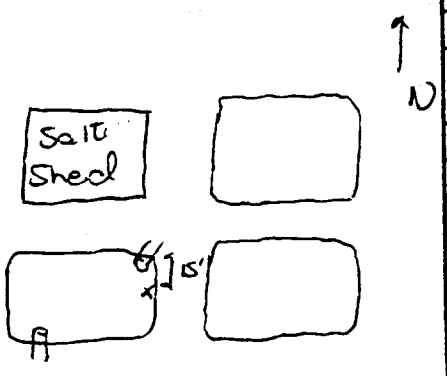
Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
tan	Matches SW-02

Analysis:
- VOA
- BNA
- total metals/CN
- Cr+6

Observations / Notes

Med to very coarse sand w/black organic, water clear
No elev HNU
From process water cooling basin immed (15 ft) South of north outfall at bottom level of basin.



	Organic	Inorganic
Traffic Report #		
Tag #		
AB #		
Date Shipped		
Time Shipped		
Lab		
Volume		

HALLIBURTON NUS
Environmental Corporation

SAMPLE LOG SHEET

- ☐ Spring
- ☐ Lake
- ☐ Stream
- ☒ Other RECHARGE BASIN

Case # _____

By D Y

Project Site Name NWIRP BETH PAGE Project Site Number 3281

NUS Source No. BP-SW-03 Source Location COOLING POND 1

Sample Method:	Sample Data			
DIRECT	pH	S.C.	Temp. (°C)	Color & Turbidity
Depth Sampled: 3"	NA	NA	NA	CLEAR

Sample Date & Time: 12-4-91 1516

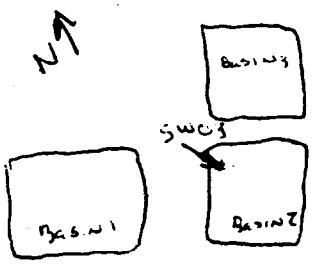
Sampled By: D. YOST

Signatures: D. Yost

Type of Sample
- ☒ Low Concentration
- ☐ High Concentration
- ☒ Grab
- ☐ Composite
- ☐ Grab - Composite

Analysis:	Preservative
VOA	HCl
BNA	—
TOTAL metals	HNO_3
Dissolved metals	HNO_3
CYANIDE	NaOH
HEX CHROM	

SAMPLE TAKEN FROM INFLUENT COOLING WATER



	Organic	Inorganic
Traffic Report #		
Tag #		
AB #		
Date Shipped		
Time Shipped		
Lab		
Volume		

HALLIBURTON NUS
Environmental Corporation

SAMPLE LOG SHEET

Page ~~56~~ of 57 (57)

- [ ] Spring
- [ ] Lake
- [ ] Stream
- [x] Other RECHARGE BASIN

Case # _____

By D T

Project Site Name NW IRP BETHPAGE Project Site Number 3281

NUS Source No. BP-SW-01 Source Location COOLING POND 3

Sample Method:	Sample Data			
DIRECT	pH	S.C.	Temp. (°C)	Color & Turbidity
Depth Sampled: 3"	NA	NA	NA	CLEAR

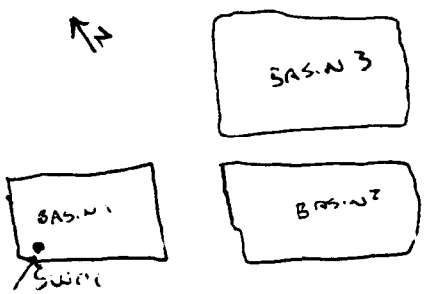
Sample Date & Time: 12-4-91 1530

Sampled By: D. Yost

Signatures: D. Yost

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [x] Grab
- [ ] Composite
- [ ] Grab - Composite

SAMPLE TAKEN FROM STORM WATER DISCHARGE POINT.



Analysis:	Preservative
VOA	HCl
BNA	—
TOTAL METALS	HNO_3
Dissolved metals	HNO_3
CYANIDE	NaOH
Hex CHROM	—

	Organic	Inorganic
Traffic Report #		
Tag #		
AB #		
Date Shipped		
Time Shipped		
Lab		
Volume		

B.4

PRODUCTION WELLS

PRODUCTION WELL SAMPLES

NUS CORPORATION

SAMPLE LOG SHEET
TABLE OF CONTENTS

SAMPLE NUMBER	DATE SAMPLED	SAMPLE NAME	PAGE NO.
BP-6-PW 10	12-5-91	PRODUCTION WELLS	61
BP-6-PW 11	↓	↓	62
BP-6-PW 13	↓	↓	63
BP-6-PW 15	↓	↓	64

NUS CORPORATION

SAMPLE LOG SHEET

Page ~~63~~ 61 of 64

- ☐ Monitoring Well Data
- ☐ Domestic Well Data
- ☒ Other Prod well

Case # _____

By RP

Project Site Name NWIRP Bethpage Project Site Number 3281

NUS Source No. BP-G-PW-10 Source Location Prod Well No. 10

Total Well Depth: 500 FT.	Purge Data				
Well Casing Size & Depth: 12" 500 FT.	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: unknown					
One Casing Volume: unknown					
Start Purge (hrs.): na					
End Purge (hrs.): na					
Total Purge Time (min.): na					
Total Amount Purged (gal.): na					
Monitor Reading: no elev HNU					
Purge Method: Subm pump					
Sample Method: Spigot					
Depth Sampled: ~					
Sample Date & Time: 12-5-91 0915	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: D. Yost	6.4	80 mmhos/cm	15.2	3.84 NTU	

Signature(s): R Pais for DY

Type of Sample
- ☒ Low Concentration
- ☐ High Concentration
- ☐ Grab
- ☐ Composite
- ☐ Grab - Composite

Observations / Notes:
Bethpage cooling water production well.
pump setting 110 Ft. 1200 gpm
well was running (in-use) when samples - no purge necessary

Analysis:	Preservative		Organic	Inorganic
VOA	HCl	Traffic Report #		
BNA	—	Tag #		
tot. metals	HNO_3			
diss. metals	HNO_3	AB #		
CN	NaOH	Date Shipped		
Cr+6	—	Time Shipped		
		Lab		
		Volume		

NUS CORPORATION

SAMPLE LOG SHEET

- [ ] Monitoring Well Data
- [ ] Domestic Well Data
- [x] Other Prod. Well

Page 62 of 64

Case # _____

By RP

Project Site Name NWIRP Bethpage Project Site Number 3281

NUS Source No. BP-G-PW-11 Source Location Prod. well No 11

Total Well Depth: 490 Ft.	Purge Data				
Well Casing Size & Depth: 12" 490 Ft	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: unknown					
One Casing Volume: unknown					
Start Purge (hrs.): 0920					
End Purge (hrs.): 0933					
Total Purge Time (min.): 13					
Total Amount Purged (gal.): No gage					
Monitor Reading: No view HNU					
Purge Method: Sub. pump					
Sample Method: Spigot					
Depth Sampled: —					
Sample Date & Time: 12-5-91 0925	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: D. Yost	6.4	120 umhos/cm	15.1	4.9 NTU	

Signature(s): R Pats for DY

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [ ] Grab
- [ ] Composite
- [ ] Grab - Composite

Observations / Notes:

Bethpage cooling water production well.

pump setting 110 Ft. 1200 gpm

No gage to measure volume.

Analysis:	Preservative		Organic	Inorganic
VOA	HCl	Traffic Report #		
BNA	—	Tag #		
tot metals	HNO_3			
diss metals	HNO_3	AB #		
CN	NaOH	Date Shipped		
Cr^{+6}	—	Time Shipped		
		Lab		
		Volume		

NUS CORPORATION

SAMPLE LOG SHEET

Page ~~65~~ 63 of 64

Case # _____

By RP

- [ ] Monitoring Well Data
- [ ] Domestic Well Data
- [x] Other Prod. well

Project Site Name NWIRP Bethpage Project Site Number 3281

NUS Source No. BP-G-PW-13 Source Location Prod. well No 13

Total Well Depth: 560 ft	Purge Data				
Well Casing Size & Depth: 12" 560 ft	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: unknown					
One Casing Volume: unknown					
Start Purge (hrs.): 0825					
End Purge (hrs.): 0830					
Total Purge Time (min.): 5					
Total Amount Purged (gal.): 11,400					
Monitor Reading: No elev HNU					
Purge Method: subm pump					
Sample Method: spigot					
Depth Sampled: —					
Sample Date & Time: 12-5-91 0830	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: D. Yost	7.3	100 umhos/cm	11.8	6.9 NTU	

Signature(s): RPatts for DY

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [ ] Grab
- [ ] Composite
- [ ] Grab - Composite

Observations / Notes:
Bethpage cooling water production well.
pump set at 110 ft.
water level unknown
well No N-8454 1200 gpm

Analysis:	Preservative
VOA	HCl
DNA	—
tot metals	HNO_3
diss metals	HNO_3
cyanide	NaOH
Cr^{+6}	—

	Organic	Inorganic
Traffic Report #		
Tag #		
AB #		
Date Shipped		
Time Shipped		
Lab		
Volume		

NUS CORPORATION

SAMPLE LOG SHEET

- [ ] Monitoring Well Data
- [ ] Domestic Well Data
- [x] Other Prod well

Page ~~66~~ 64 of 64

Case # _____

By RP

Project Site Name NWIRP Bethpage Project Site Number 3281

NUS Source No. BP-G-15 Source Location Prod. well No 15

Total Well Depth: 500 ft	Purge Data				
Well Casing Size & Depth: 12" 500 ft	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: unknown					
One Casing Volume: unknown					
Start Purge (hrs.): 0848					
End Purge (hrs.): 0853					
Total Purge Time (min.): 5					
Total Amount Purged (gal.): 17,500					
Monitor Reading: no clue HNU					
Purge Method: Sub pump					
Sample Method: Spigot					
Depth Sampled:					
Sample Date & Time: 12-5-91 0853	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: D. Yost	6.9	60 umhos/cm	13.6	7.5 NTU	

Signature(s): RPts For DY

Type of Sample
- [x] Low Concentration
- [ ] High Concentration
- [ ] Grab
- [ ] Composite
- [ ] Grab - Composite

Observations / Notes:
Bethpage cooling water production well.
pump set at 110 feet. 1200 gpm
water level unknown

Analysis:	Preservative		Organic	Inorganic
VOA	HCl	Traffic Report #		
BNA	—	Tag #		
total metals	HNO_3			
diss. metals	HNO_3	AB #		
Cyanide	NaOH	Date Shipped		
Cr^{+6}	—	Time Shipped		
		Lab		
		Volume		

APPENDIX C

BORING LOG SHEETS/CHAIN OF CUSTODY FORMS

BORING LOG — **NUS CORPORATION**

PROJECT: NWRP Betzpage — BORING NO: HN-24-A
PROJECT NO.: 3281 — DATE: 9-3-91 — DRILLER: Bill Jester - UTD
ELEVATION: — FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
	0	6 / 12				lt br	6" coarse sand w/organic		
2"		14 / 11	12" / 24"		DENSE	dk br	6" coarse sand org. gravel to 1"	SP	No elev HNU
	2					Black to lt br	coarse sand w/organic		
							↓		
	4						↓		
		4 / 16				br	6" coarse sand gravel to 1.5"		
2"	6	17 / 30	18" / 24"		DENSE	tan	12" med to coarse sand gravel .5"	SW	No elev HNU
						br	coarse sand gravel to .5"		
	8						↓		
							↓		
	10	8 / 20							
2"		15 / 16	12" / 24"		DENSE	orange to tan	12" coarse sand gravel to 1.5"	SW	No elev HNU
	12					orange to tan	coarse sand gravel to 1.5"		No elev HNU
							↓		
	14						↓		
		9 / 12							
2"	16	11 / 14	18" / 24"		MEDIUM DENSE	tan to br	med to coarse sand less gravel	SW	No elev HNU
						br	coarse sand gravel to 2"		
	18						↓		
							↓		
	20	7 / 28							
2"		30 / 27	6" / 24"		DENSE	tan to br	coarse sand gravel to 2"	SW	No elev HNU
	22					br to dk br	coarse sand gravel to 2.5"		
							↓		
	24						↓		

REMARKS: Boring began to angle at ~15-20 ft. Several attempts made to straighten

BORING HN-24-A

PAGE 1 of 3

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage — BORING NO.: HN-24-A
PROJECT NO.: 3281 — DATE: 9-3-91 — DRILLER: Bill Jester - UTD
ELEVATION: — FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (FT.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CLASS	REMARKS
		20 / 15							
2"	26	20 / 19	12" / 24"		DENSE	tan	coarse sand gravel to 1.5"	SP	NO elev HNU
						br to dk br	coarse sand gravel to 1"		
	28					↓			
	30	8 / 10							
2"		20 / 19	12" / 24"		DENSE	tan to wh	med to coarse sand gravel to .75"	SP	NO elev HNU
	32					br	coarse sand gravel to .75"		
						↓			
	34								
		23 / 32				tan to br	8" coarse sand gravel to .5"		some clean sand
2"	36	30 / 38	18 / 24"		DENSE	rd br / tan	2" iron stone gravel / 6" coarse sand gravel to .75"	SP	NO elev HNU
						tan	coarse sand gravel to .75"		
	38								
	40	10 / 20				tan to wh	6" med sand		moist
2"		25 / 35	12" / 24"		DENSE	br	6" coarse sand	SP	NO elev HNU
	42					br	coarse sand gravel to 1.5"		
						↓			
	44								
		50 / 92			DENSE	tan to br	6" coarse sand gravel to 1"	SP	
2"	46	refusal	12" / 24"			lt br	6" med sand		NO elev HNU
						lt br	med sand		
	48								
						↓			

REMARKS: At approx 40' - boring angle 1 1/12". By moving rig straightened considerably

BORING HN-24-A

PAGE 2 : 3

BORING LOG **NUS CORPORATION**

PROJECT: NWIRP Bethpage BORING NO.: HN-24-A
PROJECT NO.: 3281 DATE: 9-3-91 DRILLER: Bill Jester - UTD
ELEVATION: FIELD GEOLOGIST: RPatarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	50	30 / 68							Satur. at 50'6"
2"		50 / 50/4"	24" / 24"		Dense	rd br	coarse sand saturated very gravelly to 1"	SP	No elev HNU
	52								
	54								
									No further
									augering -
									boring was
									abandoned
									due to angle.
									Boring location
									wandered
									approx 10'
									from start.

REMARKS From 40' to 50' boring angled again 1/12"
At end of boring several large chunks of brick
and concrete emerged.

BORING HN-24A

PAGE 3 : 3

BORING LOG **NUS CORPORATION**

PROJECT: NWIRP Bethpage BORING NO: HN-24-B
PROJECT NO.: 3281 DATE: 9-4-91 DRILLER: Bill Jester - UTD
ELEVATION: FIELD GEOLOGIST: RPatarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	0					dk br to br	coarse sand w/organic		
						br	coarse sand gravel to 2"		no elev HNU
	2						↓		
	4						↓		
						br	coarse sand gravel to 1"		
	6						↓		
	8						↓		
							↓		
	10					br	coarse sand gravel to 2.5"		No elev HNU
							↓		
	12						↓		
						br	coarse sand gravel >2.5"		at 13' hitting large
	14					br	coarse sand gravel to 1.5"		gravel - see below
						br	coarse sand gravel to 1"		
	16						↓		4" concrete chunk
	18						↓		
							↓		
	20					br	coarse sand gravel to 2.5"		No elev HNU
							↓		
	22					br	coarse sand gravel to 1"		
							↓		
	24						↓		

REMARKS at 13' began to hit a large gravel - boring began to drift moved rig to straighten
At 15'-24" concrete chunk came up - possible rubble or former foundation

BORING HN-24-

PAGE 1 of 3

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage — BORING NO.: NW-24-B
PROJECT NO.: 3281 — DATE: 9-4-91 — DRILLER: Bill Jester - UTD
ELEVATION: — FIELD GEOLOGIST: R Batorsky
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CONSISTENCY	REMARKS
						br	coarse sand gravel to 1"		
	26						↓		
	28								
	30					br	coarse sand gravel to 1.5"		
	32								
	34								No elev NWU
						br	coarse sand gravel to .5"		
	36								
	38								
	40								
	42								
	44								
	46						gravel is Finer		
	48								
							↓		No elev NWU

REMARKS

BORING NW-24-B

PAGE 2 of 3

BORING LOG **NUS CORPORATION**

PROJECT: NWIRP Bethpage BORING NO.: HN-24-B
PROJECT NO.: 3281 DATE: 9-4-91 DRILLER: Bill Jester - UTD
ELEVATION: FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	50					yellow br	coarse sand gravel to .5"		
							↓		
	52								
	54								
		12							at 56'- 6 feet of
		15							
2"	56	27	24"			wt to tan	med sand - saturated		water on rod & spoon
		26	24"				↓		no elve HNU
	58								58' bottom
									depth of well
	60								

REMARKS at 56 ft → 6 feet water on rod & spoon
with 58' auger in place water level 57'10"
depth 58'6"

BORING HN-24

PAGE 3 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE
BORING NO.: HN 24 - I
PROJECT NO.: 3781
DATE: 10-22-91
DRILLER: MIKE (DELTA)
ELEVATION:
FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	UNIFIED SOIL CLASS. OR ROCK HARDNESS	REMARKS
	0.0						SEE LOGS		
	2.0								
							FROM		
	4.0								
							HN 24-5		
	6.0								
	8.0								
	10.0								
	12.0								
	14.0								
	16.0								
	18.0								
	20.0								
	22.0								
	24.0								

REMARKS

BORING HN24-I

PAGE 1 of 6

BORING LOG **NUS CORPORATION**

PROJECT: ..... BORING NO.: HN24-I
PROJECT NO.: ..... DATE: ..... DRILLER: .....
ELEVATION: ..... FIELD GEOLOGIST: .....
WATER LEVEL DATA: .....
(Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	26.0								
							SEE LOGS		
	28.0						FROM HN24-5		
	30.0								
	32.0								
	34.0								
	36.0								
	38.0								
	40.0								
	42.0								
	44.0								
	46.0								
	48.0								
	50.0								

REMARKS _____

BORING HN24-I

PAGE 2 of 6

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRF BETHPAGE — BORING NO.: HNZ4-I
PROJECT NO.: 3781 — DATE: 10-22-91 — DRILLER: MIKE F (DELTA)
ELEVATION: — FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA: (Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CODE	REMARKS
						BROWN	CUTTINGS CONSIST OF		
	52.0						SAND WITH SOME GRAVELS		
									H.S. HEAD SPACE
	54.0								
S-1 1512	56.0	14 8 8 10	1.5/2.0		MEDIUM DENSE	REDDISH BROWN	SAND - FINE-COARSE SILT TR CLAY, FINE GRAVEL	SM/SP	S-1 55-57' H.S. - 8 PPM
	58.0								
S-2 1835	60.0	3 3 4 10	2.0/2.0		LOOSE STIFF	REDDISH BROWN BROWN	FINE - COARSE SAND - TOP 1½ FEET SILTY CLAY - REMAINING 1.5	SW "	S-2 60-62' 6.7 PPM - H.S.
	62.0								
							CUTTINGS CONSIST GENERALLY OF GRAVEL AND COARSE SAND.		10/23 0745 HNU BACKGROUND = 2.0 ppm
	64.0								
	66.0								
	68.0								
	70.0								
10/23		7 8	[illegible]		STIFF	BROWN	[illegible] SAND - [illegible]	CL	S-3 70-72 H.S. - 7 [illegible]
	72.0	10 [illegible]					SANDY CLAY [illegible]		[illegible]
							[illegible] SILT		
	74.0								

REMARKS F-16 R-6. [illegible] INCH I.D HSA FOR PILOT HOLE 6¾ INCH I.D HSA FOR DRILLING [illegible] 140 lb HAMMER DROPPED 30" FOR 2" I.D SPLIT SPOON SAMPLES

BORING HNZ4-I

PAGE 3 of 6

BORING LOG **NUS CORPORATION**

PROJECT: BETHPAGE BORING NO.: HN 24 I
PROJECT NO.: 3281 DATE: 10-23-91 DRILLER: MIKE P. (DELTA)
ELEVATION: FIELD GEOLOGIST: YOST / KIL MARTIN
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	76.0								
									[illegible]
	78.0								
	80.0								
S-4 0844		8 / 58	2.6 / 2.0	[illegible]	DENSE	GRAY BROWN	CLAYEY SILTY SAND	SC	S-4 80-82 BG [illegible]
	82.0	72 / 95			V. DENSE	TAN-BROWN	MEDIUM COARSE SAND TR GRAVEL	SW	HS 9 [illegible]
	84.0								
	86.0								
	88.0								
	90.0								
S-5 0910		1 / 46	1.6 / 2.0			TAN-BROWN	TOP [illegible] FINE [illegible]	[illegible]	[illegible]
	92.0	45 / 44					BOTTOM [illegible] FINE COARSE SAND	SW	HS [illegible]
									[illegible]
	94.0								
	96.0								
	98.0								
	100.0								

REMARKS

BORING HN24-I

PAGE 4 of 6

BORING LOG — **NUS CORPORATION**

PROJECT: SETH PAGE — BORING NO.: HN24-I
PROJECT NO.: 3281 — DATE: 10-23-91 — DRILLER: MIKE R. (LELTA)
ELEVATION: — FIELD GEOLOGIST: YOST / MILMARTIN
WATER LEVEL DATA: (Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK SCHEME	REMARKS
S6 9:40		12 / 3	1.5 / 1.5		DENSE	TAN-WHITE	FINE-COARSE SAND	SW	S-6 100-102 B.G. 0.6 ppm
	102.0	10				BROWN	SOME SILT. 1CM THICK CLAY STRINGER AT 101'		H.S. 17.8 ppm 17 ppm ABOVE B.G.
	104								
	106								
	108								
	110								
S7 1110		11 / 40				TAN-BROWN	TOP 1.2' FINE-MEDIUM SAND TR SILT	SW	S-7 102-104 B.G. 0.4 ppm
	112	38 / 41	1.7			BROWN-ORANGE	BOTTOM 0.5' FINE-MEDIUM SAND SOME SILT TR GRAY CLAY LENSES 1-2 CM THICK	SW	H.S. 7.4 ppm 7 ppm ABOVE BACKGROUND
	114								
	116								
	118								
	120								
S8 1155		10 / 20			DENSE	GRAY	TOP 1' FINE-MEDIUM SAND CLAY STRINGERS	SW	S-8 118-120 B.G. 0.2
	122	32 / 34	2.0		VERY DENSE	ORANGE BROWN	LIGHTLY LENSE FINE SAND SOME SILT	SM	H.S. 14.0 13.8 ppm above background
	124								

REMARKS

BORING HN24 I

PAGE 5 of 6

BORING LOG **NUS CORPORATION**

PROJECT: BETH PAGE BORING NO.: HN 24-I
PROJECT NO.: 3281 DATE: 10-23-91 DRILLER: MIKE B. (DELTA)
ELEVATION: FIELD GEOLOGIST: YOST/ KILMARTIN
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	126								
	128								
	130								
S-9 1318		24 / 54			DENSE	GRAY-TAN ORANGE	TOP 0.5' F-MED SAND SOME SILT TR CLAY	SM	S-9 130-132 B.G. - 0.2 PPM
	132	60 / 54	1.8 / 2.0		DENSE	GRAY	LIGNITE LAP NATION BOTTOM 1.3' FINE-MED SAND SOME SILT	SM	H.S. 33 PPM 32.8 PPM ABOVE BACKGROUND
	134								
	136								
	138								
	140								
S-10 1500		7 / 27							S-10 140-142 B.G. 0.2 PPM
	142	40 / 56	1.8 / 2.0			GRAY-BEIGE BLACK	TOP 11" COARSE SAND BOTTOM 11" EXTREMELY DENSE & HARD CLAY		H.S. 20.0 PPM 19.8 PPM above background
	144								
	146								
	148								
S-11 1538		14 / 35				GY-TAN BLK BRN	12" MEDIUM TO COARSE SAND 3" DENSE BLACK CLAY 3" MEDIUM SAND		S-11 148-150 B.G. 0.2
	150	60 / 75	2.0 / 2.0			PPL-GY BRN	2" PURPLISH TO GRAYISH SAND 4" BROWN MEDIUM SAND		H.S. 80.0 79.8 above backgrd.

REMARKS Final sample 148-150' Drillers Drilled to 155' to provide rathole for logger.
250 gallons of water were added to hole to control running sands during drilling.

BORING HN24 I

PAGE 6 of 6

LC22

GAMMA RAY LOG BY

DELTA WELL
& PUMP CO., INC.
97 Union Avenue P.O. Box 1309
RONKONKOMA, NEW YORK 11779
(516) 981-2255

JOHNSON-KECK GR-73 GAMMA RAY LOGGING SYSTEM

WELL 24I, SITE 4 OWNER NAVY/HALLIBURTON NUS

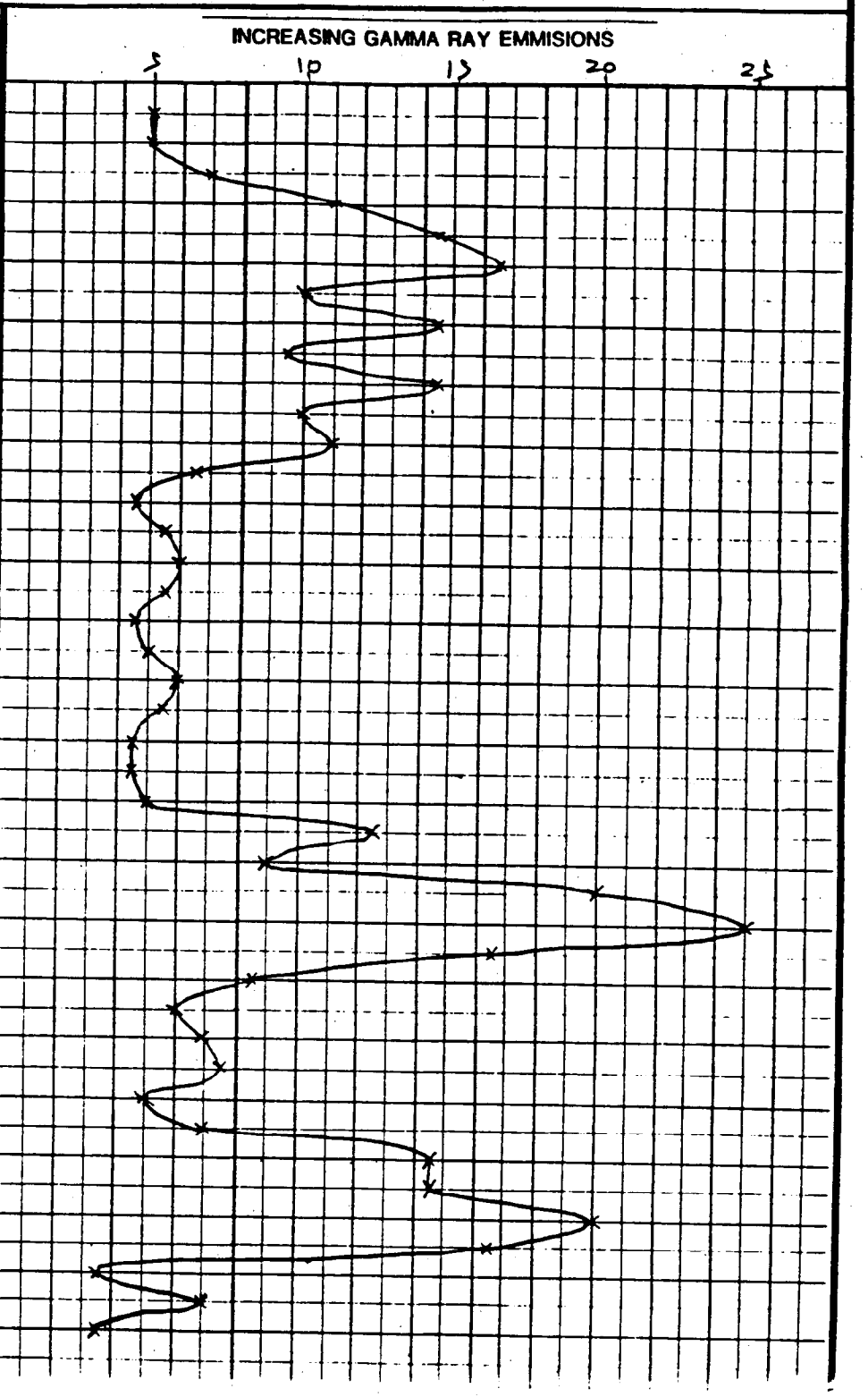
MEASURING POINT 0 feet above/below ground level DATE 10-23-91

DRILLER Mr. M. Pellegrino BOREHOLE DEPTH ____ feet, DIAMETER ____ inches

CASING DEPTH ____ feet, DIAMETER ____ inches OPERATOR Mr. C. Okon

COUNTS SETTING (GR-73) GM/100 RANGE SETTING (GR-81) ____ TIME CONSTANT (GR-81) ____

SECONDS	DEPTH (FT)	COUNTS PER SECOND
20	50	5
20	52.5	5
19	55	7
9	57.5	11
7	60	14.5
6	62.5	16.5
10	65	10
7	67.5	14.5
11	70	9
7	72.5	14.5
10	75	10
9	77.5	11
16	80	6.5
23	82.5	4.5
19	85	5.5
17	87.5	6
10	90	5.5
23	92.5	4.5
20	95	5
17	97.5	6
19	100	5.5
22	102.5	4.5
23	105	4.5
20	107.5	5
8	110	12.5
11	112.5	9
5	115	20
4	117.5	25
6	120	16.5
12	122.5	8.5
17	125	6
14	127.5	7
13	130	7.5
20	132.5	5
14	135	7
7	137.5	14.5
7	140	14.5
5	142.5	20
6	145	16.5
27	147.5	3.5
14	150	7
29	152.5	3.5



SWL ≈ 50'

Logged thru 3 1/4" ID Augers.
All depths measured to top of probe. Probe is 18" long.

BORING LOG **NUS CORPORATION**

PROJECT: BETHPAGE BORING NO.: HN75-5
PROJECT NO.: 3281 DATE: 9-5-91 DRILLER: JAY [illegible] (NITEC)
ELEVATION: FIELD GEOLOGIST: D YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	0.0					[illegible] BLACK	3" GRAVEL LAYER ON TOP SAND SILT, CLAY - FILL		
	2.0								
	4.0								FILL - 5
				5.0		TAN BROWN	FINE - COARSE SAND AND		
	6.0						SUBROUNDED GRAVEL < 3/4 INCH		
	8.0								HNU IS UNAVAILABLE
	10.0								
		5 6				TAN	FINE-COARSE SAND AND SUB-	SW	
S-1 0949	[illegible]	6 7	1.0 / 2.0		MEDIUM DENSE	REDDISH BROWN	ROUNDED GRAVEL ≤ 3/4 INCH TR SILT		DAMP
									HNU [illegible] BLOW COUNT NOT REPRE-
	[illegible]								SENTATIVE OF SOIL DENSITY
	16.0	4					FINE - COARSE SAND AND		
S-2 0957		7 [illegible]	0.8 / 2.0		MEDIUM DEN	TAN BROWN	FINE SUB ROUNDED GRAVEL ≤ 1/2 INCH	SW	[illegible] DAMP
	[illegible]								
	22.								
	24.0								

REMARKS [illegible] 6 3/4 INCH [illegible] HSA 140 lb [illegible] DROPPED 30" FOR [illegible] SPOONS.

BORING [illegible]

PAGE [illegible]

BORING LOG **NUS CORPORATION**

PROJECT: BETHPAGE
PROJECT NO.: 3281
DATE: 9-5-91
BORING NO.: HN 25-S
DRILLER: JAY FLECK (UNITEC)
ELEVATION:
FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
	26.0	6 / 6				TAN	FINE-COARSE SAND AND		
[illegible] 1012		10 / 9	1.2 / 2.0		MEDIUM DENSE	LT BROWN	FINE SUBROUNDED GRAVEL ≤ 1/2"	SW	[illegible]
	28.0								[illegible]
	30.0								
		11 / 11				TAN	FINE-COARSE SAND AND	[illegible]	
[illegible] 1026	32.0	11 / 19	1.0 / 2.0		MEDIUM DENSE	LT BROWN	SUBROUNDED GRAVEL ≤ 1"	[illegible]	[illegible]
	34.0								
	36.0	7 / 7				TAN	FINE-COARSE SAND AND [illegible]	SW	[illegible] OF QUARTZ
[illegible] 1038		9 / 13	1.7 / 2.0		[illegible]	LT BROWN	[illegible] GRAVEL ≤ 1½"	SW	[illegible]
	38.0								
	40.0								
		[illegible] / 12				TAN	[illegible]		
[illegible] 1052	42.0	16 / 18	[illegible] / 2.0		MEDIUM DENSE	[illegible]	[illegible]	SW	[illegible]
	44.0								
				[illegible]	MEDIUM DENSE	[illegible]	[illegible]	SM	
	46.0	[illegible]							
[illegible]		[illegible]	[illegible] / 2.0		[illegible]	TAN	[illegible]	[illegible]	[illegible]
	48.0						[illegible]		[illegible] COLOR
	50.0								

REMARKS

BORING [illegible]

PAGE [illegible]

BORING LOG **NUS CORPORATION**

PROJECT: BETHPAGE BORING NO.: HN 25-S
PROJECT NO.: 3281 DATE: 9-5-91 DRILLER: JAY FLECK (UNITEC)
ELEVATION: FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
		6 / 7				TAN-			MOTTLING IN COLOR
S-8 1118	52.0	11 / 13	2.0 / 2.0		MEDIUM DENSE	WHITE RED	FINE SAND SOME SILT	SM	S-8 50-52 SATURATED AT 51'
									RED BECOMES MORE [illegible]
	54.0								
	56.0	7 / 5				TAN-RED	FINE-COARSE SAND SOME	SW / SM	55.5-56.0 RED [illegible] 56-ORANGE-TAN
S-9 1130		11 / 15	2.0 / 2.0			[illegible] TAN	SAND TR CLAY		S-9 55-57 SATURATED
	58.0								
				59.0					
	60.0								
							BOTM 59.0		

REMARKS WELL TO BE SCREENED 49-59'
SATURATION - 51'

BORING HN 25-S

PAGE 3 of 3

BORING LOG **NUS CORPORATION**

PROJECT: NWIRP BethPAGE BORING NO.: HN 25 PiLOT
PROJECT NO.: 3281 DATE: NOV. 11, 1991 DRILLER: DELTA (MIKE P.)
ELEVATION: FIELD GEOLOGIST: Kevin KILMARTIN
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENNESS	HNU Elevation (HS - BG) REMARKS
									BG. Background HN
	52						cuttings consist of a		HS= Headspace HNU
							very dark brown coarse sand and very		
	54						abundant subrounded gravel.		
							Approx. 1 inch of heave at 58 feet		
	56								
	58	20 / 34				BLK	4" Asphalt & fill (no centerplug)		
1340		44 / 43	16/24			or-brn	12" uniform, medium sand	8.8	BG: 2.2 HS: 11.0
	60								
	62								
							Driller notes formation is very TIGHT & Hard TO		
	64						Drill: unusual for This Shallow a Depth		
	66								
	68								
	70	6 / 16				BRN / LT GY	2" Gravel / 2" Silt & fine sand	6.6	BG: 3.0 HS: 9.6
1430		21 / 21	16/24			BLK-GY / LT. GY	3" Silt & fine sand / 9" very coarse sand		
	72								
End Day									
11/11	74								

REMARKS

BORING HN25

PAGE 1 : 8

BORING LOG **NUS CORPORATION**

PROJECT: BORING NO.:
PROJECT NO.: DATE: 11-12-91 DRILLER:
ELEVATION: FIELD GEOLOGIST:
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	HNU Elevation (HS - BG) REMARKS
	76						Approx. 6" of heave at 80'		
	78								
	80	10 / 12				or-brn TO	24" very uniform, medium to coarse sand.	10.8	BG 0.4 HS 11.2
1202		11 / 16	24 / 24			LT. GY			
	82								
	84								
	86								
	88								
	90	12 / 30				LT. TAN	21" Med. to coarse sand	10.6	BG 0.4 HS 11.0
1315		33 / 40	24 / 24			or-brn	3" fine to med sand with thin bands of iron-staining		
	92								
	94								
							6' of heave at 100'		
	96						Driller reports formation still 'tight' & hard to drill.		
	98								
	100	14 / 25					No recovery: Trap broke		BG HS

REMARKS

BORING HN25

PAGE 2 of 8

BORING LOG NUS CORPORAT

PROJECT: ..... BORING NO.: .....
PROJECT NO.: ..... DATE: ..... DRILLER: .....
ELEVATION: ..... FIELD GEOLOGIST: .....
WATER LEVEL DATA: .....
(Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS (Hud Elevat (HS-BE)
1634		28 / 38	0 / 24				NO recovery; trap broke		
	102								
		5 / 14		Sample 103-105		LT. GY TO BLK	6" Fine to Med. Sand	8.2	BE 1.4 HS 9.6
1720	104	22 / 22	24 / 24			LT. GY	18" Extremely sticky and dense clay.		
							Outside of spoon caked with sticky clay		
	106						Driller felt he was out of the clay below 105'; drilled easier		
							1 ft. of heave at 110 ft.		
	108								
1755								8.4	BE 1.2 HS 9.6
	110	10 / 17				LT. GY LT. GY	5" Coarse sand 7" Grey, very sticky clay		
		17 / 18	24 / 24			LT. GY LT. GY	6" Fine sand 4" Silt & fine sand		
	112					GY & BN	2" Silt & fine sand		
	114								
	116						6 ft of heave at 120 ft.		
	118								
	120	8 / 11				LT. GY LT. GY	12" Fine to medium sand 1" Clay	9.0	BE 1.2 HS 10.3
1835		21 / 34	24 / 24			LT. GY LT. GY	2" Clayey to silty fine sand 9" Med to coarse sand		
	122					TO BLACK	with distinct zones black in color, no lignite.		
End Day									
11/12	124								

REMARKS _____

BORING HN 2

PAGE 3

BORING LOG **NUS CORPORATION**

PROJECT: BORING NO.:
PROJECT NO.: DATE: 11/13 DRILLER:
ELEVATION: FIELD GEOLOGIST: Kevin KILMARTIN
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	HNU Elevation (HS - BG) REMARKS
	126						11 ft. of heave at 130'		
	128								
			X					10.2	BG 1.0 HS 11.2
	130	5 / 81				LT. BRN	24" 'Runny' SILT & fine sand with very rare & thin		
0819		100 Ref.	24 / 24			LT. GY	layers of lt. gray clay		Sample settled in jar into a very dense, tightly packed section.
	132								
							borehole 'walked' 4-6 inches. Driller reported hitting something 'hard'		
	134								
	136								
									Silts & fine sands are settling & packing bailer
	138						10 ft. of heave at 140'		just as in sample jar above. Material is fairly clean
									and well sorted.
	140	6 / 16				LT olive brown	22" clean, well sorted, fine to med. sand		
0940		31 / 37	24 / 24			GY	2" clayey silt	10.8	BG 0.4 HS 11.2
	142								
	144						6 ft of heave at 150'		Heave is a very fine grained, uniform sand.
	146								
	148								
	150	14 / 32				LT GY	12" clean, medium sand	10.6	BG 0.4 HS 11.0

REMARKS

BORING HN 25

PAGE 4 : 8

BORING LOG **NUS CORPORATION**

PROJECT: ..... BORING NO.: .....
PROJECT NO.: ..... DATE: 11-13 DRILLER: .....
ELEVATION: ..... FIELD GEOLOGIST: Kevin Kilmartin
WATER LEVEL DATA: .....
(Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
1103		69 / 100	24 / 24			OR-BRN	Fine grained sand with occasional clayey streaks (12")		
	152								
	154						10 ft of heave at 160 ft.		Heave is a very uniform, medium-grained sand, orange-brown in color.
	156								
	158								
	160	6 / 26				LT. BRN	10" Fine to med. sand w/ clay streaks		BG 0.4 HS 9.6
1218		35 / 100	20 / 24			LT. GY to OR-BRN	10" clayey to silty fine sand with several clay layers	9.2	
	162								
	164						5 ft. of heave at 170 ft.		Heave is a light gray, uniform, medium grained sand.
	166								
	168								
	170	16 / 30				DK. GY LT. BN	3" MED SAND 3" SILTY TO fine SAND	8.6	BG 1.0 HS 9.6
1357		56 / 100	8 / 24			LT. GY	2" CLAYEY SILT with minor amounts of fine sand		
	172								Driller noted possible gravel layer: gravel retrieved while bailing heave explains
	174						Spoon "stuck" in formation after sampling, great difficulty in retrieval. (>3 hours)		Stuck spoon and poor recovery ??

REMARKS _____

BORING HN 25

PAGE 5 : 8

BORING LOG — **NUS CORPORATION**

PROJECT: ..... BORING NO.: .....
PROJECT NO.: ..... DATE: ..... DRILLER: .....
ELEVATION: ..... FIELD GEOLOGIST: .....
WATER LEVEL DATA: .....
(Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	HNU elevation (HS - BE) REMARKS
	176								
	178						12 ft of heave at 180 ft.		Heave is a silt and very fine grained sand
	180	8 / 22							
1812		30 / 32	19 / 24			GY TO LT. BRN	14" silty fine sand with some intermixed and discrete clay horizons	8.4	BE 1.0 HS 9.4
END DAY	182								
11/13									
	184								
							4 ft. of heave at 190 feet.		
	186								
	188								
	190	4 / 2				LT. OR-BRN	11" medium to coarse sand	4.0	BE 0.8 HS 4.8
0828		1 / 4	24 / 24			LT. GY	13" medium sand		
	192								
	194						Augers are "spinning easy"		
									Reading of 5 ppm inside the augers.
	196						7 ft. of heave at 200 ft.		No elevated readings outside the augers
							Heave is a very light brown, fine to medium sand.		in the breathing zo
	198								
0930	200	2 / 8				LT. BRN	14" uniform, medium sand	10.2	BG 0.6 HS 10.8

REMARKS _____

BORING HN25

PAGE 6 of 8

BORING LOG **NUS CORPORATION**

PROJECT: ..... BORING NO.: .....
PROJECT NO.: ..... DATE: 11-14-91 DRILLER: .....
ELEVATION: ..... FIELD GEOLOGIST: Kevin Kilmartin
WATER LEVEL DATA: .....
(Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	Hnu Elevation (HS-BG) REMARKS
		20/26	24/24			GY	Silty fine sand with minor amounts of clay		
	202								
	204						5 feet of heave at 210 feet		
	206								
	208								
	210	16/28				LT. GY	18" uniform, medium sand		
1014		56/70	24/24			or-brn to GY	6" very dense & tight silty fine sand with clay streaks	9.0	BE 0.4 HS 9.4
	212								
									Spoon stuck in hole difficulty in retrieving (~15 minutes)
	214								
	216						5 feet of heave at 220 ft.		heave as a lt. gray, uniform, medium to fine sand
	218								
	220	5/6				LT. GY	19" fine to medium sand		
1114		16/18	24/24			LT. GY, BRN, & BLK	5" silty to fine sand with organic or lignitic (?) staining	10.4	BE 0.4 HS 10.8
	222								
	224								

REMARKS _____

BORING HN25

PAGE 7 of 8

BORING LOG **NUS CORPORATION**

PROJECT: ..... BORING NO.: .....
PROJECT NO.: ..... DATE: ..... DRILLER: .....
ELEVATION: ..... FIELD GEOLOGIST: .....
WATER LEVEL DATA: .....
(Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	HNU Elevation (HS - BE) REMARKS
	226						5 ft. of heave at 230 ft.		Heave is a light gray, uniform, medium sand
	228								
	230	10 11				LT GRAY-	FINE-MEDIUM SAND WITH	10.2	BE 0.4 PPM HS 10.6 PPM
1245		18 25	24 / 24			BROWN	SOME SILT HEAVE?		Spoon stuck in hole
	232								Withdraw at 3:00
	234								
	236								
	238								
	240								
	242								
	244								
	246								
	248								
	250								

REMARKS _____

BORING HN25

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LC22

25

GAMMA RAY LOG BY

DELTA WELL
& PUMP CO., INC.
97 Union Avenue P.O. Box 1309
RONKONKOMA, NEW YORK 11779
(516) 981-2255

JOHNSON-KECK GR-73 GAMMA RAY LOGGING SYSTEM

WELL 29D, SITE 3 OWNER NAVY/HALLIBURTON NUS

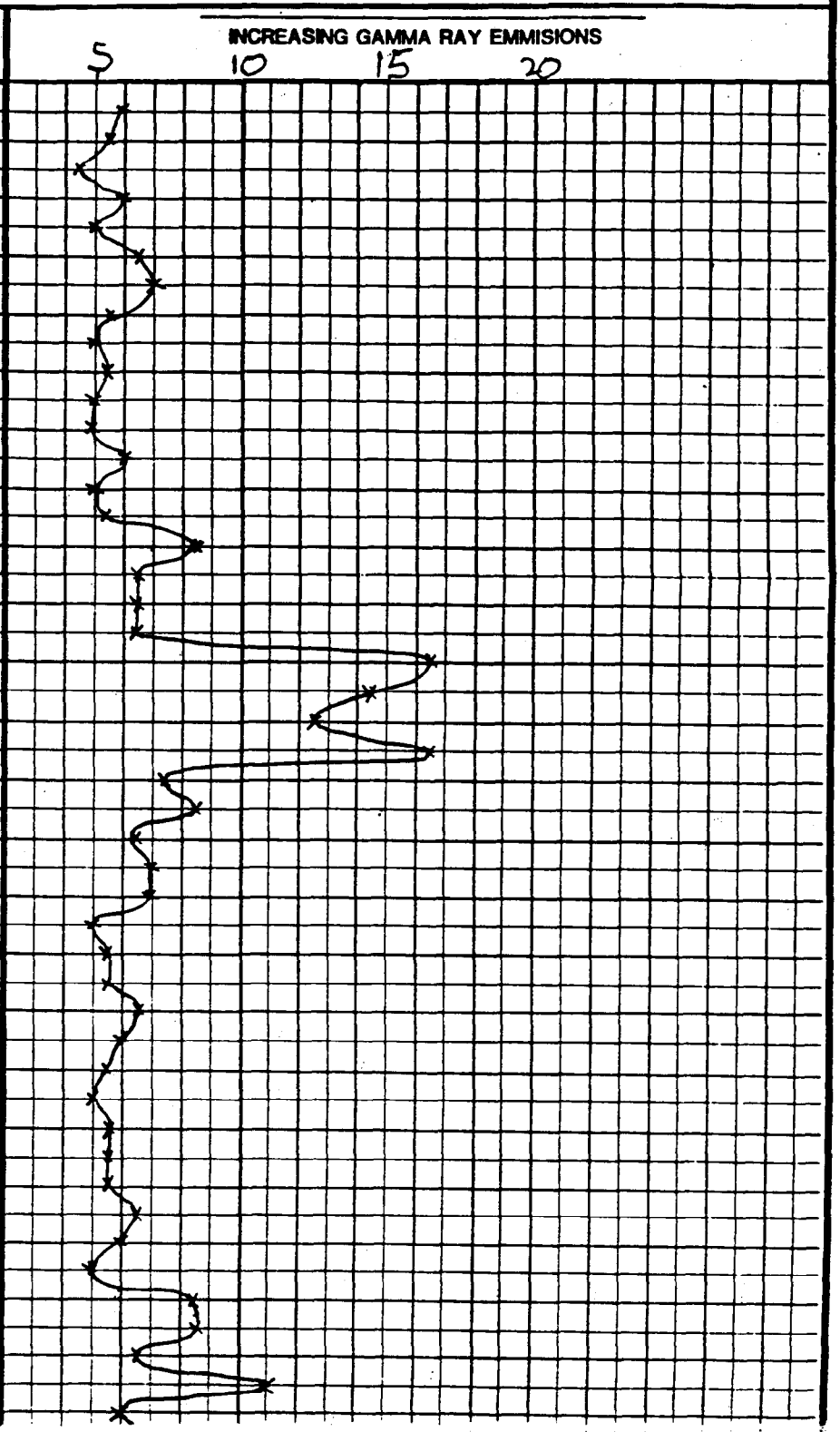
MEASURING POINT grade feet above/below ground level DATE 11-14-91

DRILLER Mr. M. Pellegrino BOREHOLE DEPTH ____ feet, DIAMETER 6 1/4 inches

CASING DEPTH ____ feet, DIAMETER ____ inches OPERATOR Mr. C. Okon

COUNTS SETTING (GR-73) 6M/100 RANGE SETTING (GR-81) ____ TIME CONSTANT (GR-81) ____

SECONDS	DEPTH (FT)	COUNTS PER SECOND
17	50	6
19	52.5	5.5
23	55	4.5
17	57.5	6
20	60	5
16	62.5	6.5
14	65	7
18	67.5	5.5
20	70	5
19	72.5	5.5
20	75	5
21	77.5	5
17	80	6
20	82.5	5
18	85	5.5
12	87.5	8.5
16	90	6.5
15	92.5	6.5
15	95	6.5
6	97.5	16.5
7	100	14.5
8	102.5	12.5
6	105	16.5
13	107.5	7.5
12	110	8.5
16	112.5	6.5
14	115	7
14	117.5	7
20	120	5
18	122.5	5.5
18	125	5.5
16	127.5	6.5
17	130	6
18	132.5	5.5
21	135	5
18	137.5	5.5
18	140	5.5
19	142.5	5.5
16	145	6.5
17	147.5	6
21	150	5
12	152.5	8.5
12	155	8.5
15	157.5	6.5
9	160	11
17	162.5	6



SWL ≈ 50 feet

Borehole logged thru 2 1/4" ID casing.
All depths measured to top of probe. Probe is 18" long.

GAMMA RAY LOG BY

DELTA WELL
& PUMP CO., INC.
97 Union Avenue P.O Box 1309
RONKONKOMA, NEW YORK 11779
(516) 981-2255

JOHNSON-KECK GR-73 GAMMA RAY LOGGING SYSTEM

WELL 29D SITE 3 OWNER _____

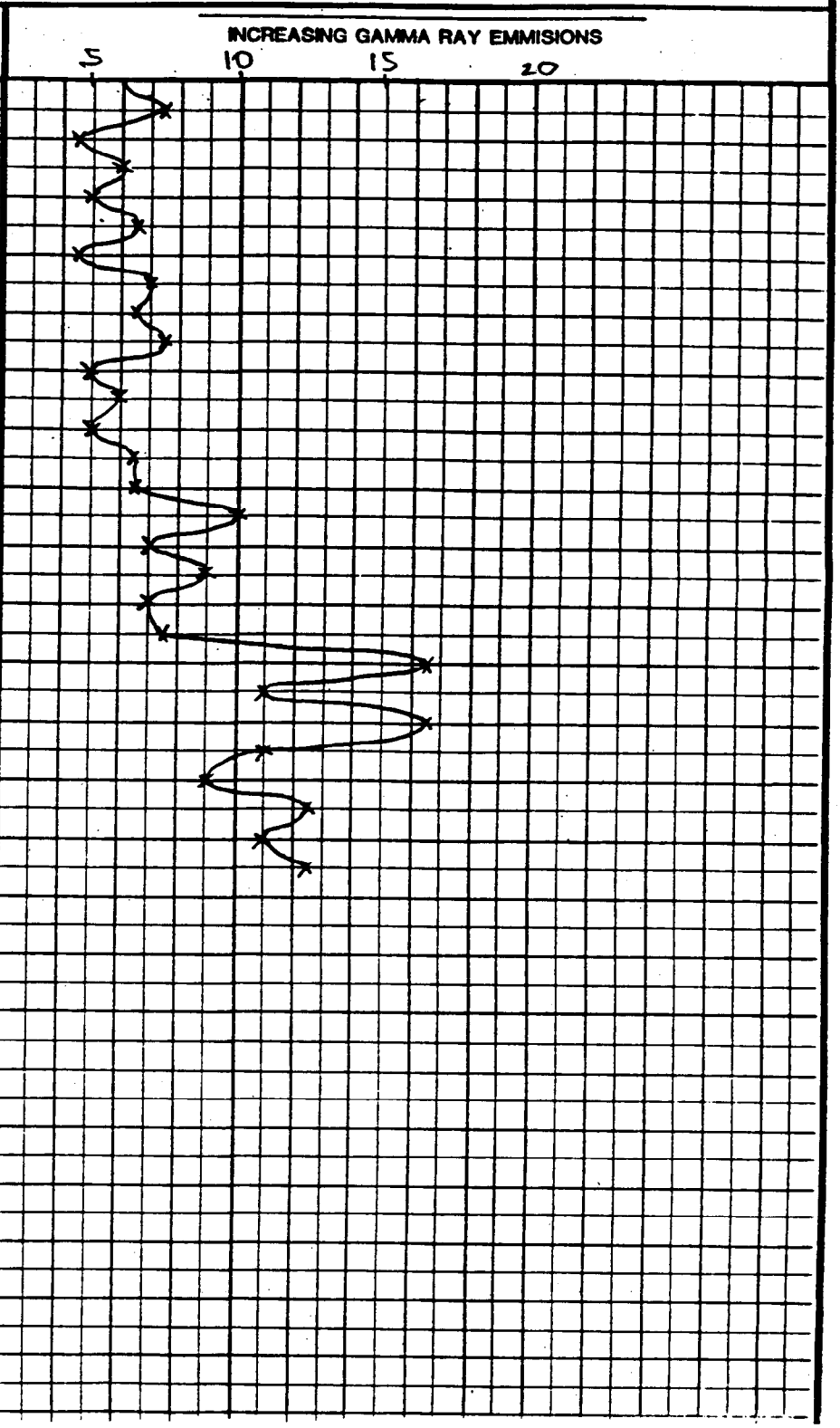
MEASURING POINT _____ feet above/below ground level DATE _____

DRILLER _____ BOREHOLE DEPTH _____ feet, DIAMETER _____ inches

CASING DEPTH _____ feet, DIAMETER _____ inches OPERATOR _____

COUNTS SETTING (GR-73) _____ RANGE SETTING (GR-81) _____ TIME CONSTANT (GR-81) _____

SECONDS	DEPTH (FT)	COUNTS PER SECOND
13	165	7.5
22	167.5	4.5
17	170	6
20	172.5	5
16	175	6.5
23	177.5	4.5
14	180	7
18	182.5	6.5
13	185	7.5
21	187.5	5
17	190	6
20	192.5	5
16	195	6.5
16	197.5	6.5
10	200	10
14	202.5	7
11	205	9
14	207.5	7
13	210	7.5
6	212.5	16.5
9	215	11
6	217.5	16.5
9	220	11
11	222.5	9
8	225	12.5
9	227.5	11
8	230	12.5
	232.5	
	235	
	237.5	
	240	
	242.5	
	245	
	247.5	
	250	



BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE — BORING NO.: HN 26-S
PROJECT NO.: 3281 — DATE: 9-5-91 — DRILLER: BILL
ELEVATION: — FIELD GEOLOGIST: FRED W RAMSER
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
						DARK BROWN	SANDY SILT W/TR GRAVEL		
	2								
						BRN	GRAVELLY SAND W/SILT	SW	GRAVEL ≤ 2" DIA SUBANGULAR
	4								
	6								
	8								
	10								
S-1 0-2.0		12 27							S-1 GRAVELS ARE ≤ 2.0 in OF SUBANGULAR DIA
	12	17 22	1.0 / 2.0		DENSE	LIGHT BRN	FINE TO COARSE SAND WITH GRAVEL TR/SILT	SW	
	14								
S-2 0-2.0	16	[illegible]			DENSE	[illegible]	FINE TO COARSE SAND WITH GRAVEL TR/SILT	SW	[illegible] SIZE PARTICLE GRAVELS ≤ 1.5 IN SUBANGULAR
		32 36	.8 / 2.0						
	18								
							GRAVEL LENS AS NOTED		
	20						BY CUTTING @ ≈18 TO 19 FT		
	22								
	24								
							AS ABOVE S-2		

REMARKS B59 RIG, 6¼" ID HOLLOW STEM AUGER, 140 lb HAMMER [illegible]
FLUSH MOUNT [illegible]
WL @ 46.10' MEASURED @ 1145
WL @ 46' MEASURED @ 1245

BORING HN 26-S

PAGE 1 of 3

BORING LOG — **NUS CORPORATION**

PROJECT: BETH PAGE — BORING NO.: HN 263
PROJECT NO.: 3281 — DATE: 9-5-91 — DRILLER: BILL JESTER
ELEVATION: — FIELD GEOLOGIST: FRED W[illegible]
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
S-3 [illegible]	26	3 / 13			MEDIUM DENSE	LIGHT BRN	MED TO FINE SAND W/SILT	SW/SM	S-3 MOIST [illegible]
		17 / 12	1.8 / 2.0						[illegible] 0.5 TO 2 IN APART BLK SILT [illegible]
	28								
	30								
S-4 10-10		10 / 12			MEDIUM DENSE	LIGHT BRN	MED TO FINE SAND SILT W/CLAYEY SILT LENSES	SM	S-4 [illegible] @31'
	32	9 / 14	1.8 / 2.0						SATURATED @31'
	34								
S-5 [illegible]	36	12 / 30			DENSE	LIGHT BRN [illegible]	TOP [illegible] SILTY CLAY LENS. BOTTOM MED TO [illegible]	SW/SM	S-5 PERCH WATER @ 30' [illegible] TO WATER [illegible]
		34 / 36	2.0 / 2.0			FED TO BRN [illegible]			GRAVEL ≤ 2 in dia
	38								
	40								
S-6 [illegible]		9 / 11							S-6 10-20
	42	14 / 18	1.8 / 2.0		MEDIUM DENSE	[illegible] TAN	TOP - CLAYEY SAND BOTTOM - MED TO FINE SAND TR/FINE GRAVEL	SC/SM	TOP SATURATED [illegible]
	44								
S-7 [illegible]	46	9 / 15			TAN MOTTLED	MEDIUM DENSE	MED TO FINE SAND W/SILT SILTY CLAY LENSES ≈ 10" @ TOP	SW/SC	S-7 MOIST SAND
		17 / [illegible]	1.8 / 2.0		BRN LAYERS				[illegible]
	48								
	50						AS ABOVE		

REMARKS OPERATING WITHOUT HNU, PERCH WATER [illegible] AT 30' [illegible] OF PERCHED WATER AT 41'

BORING HN 26-

PAGE 2 of 3

46 [illegible]

BORING LOG

NUS CORPORATION

PROJECT: BETHPAGE

PROJECT NO.: 3281

DATE: 7-5-91

BORING NO.: HN-26S

DRILLER: BILL

ELEVATION:

FIELD GEOLOGIST: FRED W. [illegible]

WATER LEVEL DATA:

(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
S-3 1455		3 5				LIGHT TAN	BOTTOM 45 COARSE TO FINE SAND W/ FINE GRAVELS		S-3 SATURATED HIT WATER 49'
	52	9 23	2.0 / 2.0		MEDIUM DENSE	LIGHT BROWN	TOP .5" CLAYEY SILT W/ FINE TO MED SAND	SM	SANDS [illegible] WITH ORN LAYERS ≤1" [illegible]
	54								
S-9 1115	56	3 6			DENSE	WHT	FINE TO COARSE SAND	SM	S-9 WITH SILTY [illegible] VEIN, 6" [illegible]
		20 40	2.0 / 2.0						
	58								
	60								
							WATER MEASURED @ 48' @ 1120		
							BOTTOM @ 55'		

REMARKS PVC SCREEN 4" ID, 10' INTERVAL 56' TO 46'

47.5" @ 1138

46' 11" @ 1145

46' 8" @ 1150

BORING HN 26S

PAGE 3 : 3

BORING LOG **NUS CORPORATION**

PROJECT: NWIRP BETHPAGE BORING NO.: HN-26I PILOT
PROJECT NO.: 3281 DATE: 10/28/91 DRILLER: DELTA (Mike Pellegrino)
ELEVATION: FIELD GEOLOGIST: KILMARTIN
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	← HNU Elevation REMARKS
	50	12 / 8				BRN	4" Coarse Sand w/ pebbles	2.8	HNU BACK: 1.4 HNU HS: 4.2
S1 1358		8 / 7	18/24			LT. brn to Grey	14" Medium grained, well-sorted SAND		Lower 18" of spoon wet. All recovery is wet.
	52								Sample warmed in truck before reading.
	54								
	56								Driller reports 5 feet of heave at 60 feet
	58								
	60	16 / 28							
S2 1500		38 / 56	14/24			GY-WT BRN	4" very coarse SAND 10" SILTY to Fine SAND	3.6	HNU BACK: 1.0 HNU HS: 4.6
	62								Sample warmed in truck before reading.
	64								
	66								
	68								
	70	20 / 27						3.4	HNU BACK: 1.4 HNU HS: 4.8
S3 1528		27 / 25	18/24			LT. GY	LT. GY, medium to coarse sand with rare, very thin clay streaks		Sample warmed in truck before reading.
	72								
	74								

REMARKS

BORING HN26I

PAGE 1 : 1

BORING LOG **NUS CORPORATION**

PROJECT: ..... BORING NO.: .....
PROJECT NO.: ..... DATE: ..... DRILLER: .....
ELEVATION: ..... FIELD GEOLOGIST: .....
WATER LEVEL DATA: .....
(Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	← HNU Elevation REMARKS
	76								
	78								
	80	10 / 50							
S4 1604		60 / 72	24/24			GY-BN	24" Grayish-Brown, uniform, Coarse sand	3.4	HNU BACK: 1.8 HNU HS: 5.2
	82								Sample warmed in truck before reading
	84								
	86								
	88								
	90	20 / 30				brn GY	5" Coarse sand 14" SILTY MEDIUM SAND	4.0	HNU BACK: 1.4 HNU HS: 5.4
S5 1650		49 / 52	19/24						Sample warmed in truck before reading
	92								
	94								
	96								
							Driller reports 1 foot		
	98						of heave at 100 feet		

REMARKS _____

BORING HN 26I

PAGE 2 : _____

BORING LOG — **NUS CORPORATION**

PROJECT: ..... BORING NO.: .....
PROJECT NO.: ..... DATE: 10/28 - 10/29 DRILLER: .....
ELEVATION: ..... FIELD GEOLOGIST: KILMARTIN
WATER LEVEL DATA: .....
(Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	← HNU Elevation REMARKS
	100	9 / 22							
S6 1725		30 / 36	22 / 24			GY-bn / GY	4" SILTY CLAY / 6" CLAY	3.6	HNU BACK 1.4 HNU HS 5.0
	102					GY-bn	12" SILTY SAND		Sample warmed — truck before reading
	104								
	106								
	108								
	110	16 / 30				GY-bn / GY-bn	12" Coarse sand / 4" SILTY Clay	3.8	HNU BACK: 1.4 HNU HS. 5.2
S7 1805		35 / 45	24 / 24			GY	8" SILTY SAND		Sample warmed — truck before reading
	112								
	114								
	116								
	118								
6/29									
	120	7 / 27							
S8 0800		37 / 40	3 / 24			BRN	3" MEDIUM SAND	2.4	HNU BACK 1.0 HNU HS 3.4
	122						POOR RECOVERY. TRAP IS		Sample warmed —
							clean. No apparent reason for poor recovery.		truck before reading.
	124						EMPTY SPOON IS "clean" = NOT LOST RECOVERY.		

REMARKS _____

BORING HN26I

PAGE 3 of _____

BORING LOG **NUS CORPORATION**

PROJECT: ..... BORING NO.: .....
PROJECT NO.: ..... DATE: ..... DRILLER: .....
ELEVATION: ..... FIELD GEOLOGIST: .....
WATER LEVEL DATA: .....
(Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	← HNU Elevation REMARKS
	126								
	128								
	130	9 / 15				GY	Coarse sand with very rare and very thin clay streaks	3.2	HNU BACK: 1.2 HNU HS: 4.4
S9 0854		25 / 55	24/24						Sample warmed in truck before reading
	132								
	134								
	136						Driller reports 4 feet of heave at 140 feet.		
	138								
	140	6 / 10							HNU BACK: 1.0 HNU HS: 5.0
S10 1005		46 / 75	12/24			GY	12" coarse sand	4.0	Sample warmed in truck before reading
	142								
	144								
	146								
S11 1053	148	10 / 16				GY	Coarse sand	4.6	HNU BACK: 1.4 HNU HS: 6.0
		20 / 32	19/24						Sample warmed in truck before reading.
	150*								

REMARKS Drillers drilled to 155 feet to provide 5 feet of rathole for gamma log.

* 800 gallons of water added to borehole during drilling.

BORING HN 26 I

PAGE 4 of ____

LC22

GAMMA RAY LOG BY

DELTA WELL
& PUMP CO., INC.
97 Union Avenue P.O. Box 1
RONKONKOMA, NEW YORK 11
(516) 981-2255

JOHNSON-KECK GR-73 GAMMA RAY LOGGING SYSTEM

WELL 26I, SITE 3 OWNER NAVY/HALLIBURTON NUS

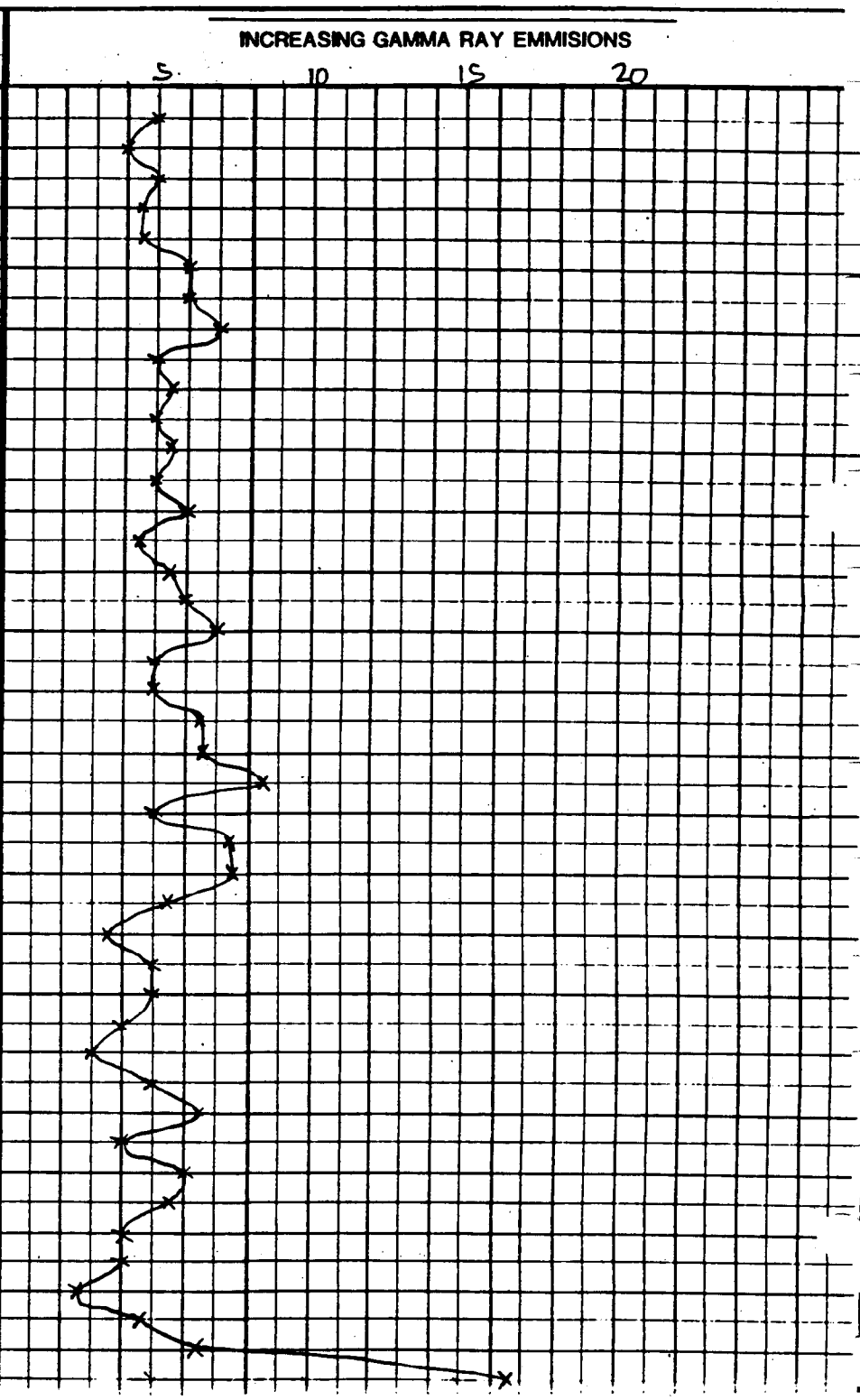
MEASURING POINT grade feet above/below ground level DATE 10-29-91

DRILLER Mr. M. Pellegrino BOREHOLE DEPTH 157.5 feet, DIAMETER ____ inches

CASING DEPTH ____ feet, DIAMETER ____ inches OPERATOR Mr. C. Okon

COUNTS SETTING (GR-73) 6M/100 RANGE SETTING (GR-81) ____ TIME CONSTANT (GR-81) ____

SECONDS	DEPTH (FT)	COUNTS PER SECOND
20	50	5
24	52.5	4
20	55	5
22	57.5	4.5
22	60	4.5
17	62.5	6
17	65	6
14	67.5	7
20	70	5
18	72.5	5.5
21	75	5
18	77.5	5.5
20	80	5
17	82.5	6
23	85	4.5
18	87.5	5.5
17	90	6
14	92.5	7
20	95	5
21	97.5	5
16	100	6.5
15	102.5	6.5
12	105	8.5
20	107.5	5
13	110	7.5
13	112.5	7.5
18	115	5.5
27	117.5	3.5
20	120	5
21	122.5	5
25	125	4
34	127.5	3
21	130	5
15	132.5	6.5
26	135	4
17	137.5	6
19	140	5.5
26	142.5	4
26	145	4
34	147.5	2.5
22	150	4.5
16	152.5	6.5
6	155	16.5



SWL 50'

Borehole logged thru 3¼" ID augers.
All depths measured to top of probe. Probe is 18" long.

BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE — BORING NO.: HN 27-I
PROJECT NO.: 3281 — DATE: 10-31-91 — DRILLER: MIKE & (DELIK)
ELEVATION: — FIELD GEOLOGIST: YUST / KILMARTIN
WATER LEVEL DATA: (Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (Ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
	40.0						SEE BORING LOG HN27-S		H.S. · HEADSPACE
							FOR ABOVE LITHOLOGIES		B.G. · BACKGROUND
	48.0								
S-1 1505		7 / 9			SOFT	BROWN	SANDY CLAY WITH SILT 48-49	CL	S-1 48-50' H.S. 6.8 ppm
	50.0	25 / 30	7.0 / 20		DENSE	TAN WHITE	49-50 SILTY SAND TR CLAY TR GRAVEL	SM	B.G. 1.2 ppm 5.6 ppm ABOVE B.G.
							SAND IS FINE-COARSE GRAINED		
	52.0								
	54.0								
	56.0								
	58.0								
	60.0								
S-2 1818		14 / 15			DENSE	TAN BROWN	FINE-COARSE SAND WITH	SW/SP	S-2 60-62 B.G. 1.6 ppm
	62.0	17 / 30	1.8 / 20				SOME SILT		H.S. 7.4 ppm 5.8 ppm ABOVE B.G.
							SAND IS WELL SORTED		
	64.0								
	66.0								
	68.0								
	70.0								

REMARKS: F-10 R.G. 3¼ INCH I.D. HOLLOW STEM AUGERS. 2" I.D. SPLIT SPOONS TAKEN BY 30" DROP OF 140 lb HAMMER. SAMPLES WERE VARIED IN VAN BEFORE TAKEN WITH HNU

BORING HN27-I

PAGE 1 of 5

BORING LOG **NUS CORPORATION**

PROJECT: BETHPAGE BORING NO.: HN 27-5
PROJECT NO.: 3201 DATE: 11-1-91 DRILLER: MIKE F (DELTA)
ELEVATION: FIELD GEOLOGIST: YOST / KILMARTIN
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
S-3 RSZ		16 / 53			V. DENSE	WHITE-LT GRAY	SILTY SAND. SAND IS	SM	S-3 70-72' P.G - 1.8
	72.0	45 / 43	10 / 20				V. FINE - FINE		H.S. - 7.0 5.2 FEET ABOVE P.G
	74.0								
	76.0								
	78.0								
	80.0								
S-4 DSDM		8 / 17			DENSE	TAN-BROWN GRAY	SILTY SAND TO CLAY	CM	S-4 80-82' P.G - 3.0
	82.0	21 / 31	19 / 20				SAND IS V.F. TO FINE		H.S - 5.7 4.9 FEET ABOVE P.G
	84.0								
	86.0								
	88.0								
	90.0								
S-5 DSDM		16 / 27			DENSE	TAN-BROWN	SILTY SAND TO CLAY	SM	S-5 90-92' P.G - 1.7 FEET
	92.0	27 / 27	19 / 20			GRAY	LENSES. SILT TO FINE - FINE WITH TRACE		H.S - 7.8 FEET 6.6 FEET ABOVE P.G
	94.0								

REMARKS SAMPLES WERE WATER [illegible] TAKEN [illegible]

BORING HN27-5

PAGE 2 of 5

BORING LOG **NUS CORPORATION**

PROJECT: BETHPAGE BORING NO.: HN27 I
PROJECT NO.: 3281 DATE: 11-1-91 DRILLER: MIKE F. (DELTA)
ELEVATION: FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	96.0								
	98.0								
	100.0								
S-6 2912		19 32			V. DENSE	TAN-BROWN	SILTY SAND TR CLAY LIGNITE	SM	S-6 100-102 BG 0.8 PPM
	102.0	35 53	2.0 / 2.0			GRAY	LENSES. SAND IS V. FINE-MEDIUM GRAINED CONTAINS MICA FLAKES		HS 2.1 PPM 7.3 PPM ABOVE BG
	104.0								
	106.0						SILTY SAND IN CUTTINGS		
	108.0								
	110.0								
S-7 [illegible]		25 34			[illegible]	[illegible]	SILTY SAND TR CLAY LIGNITE	M	S-7 110-[illegible] BG 1.0
	112.0	53 34	[illegible] / [illegible]			BROWN-GRAY	LENSES SAND IS V. FINE-MEDIUM GRAINED		HS 7.7 6.7 PPM ABOVE BG
									TOP [illegible] SAMPLE [illegible] TO BE HEAVE
	114.0								
	116.0						CUTTINGS [illegible] TAN BROWN SILTY SAND		
	118.0								
	120.0								

REMARKS ALL SAMPLES [illegible] HEATED IN VAN BEFORE BEING SCANNED WITH HNU

BORING HN27-I

PAGE 3 of 5

BORING LOG **NUS CORPORATION**

PROJECT: BETH PAGE BORING NO.: HN 77-5
PROJECT NO.: 3281 DATE: 11-1-91 DRILLER: MIKE P. (DELTA)
ELEVATION: FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
S-8 1055		12 / 18			V. DENSE	MOTTLED TAN BROWN	SILTY FINE SAND TR CLAY	SM	S-8 120-122 B.G. 1.6 PPM
	122	27 / 38	1.0 / 2.0			GRAY-RED	LIGNITE LENSES SAND & FINE - VERY FINE - POORLY GRADED		H.S. 6.4 PPM 5.4 PPM ABOVE B.G.
									COLOR IS MOTTLED AND LAMINATED FROM BROWN - RED-GRAY
	124						CONTINUES - BROWN SILTY		THERE WAS [illegible] TOP [illegible]
							SAND		
	126								
	128								
	130								
S-9 1135		9 / 20			DENSE	MOTTLED TAN-BROWN	SILTY SAND TR - SOME CLAY	SM	S-9 130-132 B.G. 1.2 PPM
	132	27 / 31	1.7 / 2.0			RED-GRAY	SAND VERY FINE - MEDIUM		H.S. 6.6 PPM 5.4 PPM ABOVE B.G.
							PER COLOR IN SAND RANGES		[illegible]
	134						FROM LIGHT GRAY RED		
	136								
	138								
	140								
S-10 1228		15 / 31			DENSE	MOTTLED TAN-BROWN	SILTY SAND TR CLAY	SM	S-10 140-142 B.G. - 1 PPM
	142	31 / 47	1.8 / 2.0			RED-GRAY			H.S. 6.4 PPM 5.4 PPM ABOVE B.G.
	144								

REMARKS ALL [illegible] WARMER IN CAP [illegible] WITH HNU

BORING HN 77

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BORING LOG **NUS CORPORATION**

PROJECT: BETH PAGE BORING NO.: HN77-I
PROJECT NO.: 328 DATE: 11-1-91 DRILLER: MIKE F (DELTA)
ELEVATION: FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	146								
	148								
2-10 1400		23 24			DENSE	RED	SILTY SAND TR CLAY	SM	[illegible] 148-150 [illegible]
	150	10 6	20/20				SAND IS FINE - MEDIUM		H.S [illegible] PPM 5.4 PPM ABOVE B.E

REMARKS SAMPLE WAS HEATED IN VAN BEFORE BEING SCREENED WITH HNU

BORING HN77-I

PAGE 5 of 5

LC22

GAMMA RAY LOG BY

DELTA WELL
& PUMP CO., INC.
97 Union Avenue P.O. Box 1309
RONKONKOMA, NEW YORK 11779
(516) 981-2255

JOHNSON-KECK GR-73 GAMMA RAY LOGGING SYSTEM

WELL 27 I, Site OWNER NAVY/Halliburton NUS

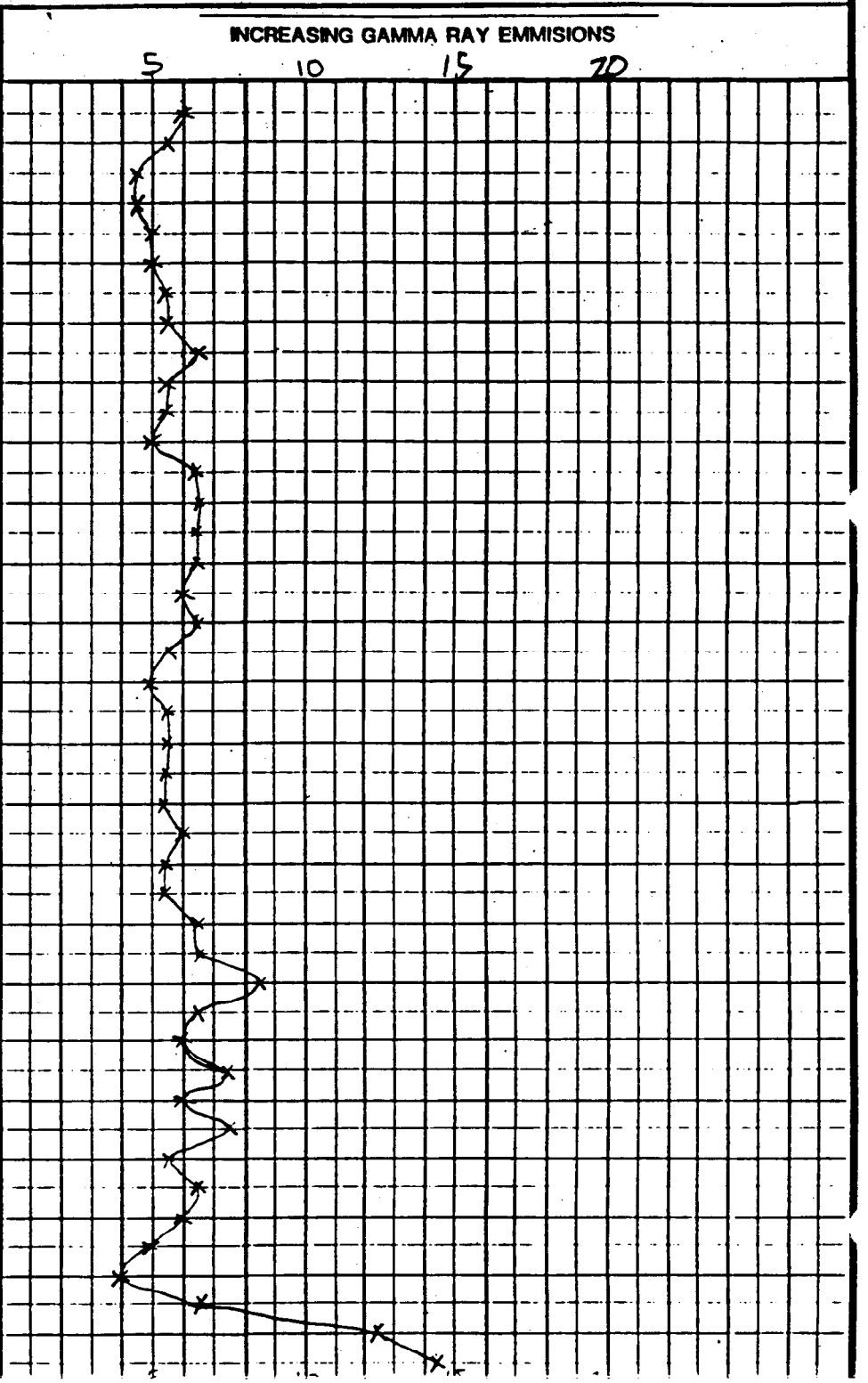
MEASURING POINT 0 feet above/below ground level DATE 11-1-91

DRILLER Mr. M. Pellegrino BOREHOLE DEPTH 156.5 feet, DIAMETER 6 inches

CASING DEPTH ____ feet, DIAMETER ____ inches OPERATOR Mr. C. Okon

COUNTS SETTING (GR-73) GM/100 RANGE SETTING (GR-81) ____ TIME CONSTANT (GR-81) ____

SECONDS	DEPTH (FT)	COUNTS PER SECOND
17	50	6
18	52.5	5.5
23	55	4.5
23	57.5	4.5
20	60	5
21	62.5	5
18	65	5.5
18	67.5	5.5
16	70	6.5
19	72.5	5.5
19	75	5.5
20	77.5	5
16	80	6.5
16	82.5	6.5
16	85	6.5
16	87.5	6.5
17	90	6
15	92.5	6.5
18	95	5.5
21	97.5	5
19	100	5.5
19	102.5	5.5
19	105	5.5
18	107.5	5.5
17	110	6
19	112.5	5.5
18	115	5.5
16	117.5	6.5
16	120	6.5
12	122.5	8.5
16	125	6.5
17	127.5	6
13	130	7.5
17	132.5	6
13	135	7.5
19	137.5	5.5
15	140	6.5
17	142.5	6
20	145	5
24	147.5	4
16	150	6.5
8	152.5	12.5
7	155	14.5



SWL ≈ 46 feet

Borehole logged through 3¼" ID augers.
All depths measured to top of probe. Probe is 18" long.

BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE
PROJECT NO.: 3281
ELEVATION:
WATER LEVEL DATA:
(Date, Time & Conditions)

DATE: 9-3-91
FIELD GEOLOGIST: D. YOST

BORING NO.: HN28-S
DRILLER: UTD JAY

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS (HNU)
	0.0					DARK BROWN	SANDY SOIL		
	2.0					BROWN	SANDY SILT w/SOME GRAVEL		
	4.0								
1055 S-2	6.0	5 / 7 / 8 / 6	1.8 / 2.0		MED DENSE	BROWN	FINE TO COARSE SAND w/SOME SILT TR GRAVEL	SW	S-1, GRAVEL SUBROUNDED (8.2 ppm) DAMP
	8.0								
	10.0								
1110 S-2		10 / 15 / 17 / 14	2.0 / 2.0		DENSE	BROWN	FINE TO COARSE SAND w/SOME SILT & SOME GRAVEL	SW	S-2, GRAVEL SUBROUNDED (1.2 ppm)
	12.0								
	14.0								
1120 S-3	16.0	2 / 8 / 10 / 10	1.8 / 2.0		MED DENSE	BROWN	GRAVELLY FINE TO COARSE SAND w/TR SILT	SW/GC	S-3 GRAVEL .5 to 1.5" dia SUBROUNDED MOIST (1.8 ppm)
	18.0								
	20.0								
	22.0								
	24.0								
							AS ABOVE		

REMARKS 2' I.D. SPOON FOR LITHOLOGICAL SAMPLES, 6¼ I.D. HOLLOW STEM AUGERS
CME 75 RIG 140 lb HAMMER DROPPED 30"

BORING HN28-S

PAGE 1 : 3

BORING LOG **NUS CORPORATION**

PROJECT: BETHPAGE BORING NO.: HN28-S
PROJECT NO.: 3261 DATE: 9-3-91 DRILLER: UTD JAT
ELEVATION: FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS (HNU)
S-4 11.30	26.0	2 / 7				LIGHT BRN	BOTTOM .75 FT IS MED TO FINE SAND TR/SILT TOP .75 FT IS GRAVELLY COARSE TO FINE SAND TR/SILT	SW/BC	S-4 3.0ppm MARKS A GRAVEL ZONE - DAMP
		7 / 10	1.5 / 2.0						* OUT OF GRAVEL AS THE [illegible]
	28.0								
	30.0								
S-5 11.40		5 / 9							S-5
	32.0	8 / 9	1.5 / 2.0			MOTTLED TAN + LIGHT BRN	FINE TO COARSE SAND W/SOME GRAVEL	SW	TR BLACK FINES, GRAVEL WELL ROUNDED <1 inch. SLIGHTLY MOIST 3.5ppm
	34.0								
S-6 11.50	36.0	11 / 16				MOTTLED LIGHT BR [illegible]	BOTTOM 10" LAYERED MED TO FINE SAND/SOME SILT TOP 8" FINE TO COARSE SAND/SOME SILT/TR GRAVEL	SW	S-6 2.8ppm MOIST
		20 / 24	1.6 / 2.0						
	38.0								
	40.0								
S-7 12.00		10 / 18				MOTTLED WHT + [illegible]	MED TO FINE SAND TR SILT	SW	S-7 1.1ppm MOIST
	42.0	30 / 25	1.8 / 2.0						
	44.0								
	46.0	12 / 14							
S-8 12.07		16 / 20	1.8 / 2.0			MOTTLED TAN + RED	MED TO FINE SAND	SW	S-8 1.4ppm HIT SATURATED @ 46.5
	48.0								
	50.0						AS ABOVE		

REMARKS

BORING HN28-S

PAGE 2 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: BETH PAGE — BORING NO.: HN-28 S
PROJECT NO.: 3781 — DATE: 9-3-91 — DRILLER: U.T.D. JAY
ELEVATION: — FIELD GEOLOGIST: FRED W. RAMSER
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CLASS	REMARKS HNU
S-9 1220		14 / 10					AS ABOVE		S-9
	52	18 / 26	2.0 / 2.0		MEDIUM DENSE	TAN TO BROWN	MED TO FINE SAND W/CLAY LENS (TWO)	SW	LENS @ 3" THICK + 6" THICK (1/4 SATURATED
	54			54.0					
	56								
	58								
	60								
							BOTTOM OF HOLE @ 54'		
							WL LEVEL @ 46'		

REMARKS PVC SCREEN SET @ 44' TO 55'

BORING HN-28S

PAGE 3 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE
PROJECT NO.: 3281
DATE: 11-6-91
BORING NO.: HN28-1
DRILLER: MIKE P. (DELTA)
ELEVATION:
FIELD GEOLOGIST: Kevin Kilmartin / Dave Jost
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (FT.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	BOREHOLE CONDITIONS	← Elevated HNU (Headspace-background) REMARKS
S-1 1330		18 / 28				BRN / BRN	8" coarse sand & pebbles / 6" saturated brown coarse sand		B.G. BACKGROUND / H.S. HEADSPACE
	52.0	18 / 31	2.0 / 2.0			LT. GREY TO BUFF	10" well sorted, coarse to very coarse sand	11.6	S-1 50-52 / B.G. 0.4 / H.S. 12.0
	54.0								
	56.0								
	58.0								
	60.0								
S-2 1400		31 / 21					very coarse sand with some fine to medium, rounded		S-2 60-62 / B.G. 0.3
	62.0	27 / 20	1.8 / 2.0			LT. BRN TO GREY	gravel in lower 6 inches.	13.0	H.S. 13.3
	64.0								
	66.0								
	68.0						APPROXIMATELY 4 feet of heave at 70 feet.		
	70.0								
S-3 1445		11 / 51							S-3 70-72 / B.G. 0.4
	72.0	32 / 25	1.8 / 2.0			LT. BRN TO GREY	LITHOLOGY AS ABOVE. VERY COARSE SAND; NO pebbles.	13.2	H.S. 13.6
	74.0								

REMARKS: F-10 R.G. 3¾ INCH ID HSA 140 lb HAMMER DROPPED 30" FOR 2" ID. SPLIT SPOON SAMPLES

BORING HN28-1

PAGE 1 of 4

BORING LOG **NUS CORPORATION**

PROJECT: BETHPAGE BORING NO.: HN28-I
PROJECT NO.: 3281 DATE: DRILLER: MIKE P. (DELTA)
ELEVATION: FIELD GEOLOGIST:
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	← Elevated HNU (Headspace - background) REMARKS
	76								
	78								
	80								
S-4 1518		18 / 23				LT. BRN TO GRAY	14" very coarse sand		S-4 80-82' B.G 0.8
	82	25 / 31	1.8 / 2.0			MOTTLED GRAY, BRN, & RED-BRN	4" Clay to silt to clayey, silty sand	12.2	H.S 13.0 12.2 PPM ABOVE B.G.
	84								
	86								
	88								
	90								
S-5 1552		7 / 19				BRN	18" coarse to v. coarse sand		S-5 90-92' B.G - 0.4
	92	19 / 40	2.0 / 2.0			BRN TO GRAY	6" coarse brn. sand with grayish clay streaks.	11.4	H.S - 11.8 11.4 PPM ABOVE B.G
	94								
	96								
	98								
	100								

REMARKS

BORING HN28-I

PAGE 2 of 4

BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE
PROJECT NO.: 3281 DATE: 11-6-91
ELEVATION:
WATER LEVEL DATA:
(Date, Time & Conditions)

BORING NO.: HN 28-I
DRILLER: MIKE P. (DELTA)
FIELD GEOLOGIST:

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCKS BROKENESS	Elevated HNU (Headspace - background) REMARKS
S-6 1635		10 / 14				BRN	4" MED TO COARSE SAND		S-6 100-102' B.6 - 1.4
	107	24 / 34	1.8 / 2.0			BLACK	14" EXTREMELY STIFF & DENSE COHESIVE CLAY	9.4	H.S. - 10.8 9.4 PPM ABOVE B.6.
	104						DRILLER REPORTS "EASIER" DRILLING AT ± 103 FEET, MAY BE BASE OF CLAY.		
	106						?		
	108								
	110								
S-7 1725		9 / 26				BLACK	14" EXTREMELY STIFF & DENSE COHESIVE CLAY	6.8	S-7 110-112' B6 - 2.8
	112	31 / 31	1.9 / 2.0			BEGE TO BUFF	6" VERY COARSE, WELL-SORTED SAND		H.S - 9.6 6.8PPM ABOVE B.6
	114								
	116								
							Driller reports 6 feet of heave at 120 feet.		
	118								
	120								
S-8 1815		10 / 16				LT. TO DK GY	14" FINE TO VERY COARSE SAND (FINING UPWARD)	9.3	S-8 120-122' B.6 0.3
	122	16 / 30	2.0 / 2.0			GY TO BRN	10" GREY TO BROWN TO REDDISH BROWN CLAY, SILT, AND CLAYEY SAND. CLAY IS VERY PLASTIC & STICKY, AS OPPOSED TO BLACK CLAY ABOVE. ENTIRE 10" INTERVAL IS CLAYEY TO SOME EXTENT.		H.S 9.6 9.3 PPM ABOVE B.6
END DAY 11/6	124								

REMARKS

BORING HN28-I

PAGE 3 of 4

BORING LOG **NUS CORPORATION**

PROJECT: BETHPAGE BORING NO.: HN28-I
PROJECT NO.: 3281 DATE: 11-7-91 DRILLER: MIKE P. (DELTA)
ELEVATION: FIELD GEOLOGIST:
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	ELEVATED HNU (HEADSPACE - background) REMARKS
11/7	126						Driller reports 3 feet of		
							heave at 130 feet.		
	128								
	130								
S-9 0812		6 / 19				BLK BRN	6" STAINED ?? MEDIUM SAND 2" Fine SAND		S-9 130-132 B.G. - 1.0
	132	33 / 50	1.9 / 2.0			GRY GRY	2" very stiky & plastic clay 5" SILTY CLAY & fine SAND	11.2	H.S. - 12.2 11.2 PPM ABOVE B.G.
						Brn, red, red-brown	7" BANDED SILTY CLAY, SILT, and SILTY or CLAYEY fine SAND		
	134								
	136								
							Driller reports 2 feet of heave at 140 feet. Heave is a dark gray		
	138						to very dk. gray silt to very fine sand		
	140								
S-10		12 / 30				DK GY	8" CLAYEY TO SILTY FINE SAND		S-10 140-142' B.G. 0.6
0905	142	56 / 100	2.0 / 2.0			GY, red, & reddish brown	14" BANDED & LAYERED CLAYS AND CLAYEY SILTS AND SILTY CLAYS.	10.6	H.S. 11.2 10.6 PPM ABOVE B.G.
	144								
	146						Heave is a dark brown to grey, very fine silt to sand		
							(possible through connections?)		
	148								
S-11		18 / 47				DARK GRAY	12": Fine to medium sand with streaks of dk. gray to blk. clay	10.4	S-11 148-150' B.G. - 0.6
1005	150	94 / 100	2.0 / 2.0			LIGHT GRAY	12": Fine to medium sand with streaks of reddish-brown staining		H.S. - 11.0 10.4 PPM ABOVE B.G.

REMARKS Drilled 5' of rathole (to 155) for GAMMA log.
Driller reported 12 feet of heave at 155.
Heave is the same medium sand found at base of 148-150 spoon.
Approx. 600 gallons H_2O (total) were added to borehole to control heave.

BORING HN28-I

PAGE 4 of 4

LC22

GAMMA RAY LOG BY

DELTA WELL
& PUMP CO., INC.
97 Union Avenue P O Box 1309
RONKONKOMA, NEW YORK 11779
(516) 981-2255

JOHNSON-KECK GR-73 GAMMA RAY LOGGING SYSTEM

WELL 28 I, SITE 1 OWNER NAVY/HALLIBURTON NUS

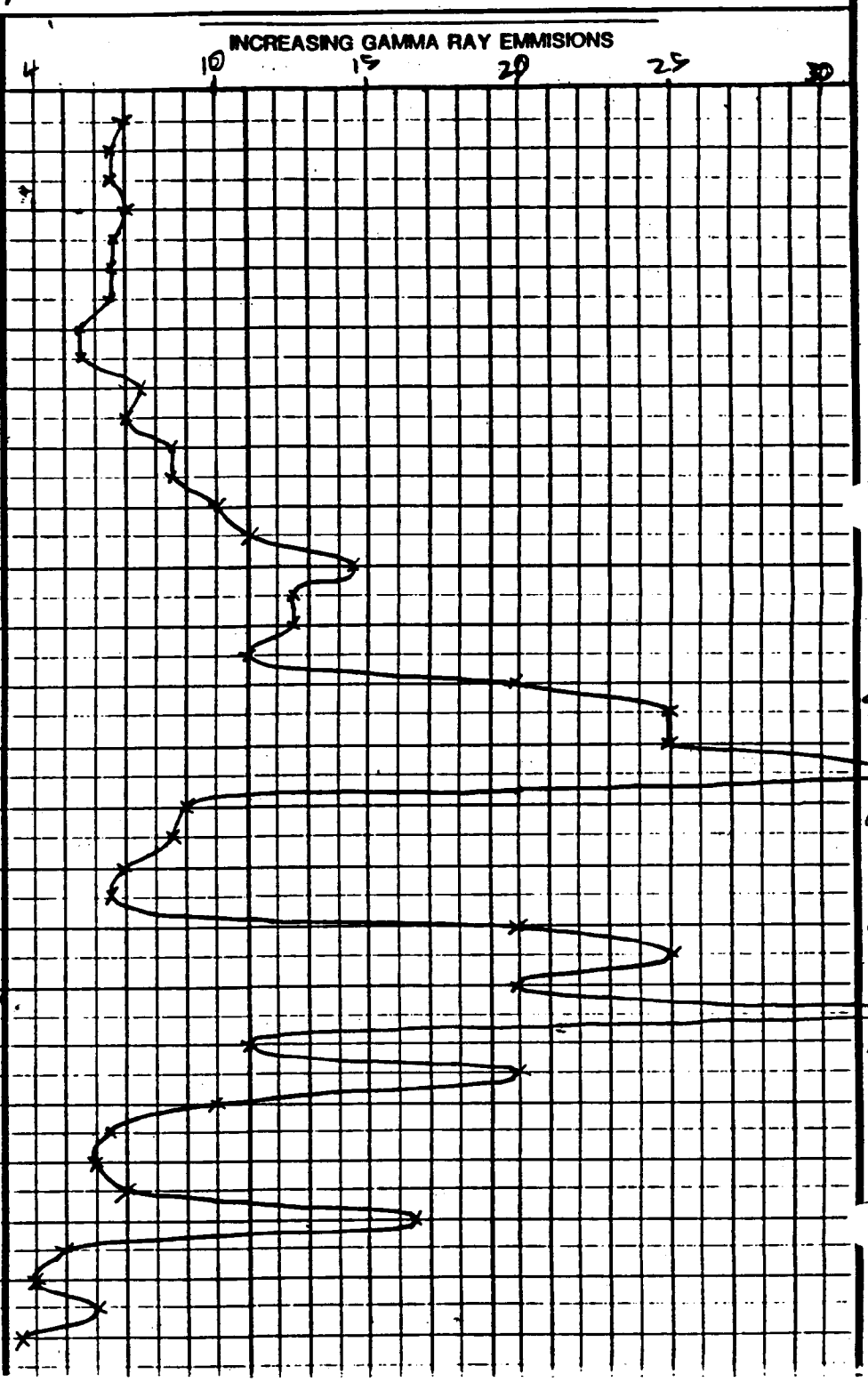
MEASURING POINT 0 feet above/below ground level DATE 11-7-91

DRILLER Mr. M. Pellegrino BOREHOLE DEPTH 154 feet, DIAMETER 6¼ inches

CASING DEPTH ____ feet, DIAMETER ____ inches OPERATOR Mr. G. Okon

COUNTS SETTING (GR-73) GM/100 RANGE SETTING (GR-81) ____ TIME CONSTANT (GR-81) ____

counts per SECONDS	DEPTH (FT)	COUNTS PER SECONDS
7	50	14
6.5	52.5	15
6.5	55	16
7	57.5	14
6.5	60	15
6.5	62.5	16
6.5	65	16
5.5	67.5	18
5.5	70	18
7.5	72.5	13
7	75	14
8.5	77.5	12
8.5	80	12
10	82.5	10
11	85	9
14.5	87.5	7
12.5	90	8
12.5	92.5	8
11	95	9
20	97.5	5
25	100	4
25	102.5	4
33	105	3
9	107.5	11
8.5	110	12
7	112.5	14
6.5	115	15
20	117.5	5
25	120	4
20	122.5	5
33	125	3
11	127.5	9
20	130	5
10	132.5	10
6.5	135	15
6	137.5	17
7	140	14
16.5	142.5	6
5	145	21
4	147.5	24
6	150	17
3.5	152.5	29



SWLS 48 feet

Borehole logged through 3¼" ID augers.
All depths measured to top of probe. Probe is 18" long.

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP BETHPAGE — BORING NO.: HN29-S
PROJECT NO.: 3281 — DATE: 9-4-91 — DRILLER: JAY FRECK (UNITEC)
ELEVATION: — FIELD GEOLOGIST: FRED W. RAMSER
WATER LEVEL DATA: (Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS (HNU)
						D. BROWN TO BLK			1' THICK HUMUS MIXED
	2					BROWN	SAND W/GRAVEL		FINE TO COARSE SAND. GRAVEL: ≤ 1.5" dia.
	4								
	6								
	8								
	10								
S-1 10:30		7 7			MEDIUM DENSE	BRN	FINE TO COARSE SAND W/GRAVEL	SW	S-1 [illegible]
	12	10 10	1.5 / 2.0						NEGOCIIND DOWN
	14								
S-2 10:40	16	15 11			DENSE		AS ABOVE	SW	S-2 NO RECOVERY MAY HAVE HIT BIG BOULDER OR UNCLE GRAVEL
		27 20	0.0 / 2.0						
	18								
	20								
	22								
	24								
							AS ABOVE	SW	

REMARKS: RIG CME-75 HSA 6¼" ID. USING 2" SPLIT SPOON SAMPLER. 140lb HAMMER DROPPED 30" FOR 2" I.D SPLIT SPOON SAMPLES. SAMPLES TAKEN FOR LITHOLOGICAL PURPOSES.

BORING HN29-S

PAGE 1 of 2

BORING LOG **NUS CORPORATION**

PROJECT: BETHPAGE BORING NO.: HN 29-5
PROJECT NO.: 3281 DATE: 09-04-91 DRILLER: JAY FRECK (UNITEC)
ELEVATION: FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR BROKENESS	REMARKS
	26.0	4 / 6				TAN-			
S-3 1050		9 / 8	2.0 / 2.0		MEDIUM DENSE	BROWN-WHITE	FINE-MEDIUM SAND TR-SOME SILT ~15%	SM	S-3 25-27 DAMP-MOIST
	28.0						TR GRAVEL		0.4 ppm-HNU - DONT KNOW IF WORKING PROPER.
	30.0								
		9 / 15		30.5		TAN WHITE	FINE-MEDIUM SAND SOME SILT AND CLAY	SM	GRAY CLAY LENSES ~ 0.2' THICK FROM 30.5-31.5
S-4 1058	32.0	10 / 9	2.0 / 2.0	31.5	MEDIUM DENSE	GRAY ORANGE	FINE-COARSE SAND	SM/SW	S-4 30-32 DAMP-MOIST
									2 ppm-HNU
	34.0								
						GRAY			
	36.0	6 / 13		35.5	MEDIUM STIFF	BROWN GRAY	CLAY SOME SILT TR V. FINE SAND	CL	
S-5 1111		13 / 21	2.0 / 2.0	36.5	DENSE	ORANGE TAN	FINE-COARSE SAND	SW	S-5 35-37 0.2 ppm-HNU
	38.0								DAMP-SLIGHTLY MOIST
	40.0			40.0		BROWN GRAY	SANDY GRAVELLY CLAY SOME SILT	CL	CLAY-40-41'
		7 / 9		41.0	SOFT		FINE MEDIUM SAND	SW/SM	SATURATION-41'
S-6 1121	42.0	9 / 15	2.0 / 2.0		MEDIUM DENSE	TAN-WHITE	FINE MEDIUM SAND	SW	S-6 40-42 SATURATED
									0 ppm-HNU
	44.0								
				45.0					
	46.0	5 / 7		45.5	MEDIUM	GRAY TAN-	CLAY TR SILT FINE COARSE SAND	CL SW	
S-7 1132		10 / 14	2.0 / 2.0		DENSE	ORANGE			S-6 45-47 SATURATED
	48.0								0 ppm-HNU
				49.0					
	50.0						BOTM 49.0		

REMARKS WELL TO BE SCREENED 39-49
SATURATION - 41'

BORING HN 29-5

PAGE 2 : 2

BORING LOG **NUS CORPORATION**

PROJECT: NWIRP BethPage BORING NO.: HN 29 PiLOT
PROJECT NO.: 3281 DATE: 11-22-91 DRILLER: DeLTA (Mike P)
ELEVATION: FIELD GEOLOGIST: Kevin KiLMARTIN
WATER LEVEL DATA:
(Date, Time & Conditions) RAINY, very humid

TIME / SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	HNU Elevation (HS - BG) REMARKS HS = HEADSPACE BG = BACKGROUND
	50	25 / 20				or-brn	6" probable auger plug material (gravel) not sampled	24.2	BG 1.8 HS 26
1028		23 / 30	22 / 24			buff	16" uniform, coarse sand		
	52								
	54								
	56								
	58								
	60	5 / 4				Tan to	15" clean, medium sand	45.2	BG 4.8 HS 50
1140		5 / 10	15 / 22			or-brn to lt brn			
	62								
	64								
	66								
	68								
	70	6 / 14				GY	6" CLAY	0.4	BG 0.2 HS 0.6 (new HNU)
		14 / 24	15 / 24			GY	9" SILTY CLAY		
	72								
	74								

REMARKS

BORING HN29

PAGE 1 of 8

BORING LOG **NUS CORPORATION**

PROJECT: BORING NO.:
PROJECT NO.: DATE: DRILLER:
ELEVATION: FIELD GEOLOGIST:
WATER LEVEL DATA :
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CODE	REMARKS
							5 ft of heave at		
	76						80 ft		
	78								
	80	10/4							
1355		15/25	19/24			or-brn	19" uniform, medium sand		BG 1.4 HS 220 (OLD HNU) (6608)
	82								
	84								
	86						4 ft of heave at 90 ft		
	88								
	90	2/7				LT. GY	17" coarse sand		BG 3 HS 600 6608
		7/16	14/24			LT. BN	2" med to coarse sand		BG 0.2 HS 0.4 6614
	92								
	94								
	96								
	98								

REMARKS

BORING HN29

PAGE 2 of 8

BORING LOG — **NUS CORPORATION**

PROJECT: ..... BORING NO.: .....
PROJECT NO.: ..... DATE: ..... DRILLER: .....
ELEVATION: ..... FIELD GEOLOGIST: .....
WATER LEVEL DATA: .....
(Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	BORE HOLE CONDITIONS	REMARKS
	100	10/16					5" SILTY Clay.		BG 0.2 HS 0.4 6608
1505		25/35	24/24			GY	19" EXTREMELY DENSE and HARD CLAY		BG 4 HS 820 6614
	102								
	104								
	106								
	108	20/29				GY TO	19" interbedded CLAY, SILTY Clay, and		BG 1.2 HS 2000 6608
1550		25/26	19/24			LT BN	fine Sand.		BG 0.2 HS 0.4 6614
	110								
	112			should be 110'-112'. KK.					
							3 ft of heave at 120 ft		
	114								
	116								
	118								
	120	4/21				LT-BRN	7" Fine SAND		BG 0.4 HS 130 6608
1620		23/23	23/24			LT. BRN & GRAY	16" Thin-bedded clayey SILTS		BG 0.2 HS 0.4 6614
	122								
	124								

REMARKS _____

BORING HN29

PAGE 3 : 8

BORING LOG — **NUS CORPORATION**

PROJECT: ..... BORING NO.: .....
PROJECT NO.: ..... DATE: ..... DRILLER: .....
ELEVATION: ..... FIELD GEOLOGIST: .....
WATER LEVEL DATA: .....
(Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CLASS	REMARKS
							3.5 ft of heave at 130 ft		
	126								
	128								
	130	7/21				GY	18" Dominantly soft, sticky gray clay with		
1700		29/33	18/24			LT. Brn	a few thin (<2") interbeds of silty clay.		BG 2.0 HS 2.3 6608
	132								BG 0.2 HS 0.4 6614
	134						6" of heave at 140 ft (inclos)		
	136								
	138								
	140	17/25				Red, brn	19" Interbedded silty fine sand, silt, silty clay, and clay.		BG 0.6 HS 2.0 6608
1740		36/25	19/24			Grey	Dominantly fine-grained interval.		BG 0.2 HS 0.4 6614
	142								
	144						5 feet of heave at 150'.		
							Driller feels section is		
	146						getting sandier.		
							Heave is a silty, very		
	148						fine sand with clay.		

REMARKS _____

BORING HN29

PAGE 4 of 8

BORING LOG — **NUS CORPORATION**

PROJECT: BORING NO.:
PROJECT NO.: DATE: 11/22 to 11/23 DRILLER:
ELEVATION: FIELD GEOLOGIST:
WATER LEVEL DATA :
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (FT.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	UNCONSOLIDATED / ROCK	REMARKS
	150	21 / 67				GY	15" Fine SAND		0.2 / 8.8 6608
1628		100 / REF.	24/24			GY	5" CLAY & SILTY CLAY		0.2 / 6.3 6614
END DAY	152					Yellow	5" Fine SAND		
11/22									
	154						6 feet of heave at 166 ft,		Heave is a silt & extremely fine-grained sand.
	156								
	158								
	160	14 / 21				LT BRN	12" Fine-MEDIUM SAND - probable heave		HS 0.8 / BG 0.6 6614
0910		27 / 42	22/24			GY	12" CLAY, SILTY CLAY, CLAYEY SILT		
	162								
	164						3 feet of heave at 170 ft		heave is a light brown silt and very fine grained sand.
	166								
	168								
	170	5 / 14				LT. BRN	14" FINE-MEDIUM SAND. heave?		HS 0.8 / BG 0.6
0955		16 / 21	24/24			LT. BRN & GY	10" Interlayered Fine to MEDIUM SAND AND CLAYEY fine SAND,		
	172								
	174								

REMARKS

BORING HN29

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BORING LOG — **NUS CORPORATION**

PROJECT: ..... BORING NO.: .....
PROJECT NO.: ..... DATE: ..... DRILLER: .....
ELEVATION: ..... FIELD GEOLOGIST: .....
WATER LEVEL DATA: .....
(Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CONDITIONS	REMARKS
							12 ft of heave at 180 ft		Heave is a light gray silt and very fine grained sand
	176								
	178								
	180	5 / 8				LT. TAN	18" MEDIUM SAND; probable heave		
1108		24 / 166	24 / 24			RD, GY, & MUSTARD YELLOW	6" INTERLAYERED FINE TO MEDIUM SANDS AND SILTY FINE SANDS WITH SOME CLAY		BG 0.4 HS 0.5
	182								
	184						5 ft. of heave at 190 ft.		Heave is a light tan, fine to medium sand with from the water. bright reddish-brown color.
	186								
	188								
	190	7 / 13				LT. TN GY	14" MEDIUM SAND; probable heave .5" CLAYEY SILT		BG 0.3 HS 0.4
1145		19 / 24	24 / 24			GY	5" CLAYEY fine sand		
	192								
	194								
							5 ft. of heave at 200 ft.		Heave is a light brown silt and very fine grained sand.
	196								
	198								

REMARKS _____

BORING HW29

PAGE 6 of 8

BORING LOG **NUS CORPORATION**

PROJECT: ..... BORING NO.: .....
PROJECT NO.: ..... DATE: ..... DRILLER: .....
ELEVATION: ..... FIELD GEOLOGIST: .....
WATER LEVEL DATA: .....
(Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	200	9 / 10				GY & YEL-BN	8" CLAYEY & SILTY fine sand		BG 0.3 HS 0.4 6614
1228		32 / 36	8 / 24				Middle of spoon is 'split-open' with ~ 1/4-1/8" GAP		BG 1.4 HS 13.8 6608
	202								
							6 ft. of heave at 220 ft.		Heave is mostly a silt with some very fine grained sand.
	204								
	206								
	208								
	210	7 / 7				LT. BN	22" MEDIUM TO fine sand		BG 0.2 HS 0.4 6614
1402		9 / 30	24 / 24			GY TO LT. BN	2" SILTY fine sand		BG 0.8 HS 14.2 6608
	212						This sample may entirely be heave, although bailer was at total depth after bailing heave.		
	214								
							11 feet of heave at 220 ft.		Heave is a light gray, fine to medium sand that is generally coarser in nature than any seen over last ±150 feet
	216								
	218								
	220					LT. GY	24" Clean, well-sorted, medium-grained sand		BG 0.3 HS 0.4 6614
1455			24 / 24						BG 1.8 HS 12.6 6608
	222								
END DAY 11/24									
	224								

REMARKS Blow counts not recorded at 220 (spoon stuck), KCK observed they were low for top 6" and relatively high for last 18"

BORING HN 29

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BORING LOG **NUS CORPORATION**

PROJECT: ..... BORING NO.: .....
PROJECT NO.: ..... DATE: ..... DRILLER: .....
ELEVATION: ..... FIELD GEOLOGIST: .....
WATER LEVEL DATA: .....
(Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
11/25							Drilled to 230 feet and bailed well. No further samples		
	226						to be taken as per NAVY & NYSDEC		
							(see notebook 2159).		
	228						Drilled to 250 feet. 15 feet of heave entered		
							augers between 230 and		
	230						250 feet (1140 a.m.)		
	232								
	234								
	236								
	238								
	240								
	242								
	246								
	248								
	250								

REMARKS Approximately 700 gallons H_2O used in drilling of pilot hole & installation of well

BORING HN29

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LC22

GAMMA RAY LOG BY

DELTA WELL
& PUMP CO., INC.
97 Union Avenue P.O. Box 1309
RONKONKOMA, NEW YORK 11779
(516) 981-2255

JOHNSON-KECK GR-73 GAMMA RAY LOGGING SYSTEM

WELL 29D, SITE 1 OWNER NAVY/HALLIBURTON NUS

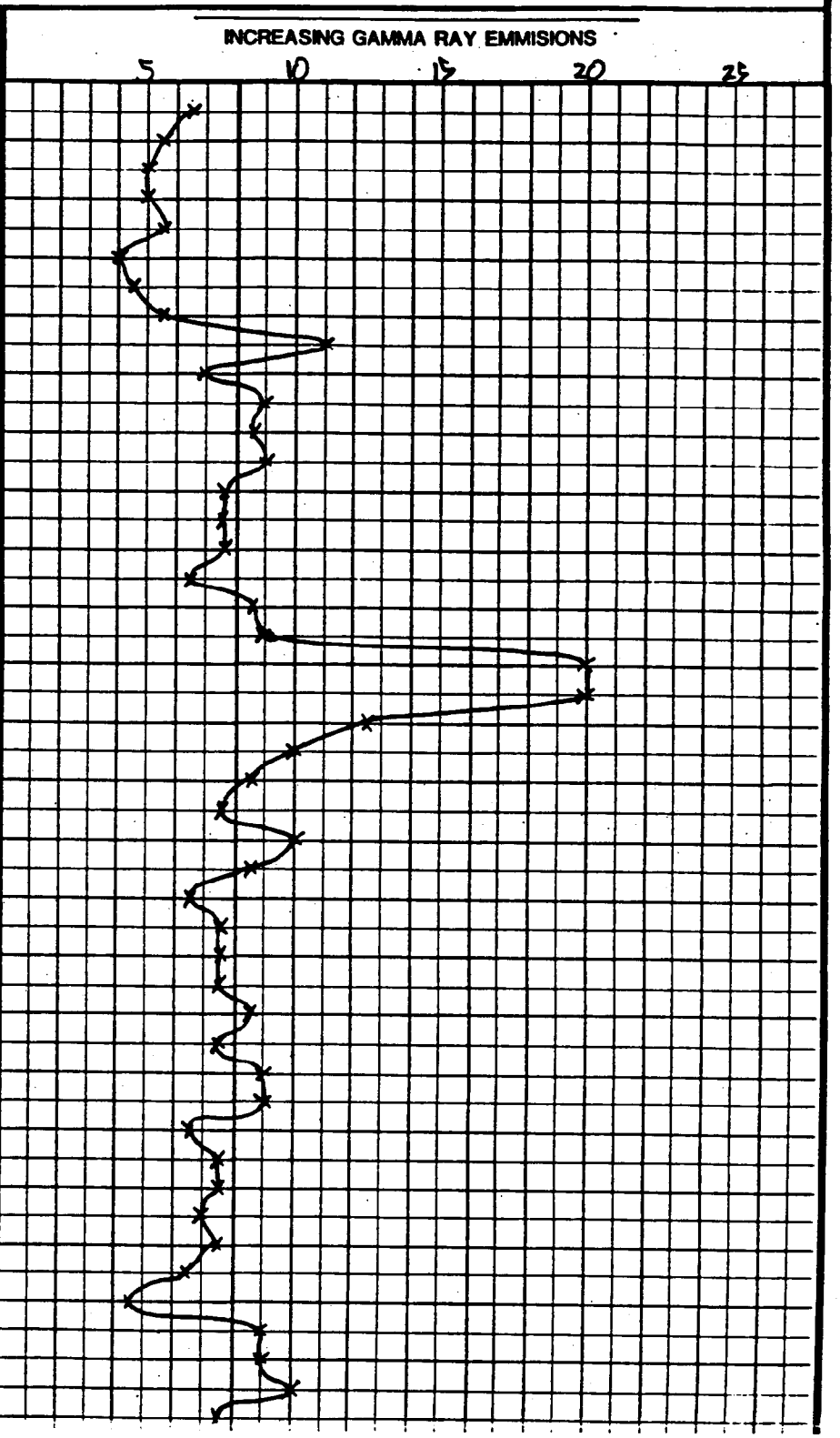
MEASURING POINT GRADE feet above/below ground level DATE 11-25-91

DRILLER Mr. M. Pellegrino BOREHOLE DEPTH 151.5 feet, DIAMETER 6 1/4 inches

CASING DEPTH ____ feet, DIAMETER ____ inches OPERATOR Mr. C. Okon

COUNTS SETTING (GR-73) GM/100 RANGE SETTING (GR-81) ____ TIME CONSTANT (GR-81) ____

SECONDS	DEPTH (FT)	COUNTS PER SECOND
15	50	6.5
19	52.5	5.5
20	55	5
20	57.5	5
19	60	5.5
24	62.5	4
23	65	4.5
18	67.5	5.5
9	70	11
14	72.5	7
11	75	9
12	77.5	8.5
11	80	9
13	82.5	7.5
13	85	7.5
13	87.5	7.5
15	90	6.5
12	92.5	8.5
11	95	9
5	97.5	20
5	100	20
8	102.5	12.5
10	105	10
12	107.5	8.5
13	110	7.5
10	112.5	10
12	115	8.5
15	117.5	6.5
13	120	7.5
13	122.5	7.5
13	125	7.5
12	127.5	8.5
13	130	7.5
11	132.5	9
11	135	9
15	137.5	6.5
13	140	7.5
13	142.5	7.5
14	145	7
13	147.5	7.5
15	150	6.5
22	152.5	4.5
11	155	9
11	157.5	9
10	160	10
13	162.5	7.5



Borehole logged thru 3 1/4" ID augers.
All depths measured to top of probe. Probe is 18" long.
SWL = 48'

LC22

GAMMA RAY LOG BY

DELTA WELL
& PUMP CO., INC.
97 Union Avenue P.O. Box 1309
RONKONKOMA, NEW YORK 11779
(516) 981-2255

JOHNSON-KECK GR-73 GAMMA RAY LOGGING SYSTEM

WELL 29D, SITE 7 OWNER NAVY/HALLIBURTON NUS

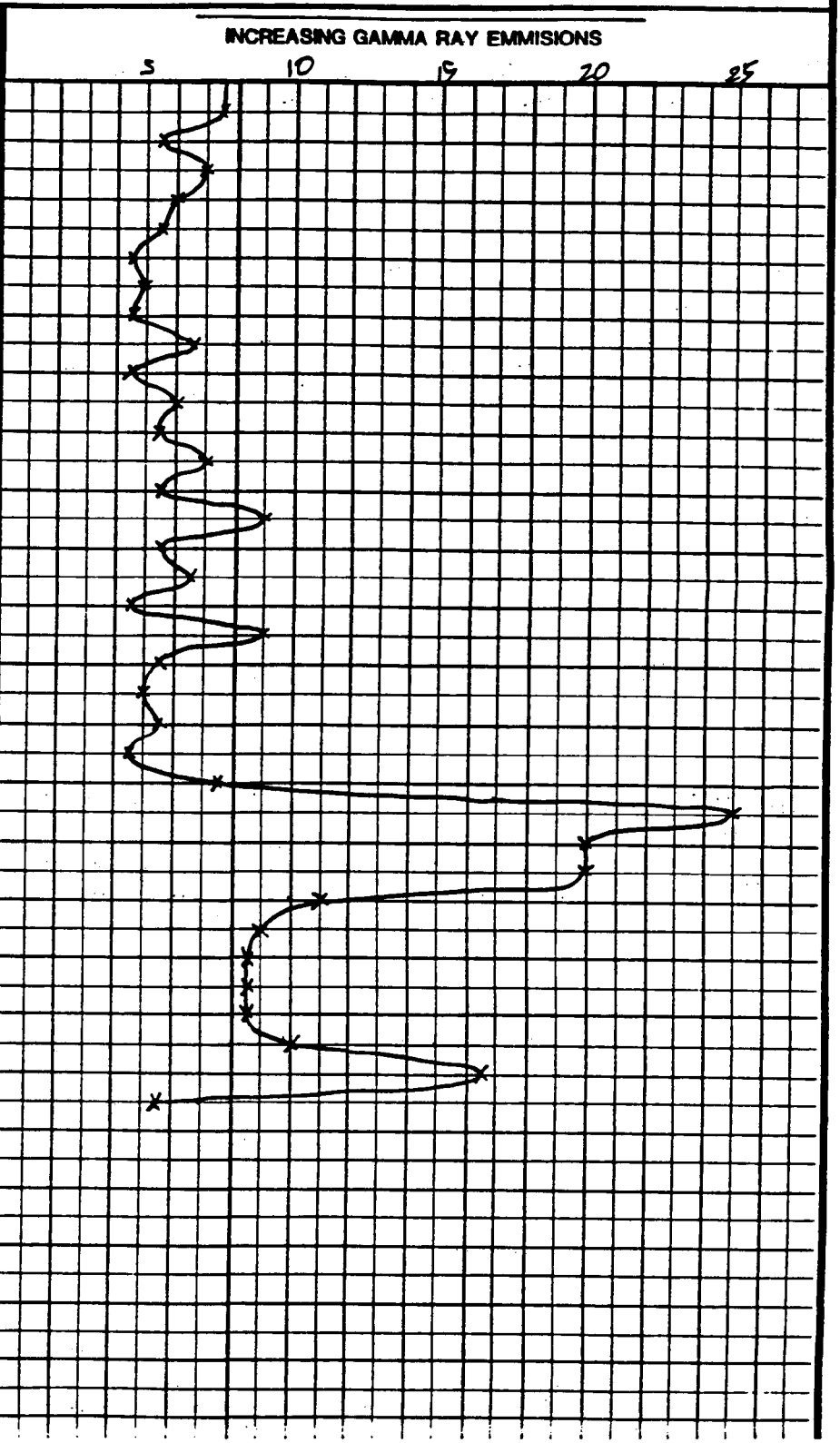
MEASURING POINT grade feet above/below ground level DATE 11-25-91

DRILLER Mr. M Pellegrino BOREHOLE DEPTH 251.5 feet, DIAMETER 6 1/4 inches

CASING DEPTH ____ feet, DIAMETER ____ inches OPERATOR Mr. C. Okon

COUNTS SETTING (GR-73) GM/100 RANGE SETTING (GR-81) ____ TIME CONSTANT (GR-81) ____

SECONDS	DEPTH (FT)	COUNTS PER SECOND
13	165	7.5
19	167.5	5.5
14	170	7
17	172.5	6
18	175	5.5
22	177.5	4.5
20	180	5
23	182.5	4.5
16	185	6.5
23	187.5	4.5
17	190	6
18	192.5	5.5
14	195	7
19	197.5	5.5
11	200	9
19	202.5	5.5
15	205	6.5
22	207.5	4.5
11	210	9
19	212.5	5.5
20	215	5
18	217.5	5.5
22	220	4.5
13	222.5	7.5
4	225	25
5	227.5	20
5	230	20
9	232.5	11
11	235	9
12	237.5	8.5
12	240	8.5
12	242.5	8.5
10	245	10
6	247.5	16.5
19	250	5.5



BORING LOG — **NUS CORPORATION**

PROJECT: NWIRA BETHPAGE — BORING NO.: HN 30-S
PROJECT NO.: 3281 — DATE: 9-04-91 — DRILLER: JAY FLECK (UNITEC)
ELEVATION: — FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
	0.0			1.0		BROWN	SILT, SAND TR GRAVELS, ORGANICS		~ 1' THICK
	2.0					REDDISH BROWN	SAND AND GRAVEL. SAND IS FINE-COARSE. GRAVEL IS SUBROUNDED < 1"		
	4.0								
	6.0								
	8.0								
	10.0								
		31 / 18							
S-1 1636	12.0	19 / 21	0.4 / 2.0		MEDIUM DENSE	REDDISH BROWN	SAND AND GRAVEL AS ABOVE	SW	S-1 10-12 POOR RECOVERY DUE TO GRAVELS. SAMPLE NOT REPRESENTATIVE. DESCRIPTIONS FROM CUTTINGS AT THIS POINT
	14.0								
	16.0	4 / 5					FINE-COARSE SAND AND FINE-SUBROUNDED GRAVEL < 1/2" DIAMETER	SW	
S-2 1636		7 / 9	1.0 / 2.0		MEDIUM DENSE	REDDISH BROWN			S-2 15-17' HNU - NA DAMP
	18.0								
	20.0								
	22.0								
	24.0								

REMARKS CME 75 R.G. 3¼" I.D. H.S.A. 140 lb HAMMER DROPPED 30" FOR 2" I.D. SPLIT SPOON SAMPLES

BORING HN 30-S

PAGE 1 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: SETH PAGE
PROJECT NO.: 3281
ELEVATION:
WATER LEVEL DATA:
(Date, Time & Conditions)
DATE: 9-04-91
FIELD GEOLOGIST: D. Yost
BORING NO.: HN 30-5
DRILLER: JAY FLECK (UNITEC)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS CODE	REMARKS
	26.0	8 / 10					FINE-COARSE SAND AND FINE		
S-3 1646		10 / 16	1.0 / 2.0		MEDIUM DENSE	REDDISH BROWN	SUBROUNDED GRAVEL. TR BROWN SILT	SW	S-3 25-27' 3.5 PPM HNU
	28.0								DAMP. SLIGHTLY MOIST
	30.0								
		5 / 8					FINE-MEDIUM SAND SOME		
S-4 1652	32.0	8 / 7	1.6 / 2.0		MEDIUM DENSE	BROWN-WHITE	SILT TR FINE SUBROUNDED GRAVEL	SW	S-4 30-32 DAMP
	34.0								HNU N-6614 DOES NOT APPEAR TO BE WORKING PROPERLY
	36.0	7 / 8				TAN-	FINE-COARSE SAND TR GRAVEL *	SW	* - TRACE OF FINE BROWN LAMINATIONS OF HEMAT-AND
S-5 1706		11 / 12	1.7 / 2.0		MEDIUM DENSE	WHITE	FINE SAND TR GRAVEL. SILT-(3.5')	SW/SM	S-5 35-37' 2 PPM-HNU
	38.0								DAMP
	40.0								
		7 / 9				TAN-	FINE MEDIUM SAND SOME		
S-6 1708	42.0	10 / 10	1.0 / 2.0		MEDIUM DENSE	WHITE	FINE SUBROUNDED GRAVEL <½"	SW	S-6 40-42 DAMP
	44.0								9 PPM HNU - QUESTIONABLE!
	46.0	5 / 12				WHITE	FINE-MEDIUM SAND TR		
S-7 1720		17 / 19	1.6 / 2.0		MEDIUM DENSE	TAN	SILT TR U-FINE GRAVEL IN BOTTOM 3' OF SPOON	SW/SM	S-7 45-47 DAMP
	48.0								15 PPM HNU - QUESTIONABLE
									EPPM ON HNU WHEN PROBE PLACED INSIDE AUGERS
	50.0								

REMARKS

BORING HN 30-5

PAGE 2 of 3

BORING LOG **NUS CORPORATION**

PROJECT: BETHPAGE BORING NO: HN 30-S
PROJECT NO.: 3281 DATE: 9-04-91 DRILLER: JAY FLECK (UNITEC)
ELEVATION: FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
		12 / 22				BROWN	SAND		WATER 49- DRILLER
S-8 1730	52.0	30 / 32	0.4 / 2.0		V. STIFF	PINK	CLAY THICKNESS UNKNOWN	SM / CH	S-8 - 50-52 SATURATED
									HNU - N.A. POOR RECOVERY
	54.0								
	56.0	4 / 9					FINE-COARSE SAND SOME	SM	PINK CLAY LENS 55.4 - 55.6 TO GRAY CLAY AT BOTTOM
S-9 1747		12 / 16	2.0 / 2.0	57.0	MEDIUM DENSE	BROWN TAN	SILT TO CLAY	SM	S-9 55-57 OF SPOON SATURATED
	58.0								20PPM HNU QUESTIONABLE
	60.0								
							BOTM 57.0		

REMARKS WELL TO BE SCREENED 47-57'
0-2' SPOONS

BORING HN 30-S

PAGE 3 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE - NWIRP
PROJECT NO.: 3281
DATE: 10/18
BORING NO.: HN30I - PILOT
DRILLER: DELTA : Mike
ELEVATION:
FIELD GEOLOGIST: Kilmartin / YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	TIME ~~LITHOLOGY CHANGE (DEPTH, ft.) OR SCREENED INTERVAL~~	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	DRILLING RESISTANCE	← HNu elevation (reading - background) REMARKS
2" OD	50	10 / 11		0858	~~CLAY~~	LT. BRN	4" Sticky clay w/ some black (organic staining)		HNu back 1.3 ppm Headspace 13.0 ppm.
		15 / 23	22 / 24		SAND	LT. BRN	18" Fine to med. sand.	11.7	Sample warmed in truck before reading.
	52								
	54						Cuttings: generally		
							orange-brown medium		
	56						to coarse-grained sand.		
	58								
	60	15 / 34		0937	SAND w/	LT Brn	Med. to very course grained sand w/ pebbles		HNu back 1.0 Headspace 14.2
		36 / 42	24 / 24		gravel	to Buff	Throughout	13.2	Sample warmed truck before reading
	62								
	64						Cuttings: generally		
							orange-brown to brown,		
	66						medium to very course-grained		
							sand with pebbles up to 2 to 2.5 inches in size.		
	68								
							1 ft. of heave at 70 ft.		
	70	14 / 8		1045	SAND	GY to Buff	8" medium sand		HNu back 0.4 HNu Headspace 14.8
		10 / 20	16 / 24		CLAY	LT. BRN	8" cohesive, sticky silty clay	14.4	
	72						Driller reported 6 ft of		
							heave after clay was penetrated		
	74								

REMARKS

BORING HN 30I / PILO

PAGE 1 of 6

BORING LOG — **NUS CORPORATION**

PROJECT: ..... BORING NO.: .....
PROJECT NO.: ..... DATE: ..... DRILLER: .....
ELEVATION: ..... FIELD GEOLOGIST: .....
WATER LEVEL DATA: .....
(Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	HNU READING (reading - background)	REMARKS (← HNU elevation)
							Cuttings generally brown,		
	76						medium to very coarse-grained sand.		
	78								
	80	7 / 6		1110		Lt. Tan to Buff	6": Medium to coarse sand		BACK 0.4
		10 / 15	24/24			Gray to Greenish Gray	18" very sticky & cohesive & plastic silty clay to clay	14.4	HEADSPACE 14.8 Sample warmed in
	82								Truck before reading
	84						Cuttings a general mix		
							of coarse sand & plastic clay.		
	86								
	88								
	90	11 / 42		1142		Gray to Greenish Gray	3" sticky silty clay		BACK 0.4
		73 / 73	12/24				9" Medium grained sand.	10.8	HEADSPACE 11.2 Sample warmed in
	92								Truck before reading
							Cuttings a general mix		
	94						of coarse sand & plastic clay		
	96								
	98						Driller reports approximately		Heaving sand is a yellowish-Tan, medium
							5 ft. of heave at 100 ft.		grained sand

REMARKS _____

BORING HN 30 I Pilot

PAGE 7 : 6

BORING LOG **NUS CORPORATION**

PROJECT: BETHPAGE BORING NO.: HN 30 - I
PROJECT NO.: 3281 DATE: 10-18-91 DRILLER: MIKE (DELTA)
ELEVATION: FIELD GEOLOGIST: KILMARTIN / YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	Time ~~LITHOLOGY CHANGE (Depth/ft.) OR SCREENED INTERVAL~~	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	← HNU elevation (reading - background) REMARKS
	100	11 / 8		1301		TAN TO LIGHT	21": MEDIUM GRAINED SAND		HNU BACK 0.2 HEADSPACE 12.6
		15 / 18	23 / 24			BROWN / GRAY	2": STICKY, SILTY CLAY	12.4	Sampled warmed in sun.
	102								
							Cuttings generally a		
	104						MEDIUM SAND WITH SOME CLAY		
	106								
	108								
	110	8 / 18				LT. GRAY / or-brn	10" MEDIUM-GRAINED SAND / 11" MEDIUM-COARSE GRN. SAND		HNU back 0.2 Headspace 9.2
		24 / 26	23 / 24	1340		black	2" BLACK-(STAINED?) MEDIUM GRAIN SAND	9.0	Sample warmed in sun.
	112								
							Cuttings generally a		
	114						STICKY MIXTURE OF		
							MEDIUM SAND & CLAY		
	116								
							Approx. 3 ft. of heave at 120 ft.		Heaving sand is a LT. TAN, MED. GRND SAND
	118								
	120	12 / 20				GRAY TO	GRAY TO light brown,		HNU back } * SAMPLE JAR HEADSPACE } Shattered - NO
		21 / 58				Light Brown	fine TO MOSTLY MEDIUM GRAINED SAND		reading could be obtained.
	122		24 / 24	1425					Sample warmed in sun
	124								

REMARKS

BORING HN 30S

PAGE 3 of 6

BORING LOG **NUS CORPORATION**

PROJECT: ..... BORING NO.: .....
PROJECT NO.: ..... DATE: ..... DRILLER: .....
ELEVATION: ..... FIELD GEOLOGIST: .....
WATER LEVEL DATA: .....
(Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	~~LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL~~ Time	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS BROKENESS	← HNU Elevation (reading-background) REMARKS
							Cuttings generally a mixture of fine to		
	126						medium sand with some clay		
							Approximately 4 ft. of		
	128						heave at 130 ft.		
	130	15 / 25		1510		Whitish to	Whitish to light brown,		HNU Back 0.2 Headspace 9.4
		40 / 58	16 / 24			Light Brown	mostly medium to coarse grained sand.	9.2	Sample warmed in sun.
	132								
	134						Cuttings generally a mixture of brown,		
							medium-grained sand with some clay		
	136								
	138						7 ft. of heave at 140 ft.		
	140	15 / 25		1608		Med. Gray to	Mostly fine to a medium-grained sand.		HNU Back 0.2 Headspace 8.4
		45 / 70	16 / 24			Lt. Brown		8.2	Sample warmed in the sun.
	142								
							Cuttings generally a		
	144						medium-grained sand		
	146								
	148	6 / 9		1702		Lt. Gray	very uniform, medium	10.0	HNU Back 0.2 Headspace 10.2
		12 / 18					to coarse-grained sand		
	150+								

REMARKS Last sample taken at 8' interval (148-150) rather than 10'. Then drilled to 150', drilled to 155', sand heaved to 148'. Heaving sand was the same, Lt. gray sand.

BORING HN30I PILOT

PAGE 4 : 6

LC22

GAMMA RAY LOG BY

JOHNSON-KECK GR-73 / GR-81 GAMMA RAY LOGGING SYSTEM

WELL #1 Intermediate - Site OWNER NAVY/HALLIBURTON NUS

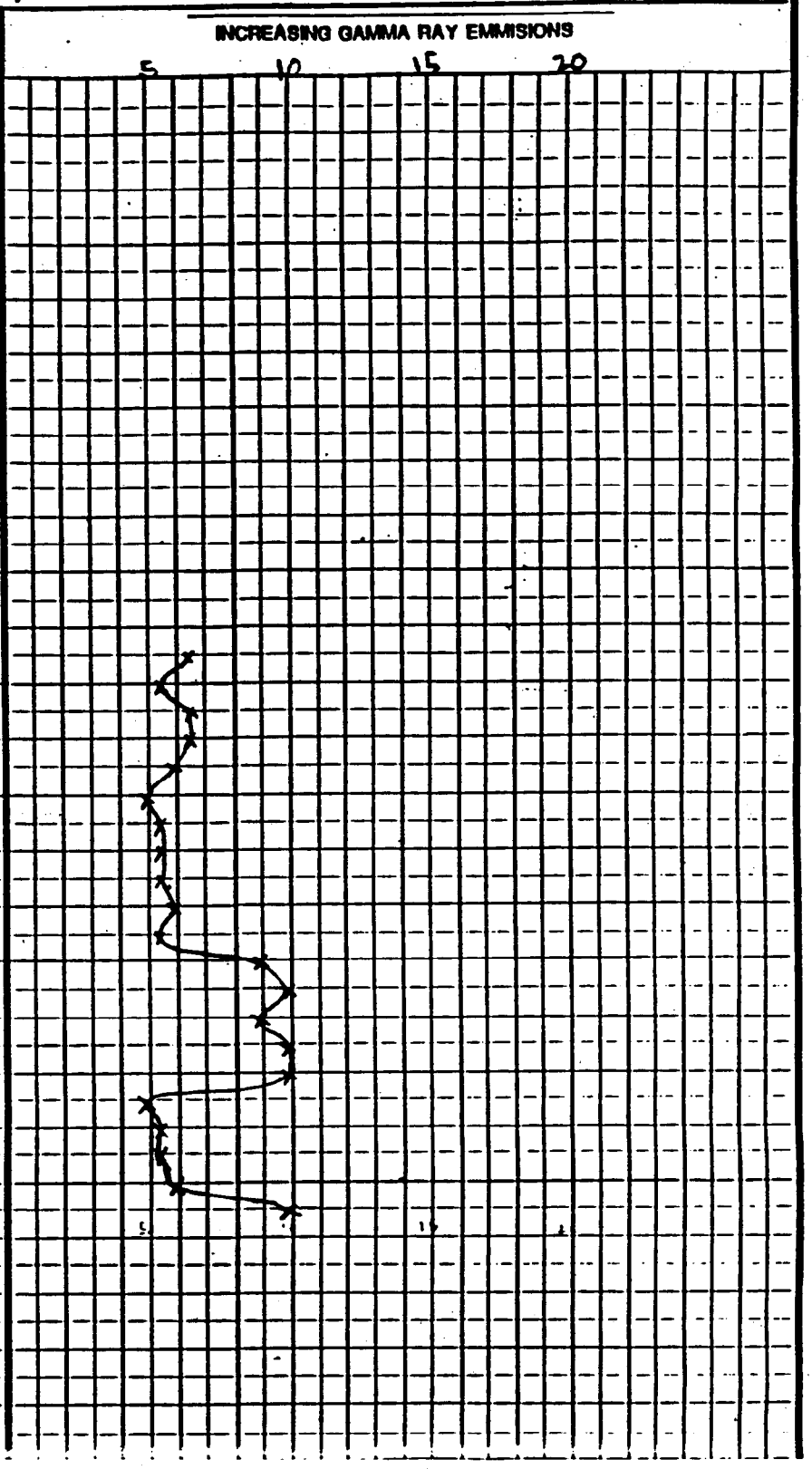
MEASURING POINT 0 feet above/below ground level DATE 10 - -91

DRILLER Mr. M. Pellegrino BOREHOLE DEPTH ____ feet, DIAMETER ____ inches

CASING DEPTH ____ feet, DIAMETER ____ inches OPERATOR Mr. C. Okon

COUNTS SETTING (GR-73) GM/100 RANGE SETTING (GR-81) ____ TIME CONSTANT (GR-81) ____

SECONDS	DEPTH (FT)	COUNTS PER SECOND *
	GRADE	
	2.5	
	5	
	7.5	
	10	
	12.5	
	15	
	17.5	
	20	
	22.5	
	25	
	27.5	
	30	
	32.5	
	35	
	37.5	
	40	
	42.5	
	45	
	47.5	
15	50	6.5
18	52.5	5.5
15	55	6.5
15	57.5	6.5
17	60	6
20	62.5	5
14	65	5.5
19	67.5	5.5
18	70	5.5
17	72.5	6
18	75	5.5
11	77.5	9
10	80	10
11	82.5	9
10	85	10
10	87.5	10
21	90	5
18	92.5	5.5
19	95	5.5
17	97.5	6
10	100	10



All depths measured to top of probe. Probe is 18" long.

Borehole logged thru 3¼" ID augers SWL ≈ 50'

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97 Union Avenue P.O. Box 1309
RONKONKOMA, NEW YORK 11779
(516) 981-2255

LC22

GAMMA RAY LOG BY

30I JOHNSON-KECK GR-73 / GR-81 GAMMA RAY LOGGING SYSTEM

WELL #1 [illegible] - Site 2 OWNER NAVY/HALLIBURTON NUS

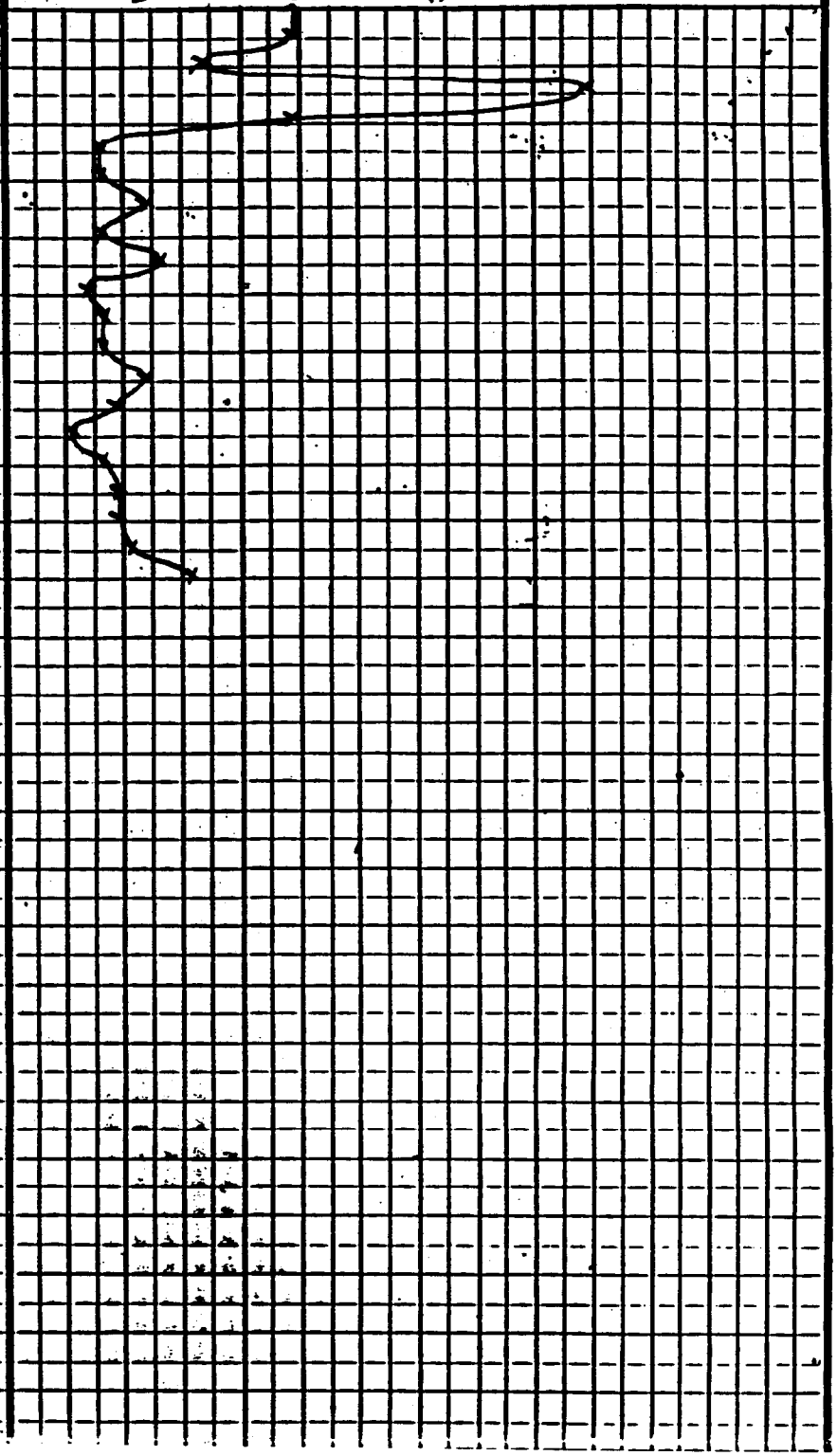
MEASURING POINT 0 feet above/below ground level DATE 10-18-91

DRILLER Mr. M. DeFegino BOREHOLE DEPTH ____ feet, DIAMETER 6 1/4 inches

CASING DEPTH N/A feet, DIAMETER N/A inches OPERATOR Mr. C. Okon

COUNTS SETTING (GR-73) 64/100 RANGE SETTING (GR-81) ____ TIME CONSTANT (GR-81) ____

SECONDS	DEPTH (FT)	COUNTS PER SECOND
10	102.5	10
19	105	7
5	107.5	20
10	110	10
27	112.5	3.5
29	115	3.5
21	117.5	5
29	120	3.5
18	122.5	5.5
31	125	3
28	127.5	3.5
30	130	3.5
21	132.5	5
26	135	4
38	137.5	2.5
30	140	3.5
25	142.5	4
26	145	4
22	147.5	4.5
15	150	6.5



All depths measured to top of probe. Probe is 18" long.

Borehole logged thru 3 1/4" ID Augers. SWL ≈ 50'

& PUMP CO., INC.
97 Union Avenue P.O. Box 1309
RONKONKOMA, NEW YORK 11779
(516) 981-2255

BORING LOG **NUS CORPORATION**

PROJECT: NWIRP BETHPAGE BORING NO.: HN 8 - Pilot
PROJECT NO.: 3281 DATE: 12/2 DRILLER: Mike P. DELTA WELL
ELEVATION: FIELD GEOLOGIST: Kevin Kilmartin
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	150	100				DK. GY	24" MED. TO COARSE SAND		BE 0.4 HS 0.5 6614
1505			24/24						
	152						GOT ABOUT 5 inches of penetration for 100 blows.		BE 0.6 HS 11.4 6608
							TRAP was jammed by a large QTZ. pebble that was		
	154						actually 'cored' by the spoon.		
	156								
End Day 12/2	158						8 ft. of heave at 160 ft.		heave is a fine to mostly medium & coarse sand,
							12/3 heave is a LT. TAN, MEDIUM SAND ←		gray in color, with some rare pebbles included
	160	4 6							
1122		4 11	24/24			LT. BN	18" LT. BN, MED. grained sand, well sorted		BE 0.3 HS 0.4 6614
	162					GY	6" SILT & SILTY CLAY.		
	164								
	166								
							3 ft of heave at 170 ft		heave is a light
	168								brown, med. grained
									sand.
	170	5 16				LT. BN	24" LT BN, well-sorted,		BG 0.2 HS 0.4 6614
1205		36 30	24/24				MEDIUM SAND		
	172								
	174								

REMARKS Sampling starts 150 - 152'

BORING HN 8

PAGE 1 of 5

BORING LOG **NUS CORPORATION**

PROJECT: ..... BORING NO.: .....
PROJECT NO.: ..... DATE: 12/3 DRILLER: .....
ELEVATION: ..... FIELD GEOLOGIST: Kevin Kilmartin
WATER LEVEL DATA: .....
(Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
							4 ft of heave at 180 ft		
	176								
	178								
	180	30 / 100							
1345			12/24			GY	5" fine sand 3" CLAY		BG 0.2 HS 0.3 6614
	182						4" MEDIUM SAND		
	184								
							3 ft of heave at 190 ft		heave is a light tan, medium grained sand
	186								
	188								
	190	6 / 18							
1534		28 / 24	14/24			GY	8" MEDIUM TO COARSE SAND		BG 0.3 HS 0.4
	192					LT. BN	2" MEDIUM SAND		
						GY & BLK	4" MEDIUM SAND WITH BLACK (STAINED ?) SAND		
	194								
	196								
							4 ft of heave at 200 ft		
	198								

REMARKS _____

BORING HN8

PAGE 2 : 5

BORING LOG **NUS CORPORATION**

PROJECT: ..... BORING NO.: .....
PROJECT NO.: ..... DATE: ..... DRILLER: .....
ELEVATION: ..... FIELD GEOLOGIST: .....
WATER LEVEL DATA: .....
(Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	200	6 / 24				LT GY	20" MEDIUM TO COARSE SAND		BG 0.3 HS 0.4
1632		50 / Ref.	24 / 24			LT GY &	4" fine TO MEDIUM SAND		
	202					BN			
End DP; 12/3							Spoon stuck in hole. Retrieved at 1700		
	204								
							5 foot of heave at 210 (Drilled from 190 – 210 ft, 12/4 a.m.)		
	206								
	208								
	210	10 / 32				LT GY	16" MEDIUM, well-sorted SAND		BG 0.3 HS 0.5
0820		50 / Ref	24 / 24			LT BN	8" CLAY & SILTY CLAY		
	212								
							3ft of heave at 220 ft.		heave is a gray,
	214								fine TO MEDIUM
									SAND.
	216								
	218								
	220	22 / 25				GY-BN GY	10" MEDIUM, well-sorted SAND 2" CLAY		BG 0.4 HS 0.4
0910		22 / 24	18 / 24			GY-BN	.5" CLAYEY, SILTY fine SAND with lignite		
	222					BLK	1" STIFF CLAY		
	224								

REMARKS _____

BORING HN8

PAGE 3 of 5

BORING LOG **NUS CORPORATION**

PROJECT: BORING NO.:
PROJECT NO.: DATE: DRILLER:
ELEVATION: FIELD GEOLOGIST:
WATER LEVEL DATA :
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CONCRETE	REMARKS
							3 ft of heave at 223 ft		heave is a light brown,
	226								very fine-grained sand
	228								
	230	5 / 25				LT. BN	5" MEDIUM SAND		BG 0.4 HS 0.4
1052		35 / 40	8 / 24			BLK	3" STIFF CLAY		
	232								
							3 ft of heave at 240 ft		heave is a light brown, medium sand
	234								
	236								
	238								
	240	8 / 50				LI. BN	12" MEDIUM SAND		BG 0.3 HS 0.4
1159		Ref	24 / 24			GY	12" STICKY CLAY		
	242								
	244								
							2 ft of heave at 250 ft		heave material is a black clay & a brown, medium-grained sand
	246								
	248								

250

REMARKS Last sample was taken from 250-252'

BORING HN8

PAGE 4 : 5

BORING LOG **NUS CORPORATION**

PROJECT: BORING NO.:
PROJECT NO.: DATE: DRILLER:
ELEVATION: FIELD GEOLOGIST:
WATER LEVEL DATA :
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	BORE HOLE CONDITIONS	REMARKS
	250	16 / 56				LT. BN &	8" INTERBEDDED SILTY fine SAND and CLAY		PE C. 2 HS C. 3
1340		Ref	8 / 24			GY			
	252								

REMARKS Drillers drilled TD 255' (5' of rathole for logger)

BORING HN8

PAGE 5 : 5

DELTA WELL
& PUMP CO., INC.
97 Union Avenue P.O. Box 1309
RONKONKOMA, NEW YORK 11779
(516) 981-2255

GAMMA RAY LOG BY

JOHNSON-KECK GR-73 GAMMA RAY LOGGING SYSTEM

WELL 8 site 2 OWNER NAVY

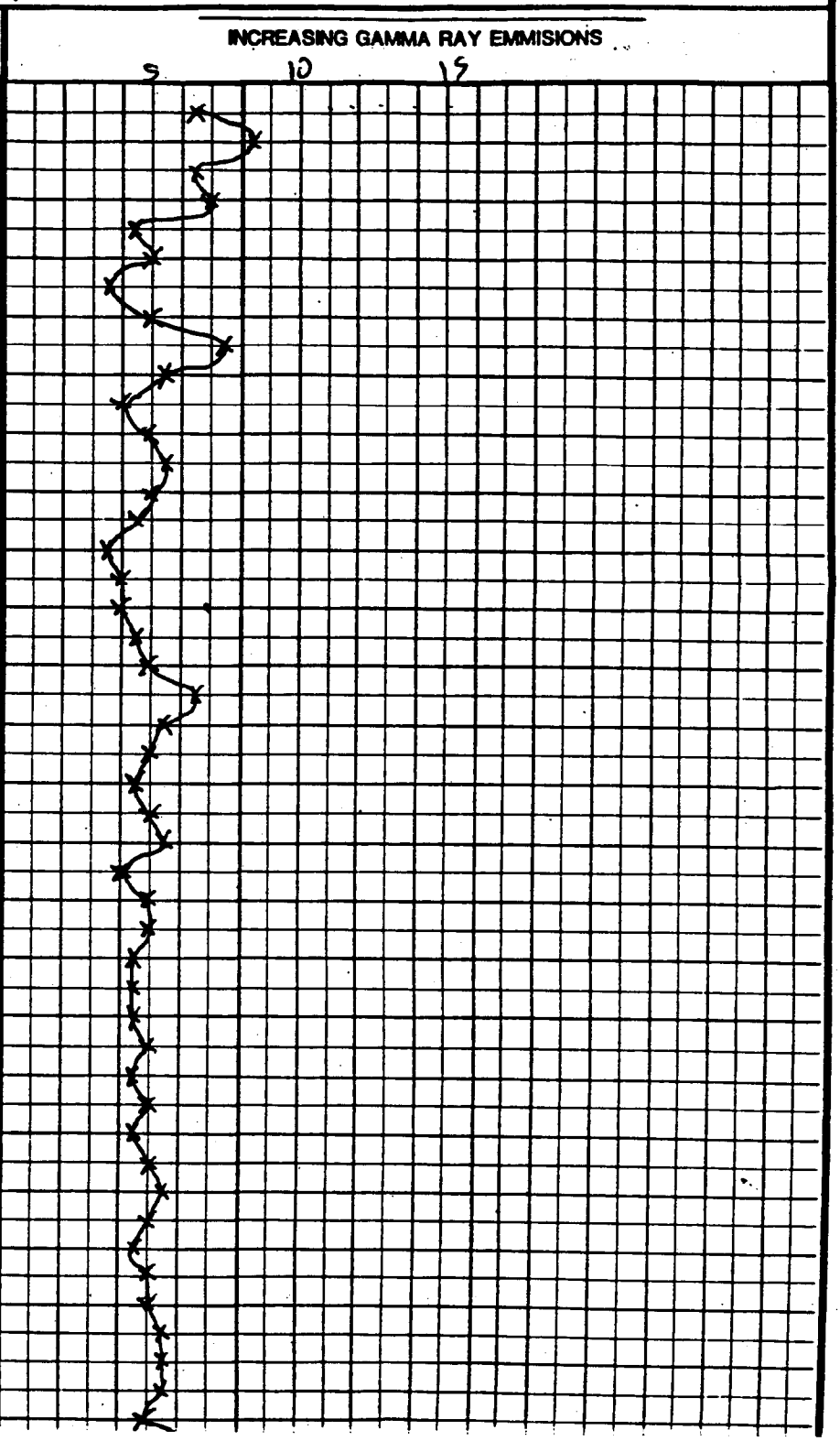
MEASURING POINT grade feet above/below ground level DATE 12-4-91

DRILLER _____ BOREHOLE DEPTH ____ feet, DIAMETER ____ inches

CASING DEPTH ____ feet, DIAMETER ____ inches OPERATOR G Olson

COUNTS SETTING (GR-73) GN/100 RANGE SETTING (GR-81) _____ TIME CONSTANT (GR-81) _____

COUNTS per SECONDS	DEPTH (FT)	COUNTS per SECONDS
6.5	50	16
8.5	52.5	12
6.5	55	15
7	57.5	14
4.5	60	22
5	62.5	20
3.5	65	28
5	67.5	20
7.5	70	13
5.5	72.5	18
4	75	25
5	77.5	20
5.5	80	19
5	82.5	20
4.5	85	23
3.5	87.5	30
4	90	25
4	92.5	26
4.5	95	23
5	97.5	20
6.5	100	16
5.5	102.5	18
5	105	20
4.5	107.5	22
5	110	21
5.5	112.5	19
4	115	24
5	117.5	20
5	120	20
4.5	122.5	22
4.5	125	22
4.5	127.5	22
5	130	24
4.5	132.5	22
5	135	20
4.5	137.5	22
5	140	20
5.5	142.5	18
5	145	20
4.5	147.5	22
5	150	20
5	152.5	20
5.5	155	19
5.5	157.5	19
5.5	160	19
5	162.5	20



GAMMA RAY LOG BY

DELTA WEI
& PUMP CO.
97 Union Avenue
RONKONKOMA NEW YOR
(516) 981-2255

JOHNSON-KECK GR-73 GAMMA RAY LOGGING SYSTEM

WELL 8 Site 2 OWNER

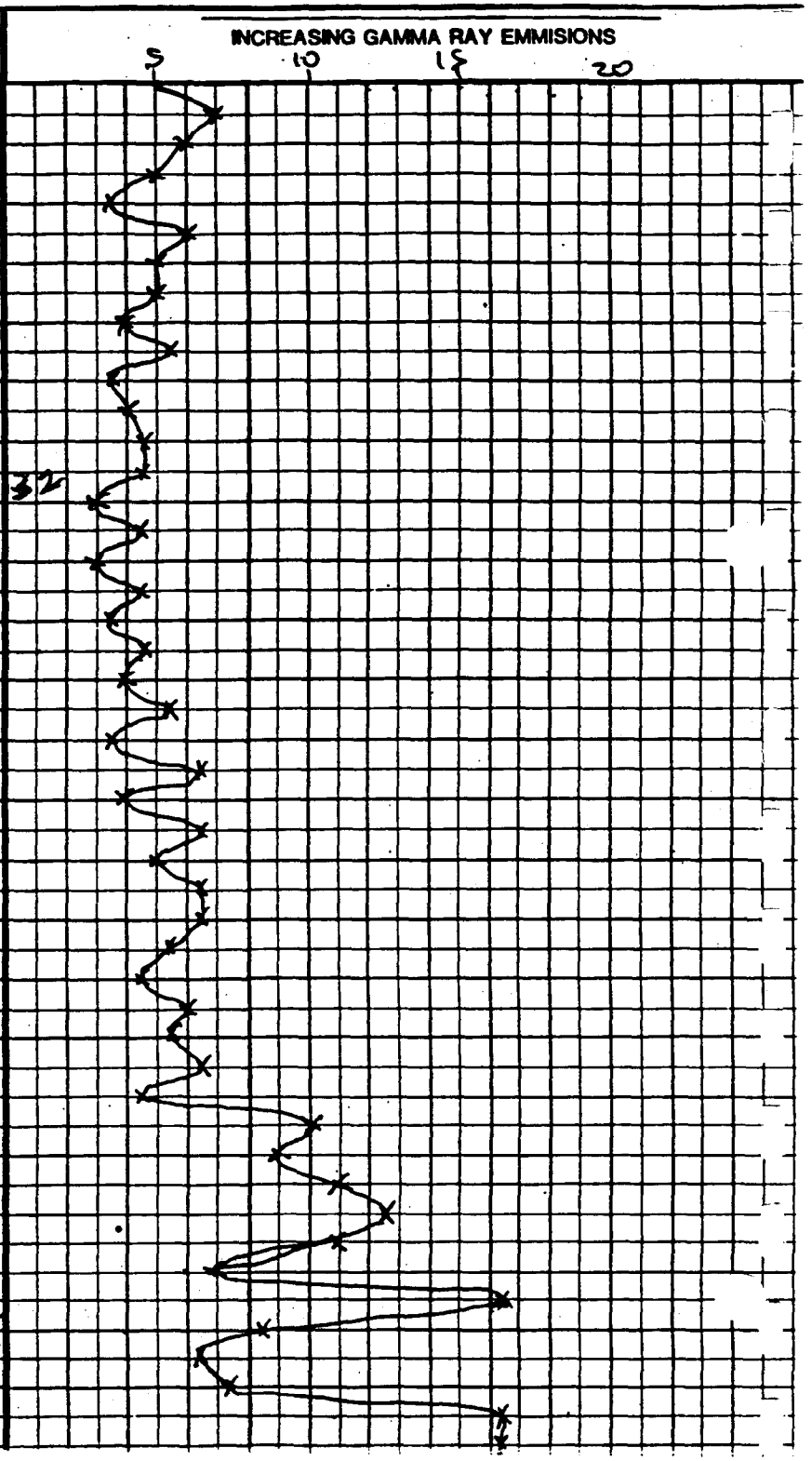
MEASURING POINT _____ feet above/below ground level DATE

DRILLER _____ BOREHOLE DEPTH ____ feet, DIAMETER ____ inc...

CASING DEPTH ____ feet, DIAMETER ____ inches OPERATOR

COUNTS SETTING (GR-73) _____ RANGE SETTING (GR-81) _____ TIME CONSTANT (GR-81) _____

Counts per SECOND	DEPTH (FT)	COUNTS SECONDS
7	115	11
6	117.5	17
5	120	21
3.5	122.5	28
6	125	17
5	127.5	21
5	130	20
4	132.5	26
5.5	135	19
3.5	137.5	28
4	140	25
4.5	142.5	23
4.5	145	22
3	147.5	32
4.5	150	22
3	152.5	34
4.5	155	23
3.5	157.5	28
4.5	160	22
4	162.5	24
5.5	165	18
3.5	167.5	28
6.5	170	15
4	172.5	24
6.5	175	15
5	177.5	20
6.5		15
6.5		15
5.5		18
4.5		22
6		17
5.5		18
6.5		15
4.5		22
10		10
9		11
11		9
12.5	210	8
11	212.5	9
7	215	14
16.5	217.5	6
8.5	220	12
6.5	222.5	15
7.5	225	13
16.5	227.5	6
16.5	230	6



DELTA WELL
& PUMP CO., INC.
97 Union Avenue P.O. Box 1309
RONKONKOMA, NEW YORK 11779
(516) 981-2255

GAMMA RAY LOG BY

JOHNSON-KECK GR-73 GAMMA RAY LOGGING SYSTEM

WELL 8 site 2 OWNER _____

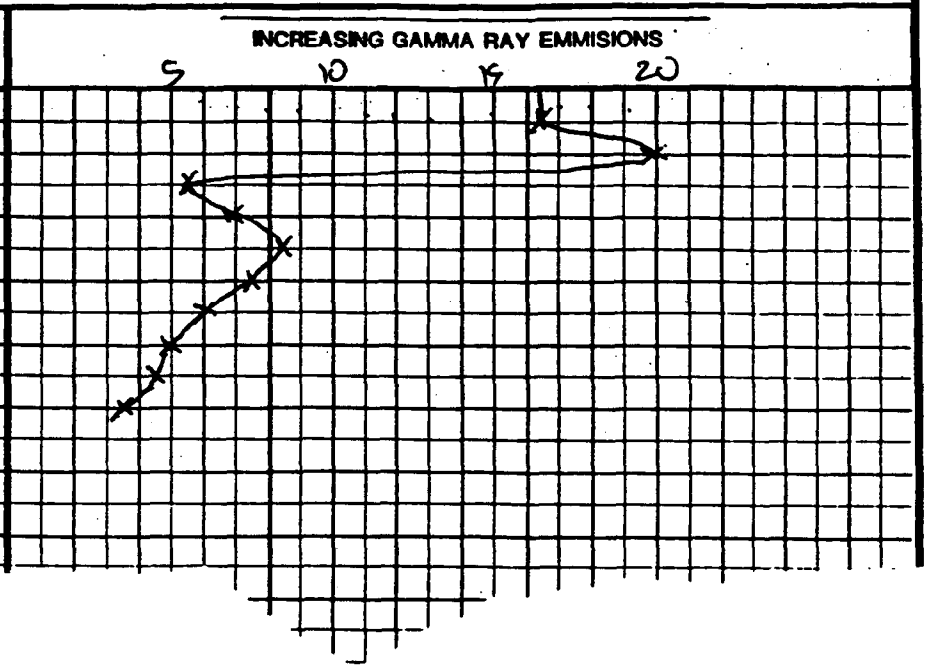
MEASURING POINT _____ feet above/below ground level DATE _____

DRILLER _____ BOREHOLE DEPTH ____ feet, DIAMETER ____ inches

CASING DEPTH ____ feet, DIAMETER ____ inches OPERATOR _____

COUNTS SETTING (GR-73) _____ RANGE SETTING (GR-81) _____ TIME CONSTANT (GR-81) _____

SECONDS	DEPTH (FT)	COUNTS PER SECOND
6	230	16.5
8	232.5	20
18	235	5.5
14	237.5	7
12	240	8.5
13	242.5	7.5
17	245	6
20	247.5	5
22	250	4.5
24	252.5	3.5



BORING LOG

NUS CORPORATION

PROJECT: NWIRP Bethpage

BORING NO: 338

PROJECT NO.: 3281

DATE: 8-26-91

DRILLER: Joe Miranda - ADT

ELEVATION:

FIELD GEOLOGIST: R. Patarcity

WATER LEVEL DATA:

(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
	0					dk Br.	Med sand w/organic		
	2					dk Br	Med sand w/organic gravel < 1"		
		17 / 19				Br	6" med to coarse clayey sand		
3"	4	21 / 29	18" / 24"			Br	coarse sand gravel < 2"		Sample @ 1020
						Br	coarse to med sand gravel < .75"		
	6								
	8								
	10								
	12								
	14								
	16								
	18								
		11 / 13				Br	coarse to med sand gravel < .75"		moist at 19' (perched?)
3"	20	14 / 15	18" / 24"						Sample @ 1050
	22								
	24								

REMARKS

BORING 338

PAGE 1 of ~

BORING LOG — NUS CORPORATION

PROJECT: NWIRP Bethpage — BORING NO.: 338
PROJECT NO.: 3281 — DATE: 8-26-91 — DRILLER: Joe Miranda - ADT
ELEVATION: — FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	UNIFIED SOIL CLASSIFICATION	REMARKS
	26					Br	coarse to med sand gravel to .75"		
							↓		
	28								
							↓		
	30					Br	coarse to med sand gravel to 1"		
							↓		
	32						↓		
						Br	coarse to med sand gravel to 1"		
	34						↓		
							↓		
	36						↓		
							↓		
	38						↓		
							↓		
	40						↓		
		9 / 10				lt Br	med sand gravel to 1"		
2"	42	12 / 11	10" / 24"				↓		
		12 / 16					↓		HNU 2ppm
2"	44	16 / 19	14" / 24"				↓		
		19 / 23				wt to lt Br	coarse sand with gravel <.75"		HNU 2ppm MOIST
2"	46	45 / 54	22" / 24"				↓		
						wt to lt br	coarse sand gravel <.75"		
	48						↓		
							↓		
	50						↓		

REMARKS: HNU Background 1ppm

BORING 338

PAGE 2 : 3

BORING LOG NUS CORPORATION

PROJECT: NWIRP Bethpage BORING NO: 338
PROJECT NO.: 3281 DATE: 8-26-91 DRILLER: Joe Miranda - AOT
ELEVATION: FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
						wt to lt Br	coarse sand gravel <.75"		
	52								
	54								water level 54½ ft.
									sample at 1245
	56								
									well depth 58'
	58								
	60								
	62								

REMARKS At well depth 56 ft - water level 52 ft
At well depth 60 ft water level 54.5 ft

BORING 338

PAGE 3

BORING LOG — **NUS CORPORATION**

PROJECT: SETHPA 66 — BORING NO.: SB 334
PROJECT NO.: 3281 — DATE: 8-27-91 — DRILLER: RICH BERUMAN
ELEVATION: — FIELD GEOLOGIST: D. YOST / FRED RANSER
WATER LEVEL DATA: (Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
	0.0			0.5			ASPHALT - 2" THICK CRUSHED ROCK FILL		CRUSHED ROCK FILL 0.5' THICK
	2.0					BLACK	SAND SOME GRAVEL		
							SILT AND CLAY (FILL)		FILL 5'
	4.0	9 / 20					MORE GRAVEL		
S-1 0-2.5		29 / 70	1.8 / 2.0	5.0	DENSE	REDDISH BROWN	SAND AND GRAVEL	SP	S-1 3-5' + SENT TO LAB.
	6.0						SAND IS FINE - COARSE GRAVEL IS SUBROUNDED <1"		2.4ppm - NNU
	8.0								
	10.0								
	12.0								
	14.0								
	16.0								
	18.0								
	20.0	8 / 21							
S-2 12-14		25 / 24	1.8 / 2.0		MED DENSE	LIGHT BRN	FINE TO COARSE SAND AND FINE TO MED GRAVEL LESS THAN 1½ in dia GRAVEL	SP	S-2 19-21 MOIST
	22.0								
	24.0						AS ABOVE		

REMARKS: [illegible] BY RIG [illegible] INCH [illegible] NATIONAL STEM AUGERS. HOLE NUMBER REGRILL 30' [illegible] SPOON SAMPLES. [illegible] SPOONS FOR SAMPLES [illegible] SENT TO LAB. [illegible] FOR LITHOLOGICAL SAMPLES

BORING SB 334

PAGE 1 of 3

BORING LOG — **NUS CORPORATION**

PROJECT: BORING NO.: SB-334
PROJECT NO.: DATE: 8-27-91 DRILLER:
ELEVATION: FIELD GEOLOGIST: FRED RAMSER
WATER LEVEL DATA :
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CLASS	REMARKS
	26						AS ABOVE	SP	
	28								
	30								
	32								
	34								
	36								
	38								
	40								
	42								
1300 S3		U 10			MEDIUM DENSE	BRN	FINE TO MED. SAND SOME SILT, TR MICA FLAKES TR CLAY	SM	NO SAMPLE TAKEN, MOIST
	44	12 16	1.8/2.0						
	46	8 15			MED. DENSE	MOTTLED BRN TO RED	COARSE TO FINE SAND W/SOME SILT	SM	
1315 S4		20 15	1.8/2.0			MOTTLED BRN TO RED	COARSE TO FINE SAND SOME SILT		LAMINATED WITH SAND STRINGERS MOIST 45'-47'
48 ↓ 50 S5	48	9 12 15 16	1.0/2.0			MOTTLED BRN TO RED	COARSE TO FINE SAND SOME SILT AND CLAY SAND LAYERS		S-5 48'-50' SATURATED
	50								

REMARKS HIT WATER AT 48'

BORING SB 334

PAGE 2 : 3

BORING LOG **NUS CORPORATION**

PROJECT: ..... BORING NO.: SB-334
PROJECT NO.: ..... DATE: ..... DRILLER: .....
ELEVATION: ..... FIELD GEOLOGIST: .....
WATER LEVEL DATA: .....
(Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR BROKENESS	REMARKS
S-6 13:37		8 9							TWO SAMPLES TAKEN [illegible]
	52	13 36	2.0 / 20	SCREENED		MOTTLED RED-BRN ORA-YEL. WHT.	FINE TO MED. SAND W/ SILT	SW	LAYER OF CLAYEY SAND [illegible] SAMPLED
	54								
	56								
									TWO VOA SAMPLES TAKEN AT 1435 HRS
	58			TD=57					
	60								

REMARKS TD=57 WATER LEVEL @ 50.5 measured 14:20 HRS

BORING SB 334

PAGE 3 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: Bella Page — BORING NO.: SB 329
PROJECT NO.: 3281 — DATE: 6-27-91 — DRILLER: Rick Berman CAD+
ELEVATION: — FIELD GEOLOGIST: FRED RAMSER
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
	0.0						CONCRETE - 8" THICK		
	2.0					BLK			FILL MATERIAL
	4.0	5 6							
S-1 16-59		5 7	2.0/2.0			BLK TO DK BRN	CLAY w/some S. SILT AND MED TO FINE GRAVEL - TR SAND	GC	S-1 3-5' 1.0 ppm HNU 1659
	6.0						≈5' GRAVEL		
				FILL MATERIAL					
	8.0								
	10.0								
	12.0								
									NATURAL MATERIAL PER DRILLER @ 12.5 FT. 0.0 ppm HNU @ SL
	14.0					DRK TO DK YEL	SANDY GRAVEL 1"-2" GRA SUBROUNDED TO SUBANGULAR	GP/GW	
	16.0								
	18.0								
	20.0								
	22.0								
	24.0								
							AS ABOVE		

REMARKS: MOBILE B57 RIG 3¼ INCH I.D. HOLLOW STEM AUGERS 140 lb HAMMER DRIVEN 30" FOR SPLIT SPOON SAMPLES. 3" I.D. SHELBY FOR SAMPLES TO LAB. 2" I.D. SHELBY FOR LITHOLOGICAL SAMPLES.

BORING SB 329

PAGE 1 : 3

BORING LOG **NUS CORPORATION**

PROJECT: BETH PAGE BORING NO: SB 329
PROJECT NO.: 3281 DATE: 8-27-91 DRILLER: RICH BEAUMAN (AD)
ELEVATION: FIELD GEOLOGIST: FRED RAMSER
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
	26 C						GRAVE LENS		GRAVEL LENS AT 25' PER DRILLER.
							↓		
	28.0						SANDY GRAVEL WITH SILT + CLAY WELL ROUNDED GRAVEL		
							↕		
	30.0					BRN	SANDY GRAVEL WITH SILT + CLAY WELL ROUNDED GRAVEL MED TO FINE	GM	@ 30' CUTTINGS BECOME MOIST LESSER GRAVEL
							↑		
	32 C								
	34.0								
	36.0								
	38.0						↓		
						GRN	SANDY GRAVEL WITH SILT TR CLAY MED TO FINE GRAVEL	GM	WELL ROUNDED GRAVEL
	40 C						↑		
	42 0								
	44.0						↓		
S-2 17.50		19 26				TAN TO BRN	FINE TO COARSE SAND, SOME GRAVEL TR SILT AND CLAY.	GM	S-2 44' to 46' MOIST WELL ROUNDED TO SUBROUNDED
	46.0	35 23	1.5 / 2.0				↑		
	48 C								
		18 24							
S-3 15.15	50.0	23 32	1.2 / 2.0			BEIJ LT BRN	FINE TO COARSE SAND WITH SOME SILT TR CLAY		S-3 48 to 50' MOIST

REMARKS 2 1/4 ID SPLIT SPOON, HSA 3 1/4, 140 lb HAMMER DROPPED 30"
NO SAMPLE AT 19' to 21'

BORING SB 329

PAGE 2 of 3

BORING LOG **NUS CORPORATION**

PROJECT: BORING NO.: SB 329
PROJECT NO.: DATE: 8-27-91 DRILLER: RICH BRAUMAN
ELEVATION: FIELD GEOLOGIST: FRED RAMSER
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
S-4 18:25		20 24				BRN	FINE TO COARSE SAND WITH SOME SILT TR/CLAY	SW	50-52 S-4 1.2 PPM HNU SATURATED
	52	31 28	1.0 / 2.0						
S-5 18:45	54	8 10					FINE TO COARSE SAND WITH SOME SILT TR/CLAY	SW	S-5 53'-55' 0.5 PPM HNU SATURATED
		16 20	1.2 / 2.0						
	56								
	58			TD=58'			AS ABOVE		
	60								
							BOTTOM 58'		
							SCREENED 10' [illegible]		

REMARKS MEASURED W.L @ 53.5' 8-27-91 18:00 HRS
TD@58'

BORING SB 329

PAGE 3 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: [illegible] BORING NO.: SB 328
PROJECT NO.: 328' DATE: 8-30-9[illegible] DRILLER: RICH BEAUMAN CAPT
ELEVATION: FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	0.0						ASPHALT - 3" THICK CONCRETE		ASPHALT - 3" CONCRETE - 0.5'
	2.0					BROWN BLACK	SILT SAND SOME CLAY - ROCK FRAG		FILL
	4.0	2 / 2							
S-1 0820		4 / 4	2.0 / 2.0		SOFT	BLACK-D. BROWN	SILTY SANDY CLAY TR GRAVEL	CL	S-1 3-5' # SENT TO LAB 0.2 PPM-HNU
	6.0						ROOTS ORGANICS		DAMA FILL
	8.0			8.0		REDDISH BROWN	SAND AND GRAVEL	SW	OUT OF FILL - 8'
	10.0								
	12.0								
	14.0								
	16.0								
	18.0								
	20.0	19 / 27				TAN-	FINE - COARSE SAND AND	SW	GRAVEL CONSISTS MOSTLY OF QUARTZ
S-2 0830		28 / 30	1.6 / 2.0		DENSE	LT BROWN	GRAVELS - SUBROUNDED < 3/4"		S-2 19-21 # SENT TO LAB 0.5 PPM-HNU
	22.0								MOIST
	24.0								

REMARKS MOBILE B57 RIG 3¼" I.D HOLLOW STEM AUGERS 140 lb HAMMER DROPPED 30" FOR SPLIT SPOON SAMPLES 3" I.D SPOONS FOR SAMPLES TO LAB. 2" I.D. SPOONS FOR LITHOLOGICAL SAMPLES

BORING SB328

PAGE 1 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: BETH PAGE — BORING NO.: SB 328
PROJECT NO.: 3281 — DATE: 8-30-91 — DRILLER: BEN BEAUMAN (ADT)
ELEVATION: — FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA: (Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	UNIFIED SOIL CLASS.	REMARKS
	26.0					LT BROWN	FINE-COARSE SAND AND GRAVEL - SURROUNDED		
	28.0								
	30.0								
	32.0								
	34.0								
	36.0								SILT OF GRAVEL?
	38.0								
	40.0								
	42.0								
	44.0								
						TAN-RED.			SAND IS MOTTLED IN COLOR
	46.0					WHITE	SILT/SAND TR CLAY - SAND - FINE-MEDIUM		TR MICA FLAKES
		9 9							
S-3 0857	48.0	10 6	2.0 / 2.0		MEDIUM DENSE		↓	SM	S-3 46-48' 15ppm NOISE
		4 4				TAN-RED.	SILTY SAND TR CLAY		COLOR MOTTLED
S-4 0858	50.0	10 11	7.0 / 7.0		MEDIUM DENSE	WHITE	SAND FINE-Medium	SM	S-4 48-50 10ppm

REMARKS

BORING SB328

PAGE 2 of 2

BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE — BORING NO.: SB 322
PROJECT NO.: 3281 — DATE: 8-30-91 — DRILLER: RICH BENJAMIN (ACT)
ELEVATION: — FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
	52.0	13 / 75		52.0		TAN	SILTY SAND - SAND - FINE-medium		
S-5 0978		30 / 42	2.0 / 2.0		V. DENSE	MOTTLED RED	FINE-MEDIUM SAND TR SILT	SM	S-5 51-53' SATURATED
	54.0	37 / 42							0PPM-HNU
S-6 0985		50/4"	2.0/2.0		V. DENSE	RED	FINE-COARSE SAND TR SILT CLAY	SW	S-6 53-55 SATURATED
	56.0			56.0					0.5 PPM HNU
							BOTM 56.0		

REMARKS BOTM -56' WELL SCREENED 46-56'
WATER LEVEL 51'
SATURATION ~ 50'

BORING SB320

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BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage — BORING NO.: 318
PROJECT NO.: 3251 — DATE: 8-28-91 — DRILLER: Joe Miranda - ADT
ELEVATION: — FIELD GEOLOGIST: R Antarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS CODE	REMARKS
	0					Bl	sand w/cinders & organic		
							↓		
	2								
		7/6				Bl	6" sand w cinders & organic		HNU in hole 7ppm.
3"	4	5/6	16"/24"			lt br	12" coarse sand gravel to .75"		Sample at 0820
						lt br	coarse sand gravel to .75"		
	6						↓		
	8								
	10								
							↓		
	12					yell br	Fine to med sand gravel to .75"		
							↓		
	14								
						yell br	Fine to med sand gravel to .5"		
	16						↓		
	18								
		7/8					↓		no clear HNU in hole
3"	20	9/8	18"/24"			yell br	Fine to med sand gravel to .5"		HNU 7ppm sporadic
							↓		
	22								
	24								

REMARKS HNU Background 3ppm

BORING 318

PAGE 1 : 2

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Beach page — BORING NO.: 318
PROJECT NO.: 3281 — DATE: 8-28-91 — DRILLER: Joe Miranda - AOT
ELEVATION: — FIELD GEOLOGIST: R Katarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CONSISTENCY	REMARKS
						yel br	fine to med sand gravel <.5"		
	26						less gravel		
	28								
	30								
	32								
	34								
	36								
						dk br	fine to med sand gravel to .5"		
	38					yel br	fine to med sand gravel to .5"		
	40	4 / 3				wt yellow	6" fine sand w/clay & mica		
2'		4 / 4	18" / 24"			wt yell	12" fine sand w/gray clay		slightly moist
	42	6 / 3				wt yell	6" fine sand w/gray clay		
2"		5 / 7	24" / 24"			wt yel / yell rd	12" fine sand w/silt / 6" fine sand		
	44	6 / 9							
2'		7 / 11	18" / 24"			yell rd	18" fine sand		
	46	9 / 7				yel red	6" fine sand		
2'		11 / 12	18" / 24"			wh / yel wt	4" fine sand / 8" fine sand		
	48	7 / 5				yel wt	12" fine sand		48 ft Final water le
2"		6 / 6	16" / 24"			yel rd	4" fine sand		last 4" wet

REMARKS: Approx water table 48'8"

BORING 318

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BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage — BORING NO.: 318
PROJECT NO.: 3281 — DATE: 8-28-91 — DRILLER: Joe Miranda - ADT
ELEVATION: — FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (FT.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CONSISTENCY	REMARKS
	50	17 / 21				yellwt	12" medtocoarse sand		
2"		32 / 43	24" / 24"			wt	12" fine sand		
	52					wt	fine to med sand.		total depth 52.5 ft.
							↓		
	54								sample @ 1046

REMARKS At 1030 water level 49.5 ft depth 52.5 ft.
pulled 5 ft auger water level 48 ft.
depth 52.5

BORING 318

PAGE 3 : 2

BORING LOG NUS CORPORATION

PROJECT: NWIRP Bethpage BORING NO.: 316
PROJECT NO.: 3281 DATE: 8-28-91 DRILLER: Joe Miranda - AUT
ELEVATION: FIELD GEOLOGIST: RPatarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	0					dk br	4" asphalt 12" organic cinder & gravel		
							18" brown coarse sand w/ black organic & roots		
	2	4 5					↓		
3"		6 5	16"/24"			blk br	12" wet organic w/ clay 4" sand w gravel to .75"		Sample @ 1210
	4						↓		
						dk br	coarse sand gravel to 1.5"		
	6						↓		
	8								
	10								
	12					br	coarse sand gravel to 1.5"		
							↓		
	14								
						br	coarse sand gravel to .5"		
	16						↓		
	18						↓		
		7 8				br	6" coarse sand gravel to 1"		
3"	20	11 10	24"/24"			br	18" coarse to med sand .5" gr.		Sample @ 1225
						br	coarse to med sand gravel .5"		
	22						↓		
	24						↓		

REMARKS 3'-5' 2 borings 3 spoons #2, 4.5-6.5 #3- 6- - -5

BORING 316

PAGE 1 : 3

BORING LOG NUS CORPORATION

PROJECT: NWIRP Bethpage BORING NO.: 316
PROJECT NO.: 3281 DATE: 8-28-91 DRILLER: Joe Miranda - ADT
ELEVATION: FIELD GEOLOGIST: R Patorcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENNESS	REMARKS
						br	coarse sand gravel to .5"		
	26								
	28								
	30								
	32								
	34								
	36								
	38								
	40								
	42								
	44								
		5 / 7				yellow wh	12" Fine to med sand		
2"	46	4 / 5	24" / 24"			yellow red	12" Fine to med sand		
		9 / 10							
2"	48	11 / 9	24" / 24"			wh, yel red	12" Fine sand.		
		11 / 10				yell br.	6" Fine sand.		water at 49.5

REMARKS

BORING 316

PAGE 2 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage — BORING NO.: 316
PROJECT NO.: 3281 — DATE: 8-28-91 — DRILLER: Joe Miranda - NDT
ELEVATION: — FIELD GEOLOGIST: R Butarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (FT.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS CODE	REMARKS
2"	50	15 / 12	18" / 24"			yel br / yel red	6" Fine sand / 6" Fine sand		saturated
						red yel br	Fine sand		Final water level 51 ft
	52								
	54								
	56								
						red yel br	Fine sand gravel to 1.5"		56.5 ft bottom.
	58								sample @ 1345
	60								

REMARKS Initial water level 53 ft depth 56.5 ft bored to 58 ft. pulled up 2 flights of auger - water at 51 feet total depth 56.5 ft. Casing stuck in well.

BORING 316

PAGE 3 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage — BORING NO.: 314
PROJECT NO.: 3281 — DATE: 8-30-91 — DRILLER: Mark - ADT
ELEVATION: ? — FIELD GEOLOGIST: Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CONCRETE	REMARKS
	0					gr br	4" asphalt 8" grey brown sand gravel		
						lt br	12" med sand.		
	2					br	12" coarse sand gravel to 1"		no elev HNU
		34 60				rd br	2" coarse sand		See Spoon #2 below
3"	4	ref.	6" / 24"			wt br wt br	2" coarse sand. 2" coarse sand gravel to 2"		
						lt br	coarse sand gravel to 2"		
	6								
	8								
						lt br	coarse sand gravel to .5"		
	10								
	12								
	14					lt br	coarse sand gravel to 1"		
						red br	coarse sand gravel to .5"		
	16								
	18								
	20					lt br	coarse sand gravel to .5"		
	22								
	24								

REMARKS 2nd Spoon 4'-6' → 47-80 - refusal
Approx 6" of 2.5" gravel exists at 4'-5' depth.
Spoon #2 12" wt br coarse sand gravel to 2"

BORING 314
PAGE 1 of 3

BORING LOG — **NUS CORPORATION**

PROJECT: LWIRP Bethpage — BORING NO.: 314
PROJECT NO.: 3281 — DATE: 8-30-91 — DRILLER: Mark ADT
ELEVATION: — FIELD GEOLOGIST: RAtorcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY-CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CONCRETE	REMARKS
						lt br	coarse sand gravel to .5"		
	26								
	28								
	30								
	32								
	34					lt br	coarse sand gravel to 1"		
	36								
	38								
						lt br	silty moist med sand		moist
	40	21/23							very moist
2"		26/28	24"/24"			wt	very silty fine sand		no elev HNU
	42	28/20				wt	22" very silt fine sand		saturated at top
2"		26/28	23"/24"			rd	at 4" from bottom 1/4" iron sand 1" orange clay		no elev HNU
	44	4/5				wt	12" runny silty fine sand		saturated
2"		12/17	24"/24"			wt	12" silty fine sand		no elev HNU
	46					wt	very silty fine sand		saturated
	48								

REMARKS water level 46' 2" Final

BORING 314

PAGE 2 of 3

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage — BORING NO.: 314
PROJECT NO.: 3281 — DATE: 8-30-91 — DRILLER: Mark ADT
ELEVATION: — FIELD GEOLOGIST: RPatarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CONSISTENCY	REMARKS
	50					wt	very silty fine sand		saturated
									51 ft well depth
	52								
	54								sample @ 1040
	56								

REMARKS at 1005 water level 46'-2" total well depth 51 ft.
pulled 5 feet of auger

BORING 314
PAGE 3 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE — BORING NO.: SB 307
PROJECT NO.: 3281 — DATE: 8-29-91 — DRILLER: RICH BEAUMAN (ART)
ELEVATION: — FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
	0.0			1.0			ASPHALT - 3" THICK CRUSHED ROCK FILL		FILL - 1'
	2.0					BROWN	SAND AND GRAVEL	SW	
	4.0	21 39							
S-1 1628		45 51	2.0 / 2.0		V DENSE	LT BROWN	FINE-COARSE SUBROUNDED SAND AND GRAVEL < 1'	SW	S-1 3-5' & SENT TO LAB DAMP OPPM-NNG
	6.0								
	8.0						GRAVEL ZONE @ 7' PER DRILLER		
	10.0								
	12.0								
	14.0								
	16.0								
	18.0								
	20.0	8 15				TAN-	FINE-COARSE SAND SOME	SW	
S 2 1700		18 18	2.0 / 2.0		DENSE	LT BROWN	subrounded GRAVEL < 2" TR SILT		S-2 19-21 & SENT TO LAB DAMP OPPM-NNG
	22.0								
	24.0								

REMARKS: MOBILE B57 RIG 2¼ INCH ID HOLLOW STEM AUGERS. 140 lb HAMMER DROPPED 30" FOR SPLIT SPOON SAMPLES. 3" SPOONS FOR SAMPLES TO BE SENT TO LAB 2" I.D. SPOONS FOR LITHOLOGIC SAMPLES.

BORING SB 307

PAGE 1 : 3

BORING LOG **NUS CORPORATION**

PROJECT: BETHPAGE BORING NO.: SB307
PROJECT NO.: 3281 DATE: 8-29-91 DRILLER: [illegible] (ADT)
ELEVATION: FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	26.0					TAN BROWN	SAND SOME GRAVEL		
	-								
	28.0								
	30.0								
	32.0					REDDISH BROWN	WELL GRADED SAND TR GRAVEL		
	34.0								
	36.0								
	38.0								
	40.0								
	42.0								
	44.0								
									POSSIBLE WATER AT 45'
	46.0								
		23 / 41				BROWN			
S-3 17 22	48.0	52 / 50/4"	2.6 / 2.0		V DENSE	RED-WHITE	FINE-COARSE SAND TR SILT	SW	S-3 46-48' OPPM-HNY SATURATED
		45 / 66					TOP 1' IS FINE TO COARSE SAND W/AR SILT & CLAY		
S-4	50.0	70/3"	2.0 / 2.0			MOTTLED RED, WHT VERT	FINE TO MED SAND W/AR SILT & CLAY		S-4 48-50, TOP HALF OF SAMPLE SAID TO BE BLOW IN PER DRILLER

REMARKS

BORING SB 307

PAGE 2 of 3

BORING LOG — **NUS CORPORATION**

PROJECT: BETH PAGE — BORING NO.: SB 307
PROJECT NO.: 3281 — DATE: 8-29-91 — DRILLER: RKH BEAUMAN (AOT)
ELEVATION: — FIELD GEOLOGIST: D. Yost
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CLASS	REMARKS
				51.0		RED-TAN-WHITE	FINE-MED SAND TR SILT, CLAY		(COLOR IS MOTTLED)
	52.0								
	54.0								
	56.0								
							BOTM 51.0		

REMARKS SATURATION ~45.0'
WELL SCREENED - 41-51
WATER LEVEL 45.7

BORING SB 307

PAGE 3 of 3

BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE
BORING NO.: SB 304
PROJECT NO.: 3281
DATE: 8-28-91
DRILLER: RICK BERGMAN (ACT)
ELEVATION:
FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
	0.0			0.8			CONCRETE - 0.8' THICK		
	2.0					TAN-BROWN	SAND AND GRAVEL		
							SAND - FINE - COARSE GRAVEL - SUBROUNDED < 1"		
	4.0	24 / 44							
S-1 0825		70 / 75	1.9 / 2.0		DENSE	TAN-BROWN	SAND WITH SOME GRAVEL TR SILT FINE - COARSE SUBROUNDED <3"	SW	S-1 3.5' # SENT TO LAB MOIST
	6.0								HNU - NA BACKGROUND MAY NOT REPRESENT THE DENSITY OF THE SOIL. LARGE PIECES OF GRAVEL MAY HAVE CAUSED ELEVATED READINGS
	8.0								
	10.0								
	12.0						SAND GRADES TO REDDISH BROWN IN COLOR		
	14.0						INCREASE IN GRAVEL		
	16.0								
	18.0								
	20.0	11 / 21					FINE - COARSE SAND AND FINE - MEDIUM GRAVELS	SW	
S-2 0900		27 / 32	2.0 / 2.0		DENSE	TAN-BROWN			S-2 19.21 # SENT TO LAB 2.5 PPM - HNU MOIST GRAVEL IS SUBROUNDED < 1"
	22.0								
	24.0								

REMARKS: MOBILE B57 RIG. 3 1/4 INCH I.D. HOLLOW STEM AUGERS. 140 lb HAMMER DROPPED 30" TO GET SPLIT SPOON SAMPLES. 3" I.D. SPOONS FOR SAMPLES TO BE SENT TO LAB. 2" I.D. SPOONS FOR LITHOLOGICAL SAMPLES

BORING SB 304

PAGE 1 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE — BORING NO.: SB 304
PROJECT NO.: 3221 — DATE: 8-27-91 — DRILLER: B.G. BEAUMAN (AGT)
ELEVATION: — FIELD GEOLOGIST: D. Yost
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS CODE	REMARKS
	26.0					TAN-BROWN	SAND AND GRAVEL		MOIST
							SAND IS FINE - COARSE GRAVEL IS SUBROUNDED		
	28.0						< 1"		
	30.0								
	32.0								
	34.0								
	36.0								
	38.0								
	40.0								
	42.0								OUT OF GRAVEL ?
	44.0								
		15 / 30				RED-WHITE-	FINE - MEDIUM SAND		COLOR IS MOTTLED 1 PPM-HNU
S-3 0940	46.0	50/4"	1.7 / 2.0		U. DENSE	TAN	TR SILT, CLAY		S-3 44-46' MOIST - W. MOIST
						↓	↓		WATER - 46.5 - PERCH
	48.0					TAN-	MEDIUM-COARSE SAND	SW	
		13 / 20				BROWN	FINE - COARSE SAND TRSILT	SW/SM	
S-4 1000	50.0	50 / 50/5"	2.0 / 2.0		V. DENSE	↓	↓		S-4 48-50 SATURATED 0 PPM-HNU

REMARKS

BORING SB 304

PAGE 2 : 3

BORING LOG **NUS CORPORATION**

PROJECT: BETHPAGE BORING NO.: SB 304
PROJECT NO.: 3281 DATE: 8-28-91 DRILLER: RICH BEAUMAN (ADT)
ELEVATION: FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA :
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CLASS	REMARKS
						TAN-BROWN	SAND - FINE - COARSE		
	52.0			52.0			↓		
	54.0								
	56.0								
							BOTM 52.0		

REMARKS SCREEN SET 42-52'
WATER LEVEL 46.3'

BORING SB 304

PAGE 3 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage — BORING NO.: 229
PROJECT NO.: 3281 — DATE: 8-28-91 — DRILLER: Joe Miranda - ADT
ELEVATION: — FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (FT.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, FT.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CLASS	REMARKS
	0					bl	sandy organic		
						br	coarse sand gravel to .75"		
	2						↓		
		6 / 29							
3"	4	23 / 20	6" / 24"			br	coarse sand gravel to .75"		Sample at 1657
						br	coarse sand gravel to .75"		
	6						↓		
	8								
	10								
	12								
	14								
	16								
	18					br	coarse sand gravel to 2"		
						br	coarse sand gravel to .75"		
	20						↓		
	22								
	24								

REMARKS: 2 borings for 3'-5' sample @1620

BORING 229

PAGE 1 : 3

BORING LOG NUS CORPORATION

PROJECT: NWIRP Bethpage BORING NO.: 229
PROJECT NO.: 3281 DATE: 8-28-91 DRILLER: Joe Miranda - ADT
ELEVATION: FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
						br	coarse sand gravel to .75"		
	26								
	28								
	30								
	32								
	34								
	36								
	38								
	40	6 / 5							
2"		9 / 9	12" / 24"			wt br	med to coarse sand		HNU 1.6 ppm
	42	17 / 19				wt br	12" med sand		
2"		15 / 18	14" / 24"				2" ironstone		No elev HNU
	44	39 / 36							
2"		45 / 40	24" / 24"			wt br	24" med sand		No elev HNU
	46	17 / 28							
2"		25 / 22	18" / 24"			wt br	18" med sand		HNU spoon 1.4 ppm
	48	13 / 32				wt br	12" med sand gravel to .5"		water at 49 ft
2"		52 / 50	18" / 24"			wt	6" wt sand w/ironstone		No elev HNU

REMARKS HNU Background 1.0 ppm
water 49 ft on cutting head.

BORING 229

PAGE 2 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage — BORING NO.: 229
PROJECT NO.: 3281 — DATE: 8-28-91 — DRILLER: Joe Miranda - ADT
ELEVATION: — FIELD GEOLOGIST: R Potarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (FT.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
	50	6 7				red br	10" med sand		
2"		7 7	18"/24"			br wt	4" med sand 4" med sand		
	52					wt	med sand		
	54								
	56								
									Sample at 1745
	58								

REMARKS At water level 53'4" total depth 56'3"
After 2 feet of auger water level 54'5"

BORING 229

PAGE 3 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage — BORING NO.: 227
PROJECT NO.: 3281 — DATE: 8-29-91 — DRILLER: Joe Miranda - AOT
ELEVATION: — FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA: ?
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (Ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, Ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CONSISTENCY	REMARKS
	0					bl	8" organic sand med.		
						br	6" coarse sand gravel to 2" 12" med sand		
	2					br	10" med sand & gravel to .75"		
		8 10				yel br	16" med to coarse sand gravel to .75"		No elev HNU
3"	4	54 ref.	18" / 24"			yel br.	2" ironstone gravel		Sample @ 1507
						br	med sand gravel to .75"		
	6								
	8								
	10					br	med sand gravel < .75"		
	12								
	14								No elev HNU in hole
						br	med sand gravel < .5"		
	16								
	18					br	med sand gravel to 2.5"		
						br	med sand gravel to .5"		
	20								
	22								
	24								

REMARKS: HNU background 4 ppm

BORING 227

PAGE 1 of 3

BORING LOG NUS CORPORATION

PROJECT: NWIRP Bethpage BORING NO.: 227
PROJECT NO.: 3281 DATE: 8-29-91 DRILLER: Joe Miranda - ADT
ELEVATION: FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
						br	med sand gravel to .5"		
	26								
	28								
	30								
	32								
	34								
	36								
	38								
	40					wt br	med sand little gravel		
	42								
	44								
		9 / 11				wt br	6" med sand		bottom 2" moist
2"	46	7 / 12	18"/24"			red rd br	6" ironstone gravel & sand 6" fine to med sand		HNU 8ppm spoon
		11 / 9				wt br	6" med sand gravel to .5"		saturated at 46'6
2"	48	13 / 7	12"/24"			red br	6" med sand		HNU = 8.5 ppm spoo
		4 / 5				rd br wt br	2" med sand 12" med sand		saturated spoon

REMARKS HNU background 4 ppm
48' ft Final water level

BORING 227

PAGE 2 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage — BORING NO.: 227
PROJECT NO.: 3281 — DATE: 8-29-91 — DRILLER: Joe Miranda - ADT
ELEVATION: — FIELD GEOLOGIST: R. Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
2"	50	6 5	18"/24"			gr	4" silty clay sand		HNU 6 ppm spoon
		7 5				wt br	12" med sand 7" black sandy clay		saturated.
2"	52	9 7	18"/24"			wt wt	.25" clay 4" med sand		sample at 1640.
						lt br	med sand		
	54						↓		
	56								

REMARKS At water level 52.5 ft, total depth 53' pulled up 5' auger - water level 48 ft total depth 55 ft

BORING 227

PAGE 3

BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE — BORING NO.: SB 225
PROJECT NO.: 3281 — DATE: 8-29-91 — DRILLER: RICH BEAUMAN (ADT)
ELEVATION: — FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS/6" OR RQD (%)	SAMPLE RECOVERY/SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CONSISTENCY	REMARKS
	0.0			-1.0		D. BROWN	SILT & SAND		
	2.0					BROWN	SAND WITH SOME GRAVEL		
	4.0	12 / 26				BROWN	SAND WITH SOME GRAVEL	SW	
S-1 1415		34 / 30	2.0 / 2.0		V. DENSE	REDDISH BROWN	SAND AND GRAVEL	SW	S-1 3-5' & SENT TO LAB DAMP
	6.0						SAND IS F.NE - COARSE GRAVEL - SUB ROUNDED ≤1'		0PPM - HNU GRAVEL CONSIST MOSTLY
							GRAVEL SEAM		OF QUARTZ
	8.0						7-8.5'		
				8.5			SANDY CLAY - V. MOIST		
	10.0			9.5					
	12.0								
	14.0								
	16.0								
	18.0								
	20.0								
	22.0								
	24.0								

REMARKS MOBILE B57 R.G. 2¼" I.D HOLLOW STEM AUGERS. 140 lb HAMMER DROPPED 30" FOR SPLIT SPOON SAMPLES TO BE SENT TO LAB — 3" I.D SPOONS. 2" I.D SPOONS FOR LITHOLOGICAL SAMPLES

BORING SB 225

PAGE 1 : 2

BORING LOG **NUS CORPORATION**

PROJECT: BETHPAGE BORING NO.: SB 225
PROJECT NO.: 3281 DATE: 8-29-91 DRILLER: RICH BEAUMAN (ACT)
ELEVATION: FIELD GEOLOGIST: D. Yost
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	26.0					BROWN	SAND AND GRAVEL		
	28.0								
	30.0								
	32.0								
	34.0								
				35?		LT BROWN	SAND FINE-COARSE		
	36.0								
	38.0								
	40.0								
	42.0								
	44.0								
	46.0						GRAVEL RE ENTERS ?		
	48.0	23 / 23					SAND - FINE - COARSE WITH		GRAVEL IS SURROUNDED CONSISTING OF CHERT, QUARTZ
S-2 1444		49 / 47	1.9 / 2.0		V. DENSE	LT BROWN TAN	SOME GRAVEL TR RED SILT < 1/2 INCH	SW	S-2 47-49 Dup M-HNU SATURATED
	50.0	14 / 24							WATER 49 - DRILLER

REMARKS

BORING JR 225

PAGE 2 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: BETH PAGE — BORING NO.: SB 225
PROJECT NO.: 3281 — DATE: 8-29-91 — DRILLER: RICH BEAUMAN (ADT)
ELEVATION: — FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
S-3 1456		32 / 29	2.0 / 2.0			TAN-BROWN	FINE-COARSE SAND TR GRAVEL		S-349-51 SATURATED
	52.0					↓	TR SILT		OPPM-HNU
				53.0		↓	↓		
	54.0								
	56.0								
							BOTM 53'		

REMARKS SATURATION AT 47.
WELL SCREEN 43-53
WATER LEVEL 48'

BORING SB225

PAGE 3 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage — BORING NO.: 219
PROJECT NO.: 3281 — DATE: 8-29-91 — DRILLER: Joe Miranda - ADT
ELEVATION: — FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	0					dk br	12" med sand gravel to .5"		
						br	med sand gravel to .5"		
	2					br	med sand gravel to 1.5"		
		6 6				dk br br	6" sandy clay 12" sandy clay organic		No elev HNU
3"	4	4 7	24"/24"			br	6" coarse sand gravel to .75"		Sample at 0730
						br	coarse sand gravel to 1"		
	6								
	8								
	10					gr	clay sandy layer		
	12					br	coarse sand w/ brown clay		
	14								becoming less clayey
	16								
	18								
	20					br	coarse sand gravel to .5"		minimal clay
	22								
	24								

REMARKS: HNU Background = 4ppm
3'-5' sample 2-3" spoons spoon +2 → 6-6-4-7

BORING 219
PAGE 1 : 3

BORING LOG **NUS CORPORATION**

PROJECT: NWIRP Bethpage BORING NO.: 219
PROJECT NO.: 3281 DATE: 8-29-91 DRILLER: Joe Miranda - AOT
ELEVATION: FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE - OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
						br	coarse sand gravel to .5'		
	26								
	28								
	30								
	32								
	34								
	36								
	38								
	40								
	42					br	coarse sand lim. gravel		
	44								
		7 8							water at 46 ft
2"	46	6 5	12" / 24"			lt br	12" coarse sand		HNU 8ppm spoon
						lt br	coarse sand		
	48								water level 48.5

REMARKS water level 46 ft on auger
water level 48.5 ft total depth 54 ft
(w/augers in hole)

BORING 219

PAGE 2 of 3

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage — BORING NO.: 219
PROJECT NO.: 3281 — DATE: 8-29-91 — DRILLER: Joe Miranda - ADT
ELEVATION: — FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA: —
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (FT.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY-CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	SOIL OR ROCK USCS	REMARKS
	50					H br	coarse sand		
	52								
									54 total depth
	54								Sample @ 0908

REMARKS: 54 ft total depth.

BORING 219

PAGE 3 of 3

BORING LOG — **NUS CORPORATION**

PROJECT: NWIPP Bethpage — BORING NO.: 218
PROJECT NO.: 3281 — DATE: 8-29-91 — DRILLER: Joe Miranda - ADT
ELEVATION: — FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS/ 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	0					dk br	organic coarse sand		
						br	coarse sand gravel to .75"		
	2								
		4 5				bl	12" organic coarse sand		Sample @ 1020
3"	4	3 6	18"/24"			br	6" coarse sand gravel to 1"		HNU 5ppm spoon
						br	coarse sand gravel to 1"		
	6								
	8					red br	coarse sand less gravel		
	10								
	12								
	14								HNU in hole no elev
	16								
						br	minor brown clay		
	18					br	coarse sand gravel to 1"		
	20					br	coarse sand gravel to .5"		
	22								
	24								

REMARKS HNU Background 2ppm

BORING 218

PAGE 1 of 3

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage — BORING NO.: 218
PROJECT NO.: 3281 — DATE: 8-29-91 — DRILLER: Joe Miranda - ADT
ELEVATION: — FIELD GEOLOGIST: R Patarcity & Fred Ramser *
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
						br	coarse sand gravel to 5"		
	26								
	28								
	30								
	32								
						br	lighter brown		
	34								
	36								
	38								
									moist
	40								
	42					lt br	med. sand		
									water w/auger
	44								no spoon
		4							
		5							
* 2"	46	6	12" / 24"			lt br	coarse to fine sand w/gravel & silt		saturated
		7							
		7							
		5							
2"	48	6	12" / 24"						
		8							
		6							
		9							

REMARKS: water level 43 ft.

BORING 218

PAGE 2 of 3

BORING LOG **NUS CORPORATION**

PROJECT: NWIRP Dethpage BORING NO.: 218
PROJECT NO.: 3281 DATE: 8-29-91 DRILLER: Joe Miranda ADT
ELEVATION: FIELD GEOLOGIST: R Patarcik / F Ramser
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
2"	50	4/7	12"/24"			lt br	coarse to fine sand w/ gravel & silt		saturated
									Sample @ 1200
	52								

REMARKS water level at 43 ft

BORING 218

PAGE 3 of 3

BORING LOG **NUS CORPORATION**

PROJECT: NWIRP Bethpage BORING NO.: 217
PROJECT NO.: 3281 DATE: 8-29-91 DRILLER: Joe Miranda - ADT
ELEVATION: FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	0					br	6" fine sandy organic 6" coarse sand gravel to 1"		
						gr br	12" coarse sand gravel to 1"		
	2					dk br	med sand w/organic		
		4 5				dk br	18" med sand w/organic		
3"	4	4 3	24"/24"			br	6" coarse sand gravel to 1"		Sample at 1837
	6								

REMARKS HNU Background = 5 ppm

BORING 217

PAGE 1 : 1

BORING LOG **NUS CORPORATION**

PROJECT: NWIRP Bethpage BORING NO.: 215
PROJECT NO.: 3281 DATE: 8-29-91 DRILLER: Joe Miranda - ADT
ELEVATION: FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	0					br	coarse sand w black stain		
							↓		
	2						↓		
		2 3				br	12" coarse sand gravel to 2"		HNU 8ppm hole #1
3"	4	2 2	24" / 24"			br lt br	8" organic w/sand 4" coarse sand		Sample @ 1250.
						br	med to coarse sand gravel .75		
	6						↓		
							↓		
	8						↓		
							↓		
	10					br	med sand gravel to .75		more gravel
							↓		
	12						↓		
							↓		
	14						↓		
							↓		
	16						↓		
							↓		
	18						↓		
		9 5							No elev HNU
3"	20	4 7	12" / 24"			lt br	coarse sand gravel to 1"		Sample @ 1308
						lt br	med sand gravel to .5"		
	22						↓		
							↓		
	24						↓		

REMARKS 3'-5" spoon #2 → 2-3-4-2 orins #2 spoon #3 → 3-4-2-2
HNU background = 1 ppm

BORING 215

PAGE 1 of 3

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage — BORING NO.: 215
PROJECT NO.: 3281 — DATE: 8-29-91 — DRILLER: Joe Miranda - ADT
ELEVATION: — FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
						lt br	med sand gravel to .5"		
	26								
	28								
	30								
	32								
	34								
	36								
	38								
	40	9 / 11							moist at 41'
2"		8 / 13	12" / 24"			yell br	12" med sand		no elev HNU
	42	17 / 16							HNU 1.5 ppm spoon
2"		11 / 13	18" / 24"			yell br	16" med to coarse sand 2" iron stone gravel		very moist
	44	7 / 9							saturated at 45'
2"		11 / 9	14" / 24"			wt br wt	6" coarse sand gravel to .5" 8" med sand		HNU 2.0 ppm spoon
	46	10 / 11							Final water level
2"		9 / 23	18" / 24"			wt	18" med sand		saturated.
	48	6 / 9							HNU 1 ppm
2"		14 / 17	18" / 24"						saturated

REMARKS Final water level 47 ft. depth 52.5 ft

BORING 215

PAGE 2 of 3

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage
BORING NO.: 215
PROJECT NO.: 3281
DATE: 8-29-91
DRILLER: Joe Miranda - ADT
ELEVATION:
FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth/ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY-CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK CODE	REMARKS
	50				wt br		med sand		saturated
	52								52.5' well depth
	54								
	56								

REMARKS: Roll-up 2 ft auger from 55' to sample.

BORING 215

PAGE 3 of 3

BORING LOG — **NUS CORPORATION**

PROJECT: BETH PAGE — BORING NO.: SB 209
PROJECT NO.: 3281 — DATE: 8-30-91 — DRILLER: RICH BEAUMAN (ADT)
ELEVATION: — FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS CODE	REMARKS
	0.0					LIGHT BROWN	SILTY SAND WITH SOME GRAVEL WELL ROUNDED ≈1" dia		
	2.0			2.0		DARK BROWN	↓		
						REDDISH BROWN	SAND AND GRAVEL		
	4.0	9 15							
S-1 A45		24 32	16/20		DENSE	REDDISH BROWN	SAND AND GRAVEL	SW	S-1 3-5' DAMP
	6.0						SAND IS FINE-COARSE GRAVEL IS SUBROUNDED < 3"		OPPM - NAK
	8.0			8.0			SEAM OF GRAVEL - DRILLING		
							↓		
	10.0								
							GRAVEL		
	12.0			12.0			↓		
						BROWN	SAND AND GRAVEL		
	14.0								
	16.0								
	18.0								
	20.0								
	22.0								
	24.0								

REMARKS: MOBILE B57 RIG 3¼" I.D. H.S.A. 140 lb HAMMER DROPPED 30" FOR SPLIT SPOON SAMPLES. 3" I.D. SPOONS FOR SAMPLES TO BE SENT TO LAB 2" I.D. SPOONS FOR LITHOLOGICAL SAMPLES.

BORING SB 209

PAGE 1 of 2

BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE — BORING NO.: SB209
PROJECT NO.: 3281 — DATE: 8-30-91 — DRILLER: RICH BEAUMAN (ADT)
ELEVATION: — FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	UNIFIED SOIL CLASS. OR ROCK CLASS.	REMARKS
	26.0					REDDISH BROWN	SAND AND GRAVEL		
							SAND IS FINE-COARSE, GRAVEL SUBROUNDED <1'		
	28.0								
	30.0								
	32.0								
	34.0			34.0					
	36.0								
	38.0								
	40.0								
	42.0								
	44.0								
							BOTM 34.0		
	46.0								
	48.0								
	50.0								

REMARKS WELL SCREENED 22-32'
WATER LEVEL 23'

BORING SB209

PAGE 2 : 2

BORING LOG **NUS CORPORATION**

PROJECT: NWIRP Bethpage BORING NO.: 206
PROJECT NO.: 3281 DATE: 8-29-91 DRILLER: Joe Miranda-ADT
ELEVATION: FIELD GEOLOGIST: R Patorc Ej
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	0					br	6" fine sand organic 6" coarse sand gravel to 2"		
						dk br	coarse sand gravel to 1"		
	2					gray br	coarse sand gravel to 1"		
		2 3							Sample @ 1813
3"	4	4 2	15" / 24"			br	15" coarse sand gravel to 1" some organic		No clev HNU
	6								
							Boring #2		
							Same descrip		
	0								
	2								
		2 3							
3"	4	4 4	18" / 24"						
	6								

REMARKS

BORING 206

PAGE 1 : 1

BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE — BORING NO.: SB205
PROJECT NO.: — DATE: 8-28-91 — DRILLER: RICH BEAUMEN
ELEVATION: — FIELD GEOLOGIST: FRED WRAMSER
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CONSISTENCY	REMARKS
						D-BRN	TOP SOIL SANDY-SILT W/TR CLAY		ORGANIC MATERIAL .5'
	2					Light BRN	CLAYEY SILT W/GRAVEL <1' DIA		.5'-
S-1 1555	4	18 / 43			DENSE*	Light BRN	COARSE TO FINE SAND WITH SOME GRAVEL TR/SILT	SW	S-1 1555 0ppm HNu GRAVEL-ANGULAR TO ROUNDED
		53 / 65	1.5 / 2.0						GRAVELS ARE CHERT, QTZ, PLUTONIC COMPOS <3' dia
	6								
							GRAVEL ZONE @ 6.5' PER DRILLER		≈.3' DIA GRAVEL
	8								
							GRAVEL ZONE @ 9' PER DRILLER		
	10								
	12								
	14								
	16					D-BRN	MED-COARSE SAND WITH SOME GRAVEL GRAVEL <1' dia.		
	18								
	20								
	22								
	24				BRN		MORE GRAVEL NOTED BY DRILLER APPROX. 24' DEEP		WELL ROUND TO SUBANGULAR GRAVEL QTZ + CHERT
							AS ABOVE		

REMARKS MOBILE - B357 RIG. 140 lb HAMMER DROPPED 30", 3¼" ID HSA

BORING SB205

PAGE 1 : 3

* MAYBE AFFECTED BY GRAVEL SIZE + ABUNDANCE

BORING LOG — **NUS CORPORATION**

PROJECT: Beth Page — BORING NO.: SB205
PROJECT NO.: — DATE: 8-28-91 — DRILLER: Rich Beaumen
ELEVATION: — FIELD GEOLOGIST: Fred W. Ramser
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CLASS	REMARKS
	26						- As above		
	28								
	30								
	32								
	34								
	36								
	38								
	40								
	42					ORANGE TO RED	FINE TO COARSE SAND WITH TRACE CLAY 42'-44'	SW	MOTTLED GRADING FROM ORANGE TO RED WITH FINE LAYERS OF CLAY 42'-44'
S-2		17 / 27							S-2 42-44 MOIST
	44	32 / 39	1.8 / 2.0		V. DENSE				
S-3	46	19 / 26			V. DENSE	MOTTLED RED WHITE/TAN	FINE TO COARSE SAND WITH TRACE SILT INTERLAYED COARSE SANDS → MED TO FINE SAND	SW	S-3 45'-47' MOIST, VERY COARSE SAND LENS 2 in' thick
		28 / 24	1.0 / 2.0						
S-4	48	25 / 35				RED TAN/WHT	1 FT. OF FINE TO COARSE SAND W/ SILT BOTTOM SECTION FINE TO MED SAND W/ SILT	SW	S-4 HNU 3ppm 47-49'
		45 / 70	1.5 / 2.0		V. DENSE				
	50								

REMARKS

BORING SB205

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BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE — BORING NO.: SB205
PROJECT NO.: 3281 — DATE: 8-29-91 — DRILLER: RICH BEAUDOIN
ELEVATION: — FIELD GEOLOGIST: FRED RAMSER
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CONDITIONS	REMARKS
	52								
S-5		18 / 40			V. DENSE	TAN TO WHT	INTERLAYERED FINE TO COARSE SAND W/SOME SILT.	SW/SM	S-5 52'-54' 0.5ppm INTERLAYING DEFINED BY COLOR SATURATED
	54	51 / 81	2.0 / 2.0						
S-6									
	56			TD					
	58								
							TD @ 56'		
							W.L. @ 51' 1750 HRS		
							SCREEN INTERVAL 46' to 56'		

REMARKS

BORING SB205

PAGE 3 : 3

BORING LOG **NUS CORPORATION**

PROJECT: BETHPAGE BORING NO.: SB 204
PROJECT NO.: 3281 DATE: 8-29-91 DRILLER: RICH BERGMAN (ART.)
ELEVATION: FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	0.0			~1.0		DBROWN	HUMUS SAND, SILT		
	2.0					BROWN	SAND AND GRAVELS		
	4.0	22 / 35			DENSE	LIGHT BROWN	FINE TO COARSE SAND WITH SOME SILT AND FINE TO MED. GRAVEL	SW	SUB-ROUNDED TO SUB ANGULAR GRAVEL > .5" to 2" in dia.
S-4 OPIN		65 / 75	1.8 / 2.0						S1 - 3-5' & SENT TO LAB DAMP
	6.0								1.5 ppm HNU DUPLICATE SAMPLE ON ENGINEERING PARAMETERS
	8.0								
							GRAVEL ZONE PER DRILLER SAND WITH GRAVEL 50% GRA 50% SAND	SW	
	10.0								
	12.0						AMOUNT OF GRAVEL DECREASES. STILL AROUND 40%		
	14.0								
	16.0					D-BRN	SANDY CLAY W/SOME GRAVEL	SW	
	18.0								
	20.0						GRAVEL ZONE PER DRILLER		
	22.0								
	24.0								

REMARKS MOBILE B57 RIG. 3¼ INCH I.D. H.S.A. 140 lb HAMMER DROPPED 30" FOR SPLIT SPOON SAMPLES. 2" I.D. SPOONS FOR SAMPLES SENT TO LAB. 2" I.D. SPOONS FOR LITHOLOGICAL SAMPLES

BORING SB 204

PAGE 1 of

BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE — BORING NO.: SB 704
PROJECT NO.: 3381 — DATE: 8-29-91 — DRILLER: RICH BERGMAN CADET
ELEVATION: — FIELD GEOLOGIST: D. Yost
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CLASS	REMARKS
	26.0					LT. BROWN	SAND AND GRAVEL		
							SAND IS FINE-COARSE GRAVEL IS FINE-MEDIUM		
	28.0						SUBROUNDED		
	30.0						GRAVEL CONTENT		
							DECREASING WITH		
	32.0						DEPTH		
	34.0								
	36.0								
				37.0?		LT BROWN	SAND FINE-COARSE	SW	NO GRAVELS
	38.0								
	40.0								
	42.0								
	44.0								
	46.0								
	48.0	6 / 20				TAN	SAND-FINE-COARSE	SW	
S-2 0907		42 / 66	20 / 20			BROWN-WHITE	TR-SOME SILT, SOME V.FINE SUBROUNDED GRAVEL	SW	S-2 47-49' 2.2 PPM-NNU
	50.0	20 / 31				RED-			MOIST-V.MOIST

REMARKS

BORING SB 704

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BORING LOG NUS CORP

PROJECT: BETH PAGE BORING NO.: SB 204
PROJECT NO.: 3281 DATE: 8-29-91 DRILLER: RICHARDSON & AL
ELEVATION: FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
S3 0917		54 / 56	2.0 / 2.0		V. DENSE	TAN-WHITE	FINE-COARSE SAND SOME SILT TR CLAY	SW/SM	S-3 49-51 SATURATED
	52.0						FINE - COARSE SAND	SW	3.2 ppm - HNU
									COULD NOT TAKE SAM FROM 51-53 DUE TO
	54.0								RUNNING SANDS IN AUGERS
	56.0			56.0					
							ROTM - 56.0'		

REMARKS SATURATION - 49-50'+
WELL SCREENED 46-56'
WATER LEVEL 49.7'

BORING SB 204
PAGE 3 of —

BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE — BORING NO.: SB 202
PROJECT NO.: 3281 — DATE: 8-29-91 — DRILLER: RICH BEAUMAN (ART)
ELEVATION: — FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CLASS	REMARKS
	0.0			1.0		D. BROWN	SAND + SILT		
	2.0					BROWN	SAND AND GRAVELS		
	4.0	8 / 14							
S-1 1150		41 / 96	1.7 / 2.0		DENSE	LT BROWN	SAND AND GRAVEL TRACE SILT	SW	S-1 3-5' # SENT TO LAB DAMP
	6.0						SAND IS FINE-MEDIUM		OPPM-NAN
							GRAINED		
	8.0						GRAVEL IS SUBROUNDED MADE UP OF MOSTLY		
							QUARTZ < 2" IN DIAMETER		
	10.0								
	12.0								
	14.0								
	16.0								
	18.0								
	20.0								
	22.0								
	24.0								
							SANDY GRAVEL		GRAVEL SEAM - 25'

REMARKS MOBILE B57 R.C. 3¼" I.D. HSA. 140 lb HAMMER DROPPED 30" FOR SPLIT SPOON SAMPLES. 3" I.D SPOONS FOR SAMPLES TO BE SENT TO LAB. 2" I.D SPOONS FOR LITHOLOGICAL SAMPLES

BORING SB 202

PAGE 1 : 3

BORING LOG **NUS CORPORATION**

PROJECT: BETHPAGE BORING NO.: SB 202
PROJECT NO.: 3281 DATE: 8-29-91 DRILLER: RICH BEAUMAN (AD-)
ELEVATION: FIELD GEOLOGIST: D. Yost
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	26.0					LT BROWN	SAND AND GRAVEL	SW	(AS ABOVE)
	28.0								
	30.0								
	32.0								
	34.0								
				?35.0			SAND TR SILT		OUT OF GRAVEL 35' ?
	36.0						FINE-MEDIUM		
	38.0								
	40.0								
	42.0								
	44.0								
	46.0								
	48.0	15 / 22				BROWN	SAND - FINE COARSE AND GRAVEL	SW	
S-2 1215		22 / 22	1.8 / 2.0	48.7		BROWN	SILTY CLAY SOME SAND		S-2 47-40 DAMP-MOIST
	50.0	6 / 10				BROWN	CLAYEY SAND [illegible] THICK SILTY CLAY SOME SAND		0PPM-HNU

REMARKS

BORING SB 202

PAGE 2 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE — BORING NO.: SB 202
PROJECT NO.: 3261 — DATE: 8-29-91 — DRILLER: RICH BERNMAN (ADT)
ELEVATION: — FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
S-3 1225		18 / 35	2.0 / 2.0	48 L		BROWN	FINE - MEDIUM SAND - TR SILT	SW / SM	S-3 48-51 SATURATED
	52.0	16 / 33				WHITE-TAN	FINE SAND SOME SILT	SM	0ppm - HNU
S-4 1240		42 / 49	2.0 / 2.0			WHITE TAN	FINE - COARSE SAND TR	SW	S-4 51-53' SATURATED
	54.0						ORANGE SILT LENSES, 1/4 - 1/2 INCH		0ppm - HNU
	56.0			56.0					
							BOTM - 56.0'		

REMARKS WELL SCREEN 46-56
SATURATION IN SOILS AT ~49'
WATER LEVEL 50.3

BORING SB 202

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BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE — BORING NO.: SB 123
PROJECT NO.: 3281 — DATE: 8-28-91 — DRILLER: RICH BEAUMAN (ACT)
ELEVATION: — FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
	0.0					D. BROWN	SAND SOME GRAVEL TR SILT		TOP 2' HUMUS ORGANIC SOIL
	2.0			-2.0		↓	↓		
						REDDISH BROWN	SAND SOME GRAVEL	SW	
	4.0	8 / 13				TAN-BROWN	SAND SOME GRAVEL	SW	
S-1 K06		13 / 19	1.8 / 2.0		DENSE	TAN-BROWN	FINE-COARSE SAND SOME SILT, GRAVEL, TR CLAY	SW/SM	S-1 3-5' # SENT TO LAB DAMP - SLIGHTLY MOIST
	6.0								1ppm - HNU
	8.0								
									11-12 LARGE GRAVELS - COBBLES - DRILLER
	10.0								
	12.0								
	14.0								
	16.0								
	18.0								
	20.0	11 / 26					GRAVEL IS SUBROUNDED <2"		
S-2 1237		26 / 26	1.9 / 2.0		DENSE	TAN-BROWN	FINE-COARSE SAND AND F-MED GRAVEL	SW	S-2 19.5-21.5 # SENT TO LAB MOIST 0.5 PPM - HNU
	22.0								
	24.0								

REMARKS MOBILE B57 RIG 3¼ INCH I.D. HOLLOW STEM AUGERS. 140 lb HAMMER DROPPED 30" FOR SPLITSPOON SAMPLES. 3" I.D SPOONS FOR SAMPLES TO BE SENT TO LAB. 2" SPOONS FOR LITHOLOGICAL SAMPLES.

BORING SB 123

PAGE 1 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE — BORING NO.: SB 723
PROJECT NO.: 3281 — DATE: 8-27-91 — DRILLER: MICH BEAUMAN (ACT)
ELEVATION: — FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA: (Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (FT) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS CODE	REMARKS
	26.0					TAN-BROWN	SAND AND GRAVEL	SW	
							SAND IS FINE-COARSE GRAINED GRAVEL IS SURROUNDED < 1½ DIA		
	28.0								
	30.0								
	32.0								
	34.0								
				35.0?		LT BROWN	FINE-MED SAND TR COARSE SAND		
	36.0						TR GRAVEL - V. FINE SUBROUNDED		
	38.0								
	40.0								
	42.0								
		10 / 19				MOTTLED RED +	TR SILT 42-42.5		
S-3 1304	44.0	24 / 28	1.3 / 2.0		DENSE	WHITE	FINE-MEDIUM SAND	SW	S-3 42-44' 1.5 PPM-HNU
		15 / 20				TAN-WHITE	FINE-MEDIUM SAND	SW	MOIST - V. MOIST
S-4 1310	46.0	20 / 23	1.6 / 2.0		DENSE	RED	FINE-COARSE SAND	SW	S-4 44-46 COLOR GRADES 1.5 PPM-HNU TAN-LT-R
				47.0	DENSE	TAN-BROWN	SILTY CLAYEY SAND	SC	0.5' SATURATION .45-46 RED IN COLOR
	48.0	5 / 13		48.0	STIFF	MOTTLED BR GRAY	SILTY SANDY CLAY	CL	
S-5 1322		25 / 24	2.0 / 2.0	48.5	DENSE	REDDISH BROWN	SILTY SAND	SM	S-5 47-49' SATURATED
	50.0	10 / 21				REDDISH BROWN	SAND TR SILT SAND FINE-MEDIUM		0.5 PPM

REMARKS

BORING SB 723

PAGE 2 of 3

BORING LOG — **NUS CORPORATION**

PROJECT: BETH PAGE — BORING NO.: SB 123
PROJECT NO.: 3281 — DATE: 8-28-91 — DRILLER: RICH BEAUMAN (A.D.T.)
ELEVATION: — FIELD GEOLOGIST: D. Yost
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (Ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	UNIFIED SOIL CLASSIFICATION	REMARKS
S-6 1336		38 52	2.0 / 2.0			TAN-BROWN	SAND SOME SILT, CLAY		S-6 49-51 TAN-BROWN SATURATED
	52.0			52.0		↓	↓		CLAY GRAY IN COLOR ... INCONSISTANT THIN SEAMS
									OF CLAY FROM 50-51'. THIS CLAY CONTAINS SILT
	54.0								AND SAND.
							BOTM 52.0		

REMARKS WELL SCREENED 42-52'
WATER LEVEL - 46.5'

BORING SB 123

PAGE 3 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage — BORING NO.: 121
PROJECT NO.: 3281 — DATE: 8-27-91 — DRILLER: Joe Miranda - ADT
ELEVATION: — FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	UNIFIED SOIL CLASSIFICATION	REMARKS
	0					Black	cinders & gravel ≤ .75"		
						DK Br.	coarse sand organic gravel ≤ .75"		
	2						↓		
		3 5				Br.	16" sandy organic		
3"	4	2 6	24" / 24"			Br.	4" saturated grey clay 4" br sandy gravel ≤ .75"		Sample @ 1408
						lt br to br	coarse sandy gravel ≤ .75"		
	6						↓		
	8								
	10								
	12								
	14								
	16								
	18								
		9 11							HNU Spoon 20ppm Borehole 200
3"	20	16 12	14" / 24"		lt br to br.		coarse sand gravel to 2.5"		Sample @ 1415
					lt br		coarse sand gravel to .75"		
	22						↓		
	24								

REMARKS At 3'-5' 2 spoons taken Spoon #2 → 6-5-4-5 Same descrip.
HNU Background reading 6 ppm

BORING 121

PAGE 1 of 3

BORING LOG — **NUS CORPORATION**

PROJECT: NWRP Bethpage — BORING NO. 121
PROJECT NO.: 3281 — DATE: 8-27-91 — DRILLER: Joe Miranda - ADT
ELEVATION: — FIELD GEOLOGIST: R Fatarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (FT) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
						lt br	coarse sand gravel to .75"		
	26								
	28								
									HNU in hole 30ppm
	30								
	32								
						lt br.	coarse sand gravel to 1.5"		
	34								
	36								
	38								
						red br	coarse sand gravel to 1.5"		HNU 250ppm in hole
	40	6 / 4							
2"		7 / 9	12" / 24"			red br	12" fine sand no gravel		moist at 41 ft HNU 94ppm spoon
	42	9 / 11							
2"		13 / 19	12" / 24"			wt to rd br	12" fine sand no gravel		HNU 70ppm spoon
	44	11 / 12				wt to rd br	6" fine sand no gravel		
2"		13 / 10	12" / 24"			yellow br	6" fine sand no gravel		HNU 10ppm spoon
	46	12 / 21				yellow br	6" fine sand no gravel		
2"		31 / 30	18" / 24"			lt yell. br	12" fine sand no gravel		HNU 12ppm spoon
	48	17 / 19							
2"		13 / 17	21" / 24"			lt yell br	21" fine sand saturated		HNU 8ppm spoon

REMARKS At 50 ft - no water in auger stem
* 46' final water level

BORING 121

PAGE 2 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: LWIRP Bethpage — BORING NO.: 121
PROJECT NO.: 3281 — DATE: 8-27-91 — DRILLER: Joe Miranda - AVT
ELEVATION: — FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	UNIFIED SOIL CLASSIFICATION	REMARKS
	50					Hyell br	Fine sand no gravel		saturated.
	52								
	54								
									Sample @ 1653
	56								

REMARKS water level 49' total depth 54 ft at 1620
at 1640 water level 46 ft total depth 54 ft

BORING 121

PAGE 3 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE 8-26-91 KCK — BORING NO.: SB 119
PROJECT NO.: 3281 — DATE: 9-25-91 — DRILLER: RICHARD BENNMAN (ADT)
ELEVATION: — FIELD GEOLOGIST: D. Yost
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CLASS	REMARKS
	0.0					BROWN	SAND SOME GRAVEL		
	2.0								
	4.0	3 3							SAND IS MEDIUM-COARSE GRAINED SUB ROUNDED FINE GRAVEL
S-1 1140		3 3	1.5 / 2.0		LOOSE	TAN BROWN	SAND SOME GRAVEL	SW	S-1 3.5' & SENT TO LAB DAMP-MOIST
	6.0								8ppm-HNU CUTTINGS 5ppm-BREATHING SPACE
	8.0								
	10.0								
	12.0					TAN-BROWN	SAND SOME GRAVEL	SW	AS ABOVE GET TRACE OF BLACK MOTTLING IN SAND
	14.0								
	16.0								
	18.0								
	20.0	12 20					SAND IS FINE-COARSE GRAINED SAND IS SUBROUNDED		
S-2 1200		20 24	2.0 / 2.0		DENSE	TAN-LIT BROWN	SAND AND GRAVEL	SW	S-2 19-21 MOIST 10 ppm-HNU & SENT TO LAB
	22.0								
	24.0								

REMARKS: MOBILE B57 R.G. 140 lb HAMMER OVER 30 INCH DROP FOR SPLIT SPOON SAMPLES.

BORING SB 110

PAGE 1 of 2

BORING LOG — **NUS CORPORATION**

PROJECT: BETH PAGE — BORING NO.: SB 119
PROJECT NO.: 3261 — DATE: 8-26-91 — DRILLER: RICHARD BEAUMAN (ADT)
ELEVATION: — FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (FT.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	UNIFIED SOIL CLASSIFICATION	REMARKS
	26.0					TAN-	FINE TO COARSE SAND AND		
						BROWN	FINE SUB ROUNDED GRAVEL	SW	AS ABOVE
	28.0								
	30.0								
	32.0								
	34.0								
	36.0								
	38.0								
									COLOR IS MOTTLED
	40.0	14 / 14				ORANGE-RED-	FINE - COARSE SAND - SOME SUBROUNDED GRAVEL	SW	S-3 39-41 MOIST - SATURATED
S-3 1220		8 / 7	1.5 / 2.0		MEDIUM DENSE	BROWN-TAN	TR SILT		5 ppm-HNU COOL BOTTOM 2" SATURATE
	42.0	7 / 6		42.0		GRAY	CLAY TR SILT, FINE SAND	MH	
S-4 1225		6 / 10	2.0 / 2.0				V. FINE MICA FLAKES IN SAND		S-4 41-43 MOIST
	44.0			44.0		TAN-ORANGE-RED	FINE TO MED SAND TR SILT	SW	4ppm-HNU
		7 / 8							
S-5 1236	46.0	13 / 14	1.5 / 2.0			TAN-ORANGE-RED	F-MED SAND TR SILT	SW	S-5 44-46 MOIST - SATURATED
		11 / 11							5ppm-HNU SAND IS MOTTLED INCO
S-6 1245	48.0	18 / 20	2.0 / 2.0			TAN-ORANGE-RED	FINE - MEDIUM SAND TR SILT	SW	S-6 46-48 SATURATED
				49.0					HNU - NA
	50.0						BOTM 49.0		AUGER SINKS TO 50'

REMARKS 2 - 3" I.D SPOONS USED — JARS LOT # 05169106 FC2
4 - 2" I.D. SPOONS USED — SCREEN SET 39.5-49.5
BOTTOM OF HOLE - 49.0'

BORING SB 119

PAGE 2 : 2

BORING LOG — **NUS CORPORATION**

PROJECT: BETH PAGE — BORING NO.: SB115
PROJECT NO.: 3281 — DATE: 8-27-91 — DRILLER: RICH BEAUMAN (AOT)
ELEVATION: — FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
	0.0			0.5		BLACK	HUMIC MATERIAL + ROCK FILL		0.5' THICK
	2.0					BROWN	SAND SOME GRAVEL		
							GRAVEL IS SUBROUNDED < 1"		
	4.0	8 / 16					SAND: FINE - COARSE		
S1 0840		26 / 28	1.2 / 2.0		DENSE	BROWN	SAND AND GRAVEL	SW	S1 - 2-5' * SENT TO LAB DAMP
	6.0								3ppm-HNU
	8.0								
	10.0						SAND BECOMES		
							LT BROWN IN COLOR		
	12.0								
	14.0								
	16.0								
	18.0								
	20.0	12 / 18							
S-2 0900		23 / 21	2.0 / 2.0		DENSE	TAUNSH BRN	FINE TO COARSE SAND AND GRAVEL TR/silt	SW	S-2 19-21' 2ppm HNU BLK FINES (TRACE) MOIST
	22.0								* SENT TO LAB
	24.0						SAND GRADES TO		
							REDDISH BROWN		

REMARKS MOBILE B 57 R.6. 140 LB HAMMER DROPPED 30" FOR SPLIT SPOON SAMPLES. 2" I.D. SPOONS FOR SAMPLES SENT TO LAB. 2" SPOONS FOR LITHOLOGICAL SAMPLES. 3 1/4 INCH I.D. HOLLOW STEM AUGERS

BORING SB115

PAGE 1 : 3

BORING LOG **NUS CORPORATION**

PROJECT: EETH PAGG BORING NO.: SB 115
PROJECT NO.: 3281 DATE: 8-27-91 DRILLER: RICK BERGMAN (ADT)
ELEVATION: FIELD GEOLOGIST: C. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS/ 6" OR RQD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	26.0					REDDISH BROWN	SAND AND GRAVELS	SW	MOIST
							SAND FINE-COARSE GRAVELS - SUBROUNDED < 1' DIAMETER		
	28.0								
	30.0								
	32.0								
	34.0								
	36.0								
									OUT OF GRAVEL AT
	38.0			38.0?			FINE - MEDIUM SAND		38' ?
	40.0	24 / 30				RED-BROWN			MOIST - SATURATED
S-3 0919		44 / 48	1.8 / 2.0		V. DENSE	TAN WHITE	MOTTLE FINE TO MED. SAND W/TR SILT	SM/SW	S-3 39-41 3ppm HNU INTERLAYED RED, DRN, TAN
	42.0	30 / 32				WHITE	FINE - MEDIUM SAND. SOME SILT	SM	SAND GETS LAMINATIONS OF WHITE RED - TAN/
S-4 0934		48 / 49	1.8 / 2.0			ORANGE-BROWN	FINE - MEDIUM SAND TR SILT		S-4 41-43 1PPM - HNU
	44.0						SAND IS MOTTLED IN COLOR AND IS LAMINATED BROWN		MOIST - SATURATED 41-42' SILTY/GRAVEL BLA
		16 / 26				RED-BROWN	-ORANGE FINE - COARSE SAND TR SILT CLAY		POSSIBLE CONTAMINATI
S-5 0947	46.0	23 / 17	1.6 / 2.0			RED-BROWN	FINE - COARSE SAND TR SILT		S-5 44-46 SATURATED
				47.0		REDDISH BROWN	SILTY SANDY CLAY	ML/SC	1.4 PPM - HNU
	48.0	4 / 10		48.5		BROWN	SILTY SAND TR CLAY		SAND IS FINE
S-6 1008		17 / 19				BROWN	SAND WITH SOME SILT		S-6 47-49 SATURATED
	50.0								

REMARKS

BORING SB115

PAGE 2 OF 3

BORING LOG NUS CORPORATION

PROJECT: BETH PAGE BORING NO.: SB 115
PROJECT NO.: 3281 DATE: 8-27-91 DRILLER: RICK ZERMAN (ART.)
ELEVATION: FIELD GEOLOGIST: D. Yost
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS/ 6" OR RQD (%)	SAMPLE RECOVERY -SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
							AS ABOVE		
	52.0			52.0		BROWN	SAND TR SILT		SATURATED
							BOTM 52.0		

REMARKS WELL SCREENED FROM 42-52'. WATER LEVEL - 46'

BORING SB 115

PAGE 3 of 3

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage — BORING NO.: 113
PROJECT NO.: 3281 — DATE: 8-26-91 — DRILLER: Joe Miranda - AOT
ELEVATION: — FIELD GEOLOGIST: R Batarcity / Fred Ramser
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CLASS.	REMARKS
	0					Dk Br.	coarse sand w/gravel to 1"		
							↓		
	2								
		13 / 17				rd br	2" gray clay; coarse sand gravel to .75"		
3'	4	14 / 18	18" / 24"			yellow br.	12" med to fine sand w grvl to .5"		Sample @ 1145
						red br	coarse sand gravel to 1.5"		
	6						↓		
	8								
							↓		
	10					red br	coarse sand gravel to 2"		
							↓		
	12								
	14								
	16								
	18						↓		
		13 / 17							HNU spoon 4 ppm
3"	20	17 / 21	12" / 24"			lt br	coarse sand gravel < .5"		Sample @ 1210
							↓		
	22								
	24						↓		

REMARKS: HNU background = 3ppm

BORING 113

PAGE 1 : 2

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage — BORING NO.: 113
PROJECT NO.: 3281 — DATE: 8-26-91 — DRILLER: Joe Miranda - ADT
ELEVATION: — FIELD GEOLOGIST: R Potarcity / F. Ramser
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	UNCONFINED COMPRESSIVE STRENGTH	REMARKS
						Br	coarse sand gravel <.75"		
	26								
	28								
	30								
	32								
	34								
						br	Fine to med sand no gravel		
	36								
	38								
						red br	Fine to med sand		
	40	14 / 17				wt	2" Fine sand		
2"		17 / 13	14" / 24"			lt br	12" coarse sand		water saturated 5ppm spon
	42	8 / 11							
2"		13 / 15	14" / 24"			lt br	coarse sand clay trace		
	44								
		8 / 11							
2"	46	9 / 8	18" / 24"			br	coarse to fine sand		Saturated 4ppm HNU.
		2 / 3							
2"	48	2 / 2	12" / 24"			lt br	med & fine sand		mica Sample

REMARKS: HNU Background 3ppm
water level = total depth 48ft

BORING 113

PAGE 2 : 2

BORING LOG **NUS CORPORATION**

PROJECT: BETHPAGE BORING NO.: SB 112
PROJECT NO.: 3281 DATE: 8-26-91 DRILLER: RICH BEAUMAN (AOT)
ELEVATION: FIELD GEOLOGIST: FRED RAMSER
WATER LEVEL DATA :
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (Ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, Ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	UNIFIED SOIL CONSTITUENTS	REMARKS
	0.0					BLACK BRN	.5' BLACK HUMUS MATERIAL FINE TO COARSE SAND W/TR GRAVEL	SW	
	2.0								
	4.0	11 15							
S-1		19 14	2.0/2.0		DENSE	BRN	FINE TO COARSE GRAIN SAND W/ SUBANG. GRAVEL (CHERT AND OTHER GRAVEL)	SW	S-1 3-5' 2ppm HNU
	6.0								
	8.0								
	10.0								
	12.0								
	14.0								
	16.0								
	18.0								
	20.0	9 19							
		19 23	2.0/2.0		DENSE	BRN	FINE TO COARSE SAND AND GRAVEL WELL ROUNDED TO SUBANGULAR	SW	S-2 19-21' 15ppm HNU MOIST.
	22.0								
	24.0								
							As Above		

REMARKS 3¼ in ID HSA 140 lb HAMMER DROPED 30 INCHS
3.0 IN ID SPOONS FOR SAMPLES TO BE SENT TO LAB.
2.0 IN ID SPOONS FOR LITHOLOGIC SAMPLES

BORING 112 SB

PAGE 1 : 2

BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE — BORING NO.: SB 112
PROJECT NO.: 3281 — DATE: 8-26-91 — DRILLER: RICH BEAUMAN (ADT)
ELEVATION: — FIELD GEOLOGIST: FLR
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CLASS	REMARKS
	26						As Above		
	28								
	30								
	32								
	34								
									REDDISH ORANGE MATERIAL
	36								
	38								
	40	12 / 19 / 32 / 37				TAN-WHITE / MED	COARSE GRAIN SAND LAYER INTERLAYED RED FINE SAND TO SILT	SM	MOIST: 1PPM HNU
	42								
	44	15 / 20			DENSE	TAN	MEDIUM SAND SIZE TR/SILT	SP	MOIST TO SATURATED HIT WATER @ 44' 1PPM HNU
		29 / 26	1.5 / 2.0						
	46	11 / 18			DENSE	ORANGE TAN	VARIEGATED SAND/MED TO FINE GRAIN SAND TR/SILT	SP	SATURATED, TR OF MICA FLAKES TR OF BLACK MATERIAL 1 PPM HNU
		36 / 22	1.8 / 2.0						
	48								
	50						As Above		

REMARKS TD ~~50~~ FLR 51'
SCREEN AT 41' TO 51'

BORING 112SB

PAGE 2 : 2

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage — BORING NO.: 111
PROJECT NO.: 3281 — DATE: 8-26-91 — DRILLER: Joe Miranda - ADT
ELEVATION: — FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CLASS	REMARKS
	0					dk br	4" asphalt 6" gravel 2" organic sandy coarse		
						dk br	coarse sand organic		
	2					dk br to br	4" coarse sand organic coarse sand		
		7 / 17							
3"	4	21 / 12	21" / 24"			Br	coarse sand		Sample @ 1555
	6								
	8								
	10					Br	coarse sand gravel to 2.5"		
	12								HNU 6ppm in hole
	14								
	16								
	18								
		6 / 13				Br	6" coarse sand		
3"	20	11 / 17	18" / 24"			red Br	12" coarse sand gravel <1"		Sample @ 1630
						Br	coarse sand gravel <1"		
	22								
	24								

REMARKS: HNU 3ppm background

BORING 111

PAGE 1 : 3

BORING LOG **NUS CORPORATION**

PROJECT: NWIRP Bethpage BORING NO.: 111
PROJECT NO.: 3281 DATE: 8-26-91 DRILLER: Joe Miranda ADT
ELEVATION: FIELD GEOLOGIST: R Patorcik
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
						Br	coarse sand gravel to 1"		
	26								
	28								
	30								
	32					Br	med to fine sand		
	34					rd br	med to coarse sand		HNU 6ppm
	36								
	38	16 17				wt to lt br	4" fine sand		
2"		17 19	16" 24"			wt to rd wt	5" fine to med sand 6" fine sand w/iron stone		moist
	40	6 9				red br	8" fine sand		
2"		11 16	18" 24"			wt to lt br	10" fine sand		spoon saturated
	42					red br	coarse sand gravel to 2"		
	44								
									45.5 ft final water level
	46								
	48								

REMARKS At water level 47'10" total depth 48'5" - drilled 5 more feet

BORING 111

PAGE 2 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: MWRP Bethpage — BORING NO.: 111
PROJECT NO.: 3281 — DATE: 8-26-91 — DRILLER: Joe Miranda - ADT
ELEVATION: — FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CLASS	REMARKS
	50					red br	coarse soil gravel to 24		
							↓		
	52								sample at 1745
	54								

REMARKS: At 45.5 ft water level total depth 52 ft time 1725

BORING 111

PAGE 3 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage — BORING NO.: 110
PROJECT NO.: 3281 — DATE: 8-27-91 — DRILLER: Joe Miranda - ADT
ELEVATION: — FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS	REMARKS
	0					dk Br	6" sandy organic w/wood coarse sandy gravel <.75"		
	2						↓		
		7 / 9				Br	med to coarse sand gravel <.75"		
3"	4	13 / 30					↓		Sample @ 1735
						Br	med to coarse sand-gravel <.75"		
	6								
	8								
	10								
	12								
	14								
	16								
	18								
	20								
	22								
	24								

REMARKS at 3'-5' spoon #1 6-7-5-9 <10% recovery 2 borings, 3 spoons total Borings #2 had 6" concrete cover

BORING 110

PAGE 1 of 3

BORING LOG — NUS CORPORATION

PROJECT: NWIRP Bethpage — BORING NO.: 110
PROJECT NO.: 3281 — DATE: 8-27-91 — DRILLER: Joe Miranda - ADT
ELEVATION: — FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA: (Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	UNIFIED SOIL CLASSIFICATION	REMARKS
	26					yellow Br	coarse sand gravel <.75"		
	28								
	30								
	32								
	34					yellow Br.	coarse sand gravel to 1.5"		
	36					yellow Br.	coarse sand gravel to .75"		
	38					yellow Br.	med to fine sand		
	40	11 / 17				wt to lt br	12" fine sand		1900 hrs
2'		12 / 15	12" / 24"						Moist at 41 ft
	42	12 / 17				yellow Br	6' med sand		
2"		12 / 15	18" / 24"			wt to lt br.	12' fine sand		
	44	7 / 12				wt to lt br	12" fine sand		
2"		34 / 30	18" / 24"				6' fine sand w/gray clay		
	46					wt to lt br.	fine sand		
	48								water at 48 ft.
									sample @ 1955
	50								

REMARKS

BORING 110

PAGE 2 : 3

BORING LOG NUS CORPORATION

PROJECT: NWIRP Bethpage BORING NO.: 110
PROJECT NO.: 3281 DATE: 8-27-91 DRILLER: Joe Miranda - ADT
ELEVATION: FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS/ 6" OR RQD (%)	SAMPLE RECOVERY -SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
						wt to lt Br	fine sand		
	52								
									total well depth 53'
	54								
	56								

REMARKS Total well depth 53ft.

BORING 110

PAGE 3 of 3

BORING LOG — **NUS CORPORATION**

PROJECT: NWXRP Bethpage — BORING NO.: 104
PROJECT NO.: 3281 — DATE: 8-27-91 — DRILLER: Joe Miranda - ADT
ELEVATION: — FIELD GEOLOGIST: R Potarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CODE	REMARKS
	0					Black	coarse sandy organic Fill ?		
							↓		
	2					br	coarse sand gravel <.5"		
							↓		
	4								
	6								
							↓		
	8					br	coarse sand gravel <1"		
							↓		
	10								
	12								
							↓		
	14					br	coarse sand gravel <.5"		
							↓		
	16								
	18						↓		
		19/5							
3"	20	11/15	18"/24"			br	coarse sand gravel <.75"		Sample @ 0750
							↓		
	22								
	24						↓		

REMARKS HNU Background 6 ppm

BORING 104

PAGE 1 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: NWIRP Bethpage — BORING NO.: 104
PROJECT NO.: 3281 — DATE: 8-27-91 — DRILLER: Joe Miranda - ADT
ELEVATION: — FIELD GEOLOGIST: R Patorcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CONDITIONS	REMARKS
						Br	coarse sand gravel <.75"		
	26								
	28								
	30								
	32								
	34								
	36								
	38	10 / 12							moist @ 39'
2"		25 / 29	12" / 24"			wt to lt br.	Fine sand no gravel		no odor HNU
	40	39 / 40							
2"		41 / 52	12" / 24"			wt to lt br	Fine sand no gravel		HNU 8 ppm (Flash)
	42					wt to lt br	Fine to coarse sand		
	44								
	46								
	48								water level 48' @ 0845

REMARKS At 0845 water level 48' total depth 51.5 ft

BORING 104

PAGE 2 : 3

BORING LOG NUS CORPORATION

PROJECT: UWIRP Bethpage BORING NO.: 104
PROJECT NO.: 3281 DATE: 8-27-91 DRILLER: Joe Miranda - ADT
ELEVATION: FIELD GEOLOGIST: R Patarcity
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR RQD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	MATERIAL DESCRIPTION: COLOR	MATERIAL DESCRIPTION: MATERIAL CLASSIFICATION	USCS OR ROCK BROKENESS	REMARKS
	50					wt to lt br.	coarse to fine sand		
						red to lt br	coarse to med sand		
	52						↓		Sample @ 0915
	54								

REMARKS bailed dry - final water level 49.5 ft
total depth 51.5 ft.

BORING 104

PAGE 3 : 3

BORING LOG — **NUS CORPORATION**

PROJECT: BETHPAGE — BORING NO.: SB103
PROJECT NO.: 3281 — DATE: 8-26-91 — DRILLER: RICHARD BEAUMAN (ADT)
ELEVATION: — FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA:
(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (FT.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	UNIFIED SOIL CLASS.	REMARKS
	0.0						2" THICK SILT GRAVEL FILL		
	2.0					BROWN	SAND AND GRAVELS		
	4.0	5 / 14					GRAVEL FINE SURROUNDED SAND IS FINE-MEDIUM		
S-1 1430		13 / 18	1.5 / 2.0		MEDIUM DENSE	BROWN	SAND AND GRAVELS	SW	S1 3-5' # SENT TO LAB DAMP
	6.0								0.4 ppm-HNU
									GRAVEL IS MADE UP OF
	8.0								QUARTZ AND CHERT < 3/4 INCH
							SAND BECOMES		
	10.0						REDDISH BROWN		
	12.0								
	14.0								
	16.0								
	18.0								
	20.0	9 / 28					SAND IS FINE-COARSE GRAINED GRAVEL IS FINE AND SURROUNDED	SW	GRAVEL < 3/4 INCH IN DIAMETER CHERT + LS TRACE
S-2 1458		25 / 23	2.0 / 2.0		DENSE	REDDISH BROWN	SAND AND GRAVELS		S-2 19-21 # SENT TO LAB DAMP-MOIST
	22.0								1.4 ppm-HNU
	24.0								

REMARKS MOBILE B57 R.G. 140 lb HAMMER DROPPED 30 INCHES FOR SPLIT SPOON SAMPLES. 3" I.D SPLIT SPOONS FOR SAMPLES TO LAB

BORING SB103

PAGE 1 of 2

BORING LOG — **NUS CORPORATION**

PROJECT: ..... BORING NO.: SB 103
PROJECT NO.: 3281 DATE: 8-26-91 DRILLER: RICHARD BEAUMAN (ADT)
ELEVATION: ..... FIELD GEOLOGIST: D. YOST
WATER LEVEL DATA: .....
(Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR RQD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR RQD (%)	SAMPLE RECOVERY / SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION: SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	USCS OR ROCK CONSTITUENTS	REMARKS
	26.0					BROWN	SAND AND GRAVELS	SW	AS ABOVE
	28.0								
	30.0						GRAVEL AMT DECREASE AND SIZE OF GRAVEL DECREASES		
	32.0								
	34.0								
		8 / 12					SAND - FINE - COARSE GRAVEL - FINE, SUBROUNDED 1/2 INCH		
S-3 1517	36.0	13 / 11	1.5 / 2.0		MEDIUM DENSE	TAN-BROWN	SAND TR GRAVEL	SW	S-3 34-36 MOIST 0.5 ppm - HNU
	38.0								
	40.0	7 / 19					SAND FINE-MEDIUM GRAINED GRAVEL - FINE SUBROUNDED 1/2"		1 INCH REDDISH BROWN SILTY CLAY LENSE - 40.0
S-4 1530		30 / 24	1.8 / 2.0		MEDIUM DENSE	TAN-BROWN	SAND TR GRAVEL	SW	S-4 39-41 MOIST - U. MOIST
	42.0								
		8 / 15				TAN-BROWN	FINE - COARSE SAND TR V. FINE GRAVEL		
S-5 1545	44.0	23 / 27	2.0 / 2.0	44.0	DENSE	WHITE GRAY	FINE-MEDIUM SAND TR SILT CLAY, MICA FLAKES	SW	S-5 42-44 SATURATED 2 ppm - HNU
		14 / 23							
S-6 1555	46.0	24 / 30	2.0 / 2.0		DENSE	WHITE GRAY	AS ABOVE		44' to 46' S-6 3 ppm - HNU
	48.0								S-7 47-49
S-7			2.0	49.0					NO SPLIT SPOON TAKEN - WET SANDS
	50.0						BOTM 49.0'		

REMARKS WATER AT 43', OILY SHEEN ON THE WATER
2-3" SPOONS 4-2" SPOONS 49' OF DRILLING
SCREEN SET 38-48'

BORING SB 103

PAGE 2 : 2

NUS CORPORATION AND SUBSIDAIRES #1 **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281

SITE NAME: BETHPAGE NWIRP

SAMPLERS (SIGNATURE): [signature] [signature]

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOLATILES	TCL BNA	TAL METALS & CYANIDE				REMARKS
11903	8/26/91	1140		X	BP-SB-1-11903	5	3	1	1				SOILS
11303		1145		X	BP-SB-1-11303	(TR) ~~3~~ 5	3	(TR) 1	(TR) 1				Correction - Confirmed
11919		1200		X	BP-SB-1-11919	(TR) ~~5~~ 3	3	(TR) +	(TR) +				with P. Ioannides of General Physics 1500 hrs 08/28/91
11319		1210		X	BP-SB-1-11319	3	3						
10303		1430		X	BP-SB-1-10303	5	3	1	1				
10319		1458		X	BP-SB-1-10319	3	3						
11103		1555		X	BP-SB-1-11103	5	3	1	1				
11119		1630		X	BP-SB-1-11119	3	3						
01	8/22/91	—		X	BP-SB-01-TB	2	2						AQUEOUS TRIP BLANK

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	8/26/91 1830	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED to GENERAL PHYSICS AB # 2662716055	

NUS 448 F 8898

NUS CORPORATION AND SUBSIDAIRES #2 **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281

SITE NAME: BETHPAGE NW2RP

SAMPLERS (SIGNATURE): [signature] [signature] [signature]

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOLATILES						REMARKS
119	8/26/91	1330		X	BP-G-1-119	2	2						Temporary Wells
113	↓	1458		X	BP-G-1-113	2	2						↓

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	8/26/91 5:01	[signature]			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: Hand Delivered to H2M	

NUS CORPORATION AND SUBSIDAIRES #3 **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281

SITE NAME: BETHPAGE NWIRP

SAMPLERS (SIGNATURE): [signature] [signature]

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOLATILES						REMARKS
103	8/26/91	1654		X	BP-G-1-103	2	2						TEMP. WELLS
111	↓	1745		X	BP-G-1-111	2	2						↓
112	↓	1947		X	BP-G-1-112	2	2						
114	8/27/91	0915		X	BP-G-1 ~~114~~ 104 (TR) 9/3/91	2	2						
115	↓	1045		X	BP-G-1-115	2	2						
338	↓	1245		X	BP-G-3-338	2	2						
334	↓	1430		X	BP-G-3-334	2	2						↓

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	8/27/91 1655	[signature]			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: Hand Delivered to H2M	

NUS 4481 10/90

NUS CORPORATION AND SUBSIDAIRES #4 **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281

SITE NAME: BETHPAGE NWIRP

SAMPLERS (SIGNATURE): Terry Rogal, R G Patorcity, David A Yost

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOLATILES	TCL BNA	TAL METALS & CYANIDE				REMARKS
02	8/22/91	–		X	BP-SB-02-TB	2	2						AQUEOUS
11203	8/26/91	1745		X	BP-SB-1-11203	5	3	1	1				SOILS
11219	↓	1815		X	BP-SB-1-11219	3	3						↓
11419	8/27/91	0750		X	BP-SB-1-~~114~~ 104 19 (TR) 9/3/91	3	3						↓
11419	↓	0750		X	BP-SB-1-~~114~~ 104 19-D (TR) 9/3/91	3	3						↓
11503	↓	0840		X	BP-SB-1-11503	5	3	1	1				↓
11519	↓	0900		X	BP-SB-1-11519	3	3						↓
SD-2-01	↓	1000		X	BP-SD-2-01	5	3	1	1				SEDIMENTS
SD-2-01	↓	1000		X	BP-SD-2-01-D	5	3	1	1				↓
SD-2-02	↓	1030		X	BP-SD-2-02	5	3	1	1				↓
33803	↓	1020		X	BP-SB-3-33803	5	3	1	1				SOILS
33819	↓	1050		X	BP-SB-3-33819	3	3						↓
33403	↓	1215		X	BP-SB-3-33403	5	3	1	1				↓
33419	↓	1235		X	BP-SB-3-33419	3	3						↓

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rogal	8/27/91 1900	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED to General Physics AB# 9991555711	

NUS CORPORATION AND SUBSIDAIRES #5 **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281

SITE NAME: BETHPAGE NWIRP

SAMPLERS (SIGNATURE): Terry Rogatko [signature]

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOLATILES	TCL BNA	TAL METALS & CYANIDE	TAL METALS PRES. W/HNO3	CYANIDE PRES. W/NaOH		REMARKS
01	08/27/91	1515		X	BP-SB-01-FB	8	2	4	—	1	1		AQUEOUS VOLATILES PRES. W/ HCl
01	↓	1520		X	BP-SB-01-RB	8	2	4	—	1	1		↓ "
12103	↓	1408		X	BP-SB-1-12103	5	3	1	1				SOILS
12103	↓	1408		X	BP-SB-1-12103-D	5	3	1	1				↓
3 12119	↓	1415		X	BP-SB-1-12119	3	3						↓

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rogatko	8/27/91 1900	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED to GENERAL PHYSICS AB# 9991555711	

NUS 448 R/ 0890

NUS CORPORATION AND SUBSIDAIRES #6 **CHAIN OF CUSTODY RECORD**

PROJECT NO.:	SITE NAME:
3281	BETHPAGE NWIRP

SAMPLERS (SIGNATURE): David A. Yost, Terry Rogers

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	PH & TOC Pt Amber Glass	BULK DENSITY Qt Amber Glass	GRAIN SIZE Qt. Amber Glass	Moisture Content Qt Amber Glass			REMARKS
11503	08/27/91	0840		X	BP-SB-1-11503	4	1	1	1	1			

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rogers	8/27/91 1900	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED to NUS AB# 9991555722	

NUS CORPORATION AND SUBSIDAIRES #7 **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281

SITE NAME: BETHPAGE NWIRP

SAMPLERS (SIGNATURE): [illegible]

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOLATILES						REMARKS
121	8/27/91	1653		X	BP-G-1-121	2	2						TEMPORARY WELLS
329	↓	1920		X	BP-G-3-329	2	2						↓
110	↓	1955		X	BP-G-1-110	2	2						
304	8/28/91	1042		X	BP-G-3-304	2	2						
318	↓	1046		X	BP-G-3-318	2	2						
316	↓	1345		X	BP-G-3-316	2	2						
123	↓	1415		X	BP-G-1-123	2	2						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[illegible]	8/28/91 1700	[illegible]			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: HAND DELIVERED TO NZM	

NUS 440 R' 0890

NUS CORPORATION AND SUBSIDAIRES # 8 **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281

SITE NAME: BETHPAGE

SAMPLERS (SIGNATURE): Terry Rogers, R. Patel, David A. Yost, [illegible]

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOLATILES	TCL BNA (only)	TAL METALS & CYANIDE	TCL BNA & Pesticide /PCBs			REMARKS
03	8/22/91	-		X	BP-SB-03-TB	2	2						AQUEOUS
32903	8/27/91	1659		X	BP-SB-3-32903	5	3	-	1	1			SOILS (ALSO DO Pesticides /PCBs)
11003	↓	1735		X	BP-SB-1-11003-MS	5	3	1	1				THIS SAMPLE GETS (Matrix Spike /Matrix Spike Dup.)
31803	8/28/91	0820		X	BP-SB-3-31803	5	3	1	1				
31819		0840		X	BP-SB-3-31819	3	3						
30403		0825		X	BP-SB-3-30403	5	3	1	1				
30419		0900		X	BP-SB-3-30419	3	3						
12303		1206		X	BP-SB-1-12303	5	3	1	1				
12319		1237		X	BP-SB-1-123~~03~~19 (TR)	3	3						
31603		1210		X	BP-SB-3-31603	5	3	-	1	1			(ALSO DO Pesticides /PCBs)
31619	↓	1225		X	BP-SB-3-31619	3	3						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rogers	1830 (PS) 8/29/91	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED TO GENERAL PHYSICS AB # 9991555700	

NUS CORPORATION AND SUBSIDAIRES #9 **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281

SITE NAME: BETHPAGE

SAMPLERS (SIGNATURE): RJPatrick

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	PH & TOC	BULK DENSITY	GRAIN SIZE	MOISTURE CONTENT			REMARKS
11003	8/27/91	1735		X	BP-SB-1-11003	4	1	1	1	1			ENG. SAMPLES
31603	8/26/91	1210		X	BP-SB-3-31603	5	1	1	1	2			↓

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Najak	08/29/91 1830	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED TO NUS LAB AB# 9991555691	

NUS 440 F 10090

NUS CORPORATION AND SUBSIDAIRES #10 **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281

SITE NAME: BETHPAGE NWIRP

SAMPLERS (SIGNATURE): Fred W. Ramsey David A. Yost R. J. Patel

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOLATILES						REMARKS
229	8/28/91	1645		X	BP-G-2-229	2	2						TEMPORARY WELL
205	↓	1805		X	BP-G-2-205	2	2						↓
219	8/29/91	0908		X	BP-G-2-219	2	2						↓
204	↓	1015		X	BP-G-2-204	2	2						↓
218	↓	1200		X	BP-G-2-218	2	2						↓
202	↓	1318		X	BP-G-2-202	2	2						↓
215	↓	1425		X	BP-G-2-215	2	2						↓
225	↓	1524		X	BP-G-2-225	2	2						↓
227	↓	1740		X	BP-G-2-227	2	2						↓

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	8/29/91 1705	[signature]			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: HAND DELIVERED to H2M	

NUS CORPORATION AND SUBSIDAIRES #11 **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281

SITE NAME: BETHPAGE NWIRP

SAMPLERS (SIGNATURE): Fred W Ramser David A. Yost R S Patton

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	PH & TOC	BULK DENSITY	GRAIN SIZE	MOISTURE CONTENT			REMARKS
20403	8/29/91	0810		x	BP-SB-2-20403	4	1	1	1	1			ENG. SAMPLES
20403	↓	0810		x	BP-SB-2-20403-D	4	1	1	1	1			↓
21503	↓	1250		x	BP-SB-2-21503	8	1	2	2	3			↓

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rogers	8/29/91 1900	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED TO NUS LAB AB #9991555383	

NUS 440 R 0890

NUS CORPORATION AND SUBSIDAIRES #12 **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281

SITE NAME: BETHPAGE NWIRP

SAMPLERS (SIGNATURE): Fred W Ramser, David A. Yust, Terry Rojak

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOLATILES	TCL BNA (ONLY)	TAL. METALS & CYANIDE	TCL BNA & PESTICIDES/PCBS	Metals (TAL) Pres. w/HNO3	Cyanide Pres. w/NaOH	REMARKS
04	8/22/91	–		X	BP-SB-04-TB	2	2						AQUEOUS
20503	8/28/91	1555		X	BP-SB-2-20503	5	3	1	1				SOILS
22903	↓	1820		X	BP-SB-2-22903	5	3	–	1	1			(ALSO ANALYZE FOR Pesticides/PCBS)
21903	8/29/91	0730		X	BP-SB-2-21903	5	3	1	1				
21903		0730		X	BP-SB-2-21903-D	5	3	1	1				
20403		0810		X	BP-SB-2-20403	5	3	1	1				
21803 ~~20~~ (TC)		1020		X	BP-SB-2-21803	5	3	1	1				
02		1400		X	BP-SB-02-RB	8	2	4			1	1	AQUEOUS (VOAs Pres. w/HCl)
21503		1250		X	BP-SB-2-21503	5	3	1	1				SOILS
20203		1150		X	BP-SB-2-20203	5	3	1	1				
21519		1308		X	BP-SB-2-21519	3	3						
22503		1415		X	BP-SB-2-22503	5	3	1	1				SOIL ~~AQUEOUS (VOAs Pres. w/HCl)~~ (TC)
01		1537		X	BP-SB-01-PW	8	2	4			1	1	AQUEOUS (VOAs Pres. w/HCl)
22703		1507		X	BP-SB-2-22703	5	3	1	1				SOILS

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rojak	8/29/91 1900	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED to GENERAL PHYSICS AB# 9991555372	

NUS CORPORATION AND SUBSIDAIRES # 13 **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281

SITE NAME: BETHPAGE NWIRP

SAMPLERS (SIGNATURE): [illegible]

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	PH & TOC	BULK DENSITY	GRAIN SIZE	MOISTURE CONTENT			REMARKS
32803	8/30/91	0820		X	BP-SB-3-32803	7	1	2	2	2			ENG SAMPLE

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[illegible]	8/30/91 1630	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED to NUS LAB AB # 9991555405	

NUS 440 R/ 0890

NUS CORPORATION AND SUBSIDAIRES #14 **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281

SITE NAME: BETHPAGE NWIRP

SAMPLERS (SIGNATURE): [illegible]

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOLATILES							REMARKS
307	8/29/91	1819		X	BP-G-3-307	2	2							TEMPORARY WELL
328	8/30/91	1010		X	BP-G-3-328	2	2							↓
314	↓	1040		X	BP-G-3-314	2	2							↓
209	↓	1257		X	BP-G-2-209	2	2							↓

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	8/30/91 1530	[signature]			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: HAND DELIVERED to H2M	

NUS CORPORATION AND SUBSIDAIRES #15 **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281

SITE NAME: BETHPAGE NWIRP

SAMPLERS (SIGNATURE): [illegible] [illegible] [illegible] [illegible]

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOLATILES	TCL BNA (only)	TAL METALS & CYANIDE	TCL BNA, Pesticides/PCBs	TAL METALS PRES. w/HNO3	CYANIDE PRES. w/NaOH	REMARKS
05	8/29/91	-		X	BP-SB-05-TB	2	2						AQUEOUS
30703	8/29/91	1628		X	BP-SB-3-30703	5	3	1	1				SOILS
30719 (TR)		1700		X	BP-SB-3-30719	3	3						
20603		1813		X	BP-SB-2-20603	5	3	1	1				
20603		1813		X	BP-SB-2-20603-D	5	3	1	1				
21703		1837		X	BP-SB-2-21703	5	3	1	1				
31403	8/30/91	0820		X	BP-SB-3-31403	5	3	1	1				
32803		0820		X	BP-SB-3-32803-MS	5	3	1 (TR)	1	1			DO MS/MSD → (Also Analyze For Pesticide/PCBs)
32819		0830		X	BP-SB-3-32819	3	3						
20903		1145		X	BP-SB-2-20903	5	3	1	1				
03		1200		X	BP-SB-03-RB	8	2	4			1	1	AQUEOUS - VOLATILE PRES./HCl HOLD - Analyze if Rinsate Problem is detected.

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[illegible]	8/30/91 1630	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED TO GENERAL PHYSICS AB# 9991555416	

NUS 448 R[illegible] [illegible]0890

NUS CORPORATION AND SUBSIDAIRES # 16 **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281

SITE NAME: BETHPAGE NWIRP

SAMPLERS (SIGNATURE): Terry Ngah

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOLATILES	TCL BNA ONLY	TAL METALS & CYANIDE	BNA, PESTICIDES & PCBS	TAL METAL PRES. W/HNO3	CYANIDE PRES W/NaOH	REMARKS
01	04/30/91	–		X	BP-SS-01-TB	2	2						AQUEOUS
SS01	09/04/91	0820		X	BP-SS-1-0100	5	3	1	1				SOIL SAMPLES
SS02		0840		X	BP-SS-1-0200	5	3	–	1	1			(DO PEST./PCBs)
SS03		0930		X	BP-SS-1-0300	5	3	1	1				
SS03		0930		X	BP-SS-1-0300-D	3	3						
SS04		0955		X	BP-SS-1-0400	5	3	1	1				
SS05		1015		X	BP-SS-1-0500	5	3	1	1				
SS06		1030		X	BP-SS-1-0600	5	3	1	1				
SS25		1100		X	BP-SS-1-2500-MS	6	3	–	1	2			(DO PEST./PCBs). DO MATRIX SPIKE/ Matrix Spike Dup.
01		1415		X	BP-SS-01-FB	12	2	–	–	8	1	1	AQUEOUS VOAs PRES. W/HCl
01		1425		X	BP-SS-01-RB	12	2	–	–	8	1	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Ngah	09/04/91 1730	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED to ~~DATA~~ FOR ANALYSIS GENERAL PHYSICS AB# 9991555420	

NUS CORPORATION AND SUBSIDAIRES #17 **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281

SITE NAME: BETHPAGE NWIRP

SAMPLERS (SIGNATURE): Terry Rojah

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOLATILES (TX)	TCL BNA	TAL METALS & CYANIDE	TAL METALS PRES. W/ HNO3	CYANIDE PRES. W/ NaOH		REMARKS
02	8/29/91	-		X	BP-SS-02-TB	2	2						AQUEOUS
SS07	9/5/91	0845		X	BP-SS-2-0700	5	3	1	1				SOIL SAMPLES
SS08	↓	0905		X	BP-SS-2-0800	5	3	1	1				↓
02		1100		X	BP-SS-02-RB	8	2	4	-	1	1		AQUEOUS: HOLD! Analyze only if Rinsate Problems are detected! VOAs pres. w/ HCl
SS09		1200		X	BP-SS-2-0900	5	3	1	1				SOIL SAMPLES
SS10		1215		X	BP-SS-2-1000	5	3	1	1				↓
SS10		1215		X	BP-SS-2-1000-D	5	3	1	1				
SS11		1240		X	BP-SS-2-1100	5	3	1	1				
SS12		1300		X	BP-SS-2-1200	5	3	1	1				
SS13		1315		X	BP-SS-2-1300	5	3	1	1				
SS14	↓	1330		X	BP-SS-2-1400	5	3	1	1				↓

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rojah	9/5/91 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED to GENERAL PHYSICS FOR ANALYSIS AB# 9991555442	

NUS 448 RF 8890

NUS CORPORATION AND SUBSIDAIRES #18 **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281

SITE NAME: BETHPAGE NWIRP

SAMPLERS (SIGNATURE): Terry Rizzo

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOLATILES	TCL BNA	TAL METALS & CYANIDE	TCL BNA & PESTICIDES/PCBS	TAL METALS PRES W/HNO3	CYANIDE PRES. W/NaOH	REMARKS
03	8/31/91	—		X	BP-SS-03-T8	2	2						AQUEOUS
SS15	9/6/91	0750		X	BP-SS-2-1500	5	3	1	1				SOIL SAMPLES
SS16		0815		X	BP-SS-2-1600	5	3	1	1				
SS17		0840		X	BP-SS-2-1700	5	3	1	1				
SS18		0855		X	BP-SS-2-1800	5	3	1	1				
SS26		0910		X	BP-SS-2-2600	5	3	—	1	1			
SS26		0910		X	BP-SS-2-2600-D	5	3	—	1	1			
03		1200		X	BP-SS-03-RB	8	2	4	—	—	1	1	AQUEOUS; ANALYZE

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rizzo	9/06/91 1330	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED TO GENERAL PHYSICS FOR ANALYSIS. AB # 9991555685	

PROJECT NO.: 3281	SITE NAME: BETHPAGE NWIRP
SAMPLERS (SIGNATURE): [signature]	

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOLATILES	TCL BNA only	TAL METALS & CYANIDE	TCL BNA & Pesticides/PCBs	TAL METALS PCBs w/ HNO_3	CYANIDE PCBs w/ NaOH	REMARKS
04	8/30/91	–		X	BP-SS-04-TB	2	2						AQUEOUS
SS19	9/9/91	1230		X	BP-SS-3-1900	5	3	1	1				SOIL SAMPLES
SS20	↓	1300		X	BP-SS-3-2000	5	3	1	1				↓
SS 21		1330		X	BP-SS-3-2100	5	3	1	1				
SS 27		1400		X	BP-SS-3-2700	5	3	—	1	1			Also Do Pesticides & PCBs
SS 27		1400		X	BP-SS-3-2700-D	5	3	1	1				
SS 28		1430		X	BP-SS-3-2800	5	3	—	1	1			Also Do Pesticides & PCBs
04	↓	1600		X	BP-SS-04-RB	8	2	4	—	—	1	1	AQUEOUS HOLD! Analyze if Rinsate Problems Occur

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	9/9/91 1830	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED to GENERAL Physics FOR ANALYSIS AB# 9991555674	

NUS 448 REVISED 0890

NUS CORPORATION AND SUBSIDAIRES #20 **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281

SITE NAME: BETHPAGE NWIIRP

SAMPLERS (SIGNATURE): Terry Rzeha

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOLATILES	BNA ONLY	TAL METALS & CYANIDE	TCL BNA & Pesticides/PCBs	TAL METALS PRES. W/HNO3	CYANIDE PRES. W/NaOH	REMARKS
(TR) ~~04~~ 05	8/31/91	–		X	BP-SS-05-TB	2	2						AQUEOUS
SS22	9/10/91	0830		X	BP-SS-3-2200-MS	5	3	1	1				SOIL SAMPLES DO MATRIX SPIKE MATRIX SPIKE DUP.
SS 23		0900		X	BP-SS-3-2300	5	3	1	1				
SS 24		0930		X	BP-SS-3-2400	5	3	1	1				
SS 29		0945		X	BP-SS-3-2900	5	3	–	1	1			also Do Pesticides/PCBs
05		1015		X	BP-SS-05-RB	8	2	4	–	–	1	1	AQUEOUS: VOAs pres w/HCl to pH < 2 ANALYZE!
02		1130		X	BP-SB-02-PW	12	2	–	–	8	1	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rzeha	9/10/91 1330	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED TO GENERAL PHYSICS FOR ANALYSIS AB# 9991555663	

ORTEK CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Company Name: HALL[illegible]N NUS

Project No./Client 3281 / NWIRP BETHPAGE

Sampling Location: [illegible]

Sampler D. YOST

Bottle Size/Preservative: [illegible] VOA

No.: 3285

ORTEK Batch No.

Date	Time	Sample I.D./Description	No. of Bottles	Total	*Sample Type	ANALYSIS REQUESTED	Remarks	Lab Use Only ID Number
11-20-91	0830	HN25 DWS	2				[illegible]	
11-20-91	0849	HN29 DWS	2	2				
11-20-91	0918	RECHARGE BASIN DWS	2	2				

COMMENTS/SPECIAL INSTRUCTIONS:

WOULD LIKE RESULTS BY 11/22 - 11/25

☐ If Pb > 5ppm do TCLP

*Sample Type: S - Soil, SE - Sediment, SO - Solid, SW - Surface Water, DW - Drinking Water, WW - Wastewater, GW - Groundwater, H - Hazardous Liquid, A - Air, O - Oil, X - Other

Date Received:
Date Due: ☐RUSH (approved by lab)
Quotation #:
Purchase Order #:

Results To:

Billing Address:

Attention:

Phone: FAX

To Be Completed by Client

Seal Intact Upon Receipt by Sampling Co.: ☐Yes ☐No

Packed By:

Sealed For Shipping By: Seal #

CUSTODY TRANSFERS

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
1. [signature]	11-20-91				
2. [signature]					

Received for Laboratory:

Shipping Details - To Be Completed By ORTEK

Seal Intact Upon Receipt by Laboratory ☐Yes ☐No

Method of Shipment:

Contents Temperature ____ ° C Refrig. #

ORTEK
2400 West Mason Street
Green Bay, WI 54307-2438
(414) 496-2222

#1

NUS CORPORATION — **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281 | SITE NAME: BP

SAMPLERS (SIGNATURE): [illegible] D.A. [illegible]

STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA	BNA	Total Metals	Cyanide	Cr+6	Filt Metals	REMARKS
1001	12491	1300		X	BP-G-HN30-S		3	2	1	1	1	1	
1002		1300		X	BP-G-HN30-S-D		3	2	1	1	1	1	
1003		1330		X	BP-G-HN30-I		3	2	1	1	1	1	
1004		1530		X	BP-SW-01		3	2	1	1	1	1	
1005		1520		X	BP-SW-02		3	2	1	1	1	1	
1006		1510		X	BP-SW-03		3	2	1	1	1	1	
1007		1545		X	BP-RB-100		3	2	1	1	1	1	Analyze Rinsate Blank
1008		1550		X	BP-FB-100		3	2	1	1	1	1	Field Blank
1009		1205		X	Trip Blank 100		3						Trip Blank
													* Short turnaround
													Hexavalent Chromium
													Airbill # 3742090936
													Federal Express

RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
[illegible]	12-4-91 18:30				
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME:	REMARKS:	

NUS 440 34 0494

NUS CORPORATION **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281 SITE NAME: BP

SAMPLERS (SIGNATURE): RSRPatts D.A. Yost

2/5/91 RP 2-12-91

STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA	BNA	Filt Total Metals	no filt total metals	Cyanide	Cr+6	REMARKS
1010	12-4-91	0853		X	BP-G-PW-15	9	3	2	1	1	1	1	
1011		0825		X	BP-G-PW-13	9	3	2	1	1	1	1	
1012		0915		X	BP-G-PW-10	9	3	2	1	1	1	1	
1013		0925		X	BP-G-PW-11	9	3	2	1	1	1	1	
1014		1355		X	BP-G-HN-25S	9	3	2	1	1	1	1	
1015		1355		X	BP-G-HN-25S-MS	9	3	2	1	1	1	1	Do MS
1016		1355		X	BP-G-HN-25S-MSD	9	3	2	1	1	1	1	Do MSD
1017		1225		X	BP-G-HN-25-I	9	3	2	1	1	1	1	
1018		1225		X	BP-G-HN-25-I-D	9	3	2	1	1	1	1	
1019		1645		X	BP-RB-101	9	3	2	1	1	1	1	Do not analyze as per NEESA
1020		1710		X	BP-TB-101	3	3						Trip Blank
													Shipped under Fed Exp airbill No 3742090940

RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RSRPatts	12-5-91 1930				
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME:	REMARKS:	

NUS 440 34 0484

NUS CORPORATION — **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281

SITE NAME: BETHPAGE

SAMPLERS (SIGNATURE): D. Yost, RPetts

STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	HARDNESS/ALK.	BOD	COD	pH	TOC	SPECIAL	REMARKS
RB 101	12/5/91	1225		x	BP-RB101	5	1	1	1		2		RINSATE BLANK
FB101	"	1225		x	BP-FB101	6	1	1	1	1	2		FIELD BLANK

RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RPetts	1930 12/5/91				
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME:	REMARKS: Shipped under Fed Exp	

NUS CORPORATION — **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281 | SITE NAME: BP.

SAMPLERS (SIGNATURE): R Patty | D. Yost

STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Hardness	Alkalinity	TOC	TDS	TSS	BOD	COD	pH	REMARKS
HN25I	12-5-91	1225		X	~~BP~~ BPG-HN25I	9	1	1	2	1	1	1	1	1	
				X	BP-RB-101										~~Rinsate Blank~~ DAY
				X	BP-FB-101										~~Field Blank~~ DAY
HN25I	12-5-91	1215		X	BP-G-HN25 I-D	9	1	1	2	1	1	1	1	1	

RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
R Patty	12-5-91 1930				
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME:	REMARKS: Shipped Under Fed Ex	

*3

NUS CORPORATION — **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281 — SITE NAME: BP

SAMPLERS (SIGNATURE): [signature] [signature] D.A. Yost

STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA	BNA	Filt metals	no filt metals	Cyanide	Cr+6	REMARKS
1021	2691	0900		X	BP-G-HN 26 S	9	3	2	1	1	1	1	
1022		0800		X	BP-G-HN 26 I	9	3	2	1	1	1	1	
1023		1225		X	BP-G-HN 27 S	9	3	2	1	1	1	1	
1024		1145		X	BP-G-HN 27 I	9	3	2	1	1	1	1	
1025		1500		X	BP-G-RB-102	9	3	2	1	1	1	1	Analyze Rinsate Blank
1026		1540		X	BP-G-TB-102	1	1						*Only 1 VOA available for
													* trip blank.
													*Shipped under Fed Exp
													airbill NO 3742090973

RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
[signature]	12-6-91 1700				
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME:	REMARKS:	

NUS 440 34 0484

NUS CORPORATION — **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281 | SITE NAME: BP

SAMPLERS (SIGNATURE): RPS RP for Dave Yost

STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Hardness	Alkalinity	TSS	TDS	COD	BOD	TOC	pH	REMARKS
	12/6/91	1145		X	BP-G-27I	9	1	1	1	1	1	1	2	1	

Sp Shipped via Fed. Exp airbill No 3274209062

RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RPS	12-6-91 1700				
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME:	REMARKS:	

NUS 440 34 0484

#4

NUS CORPORATION — **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281

SITE NAME: BP

SAMPLERS (SIGNATURE): [signature]

STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA	BNA	Diss Fit Metals	Total Metals	Cyanide	Cr+6	REMARKS
1027	12-9-91	1200		X	BP-G-24I	9	3	2	1	1	1	1	
1028		1220		X	BP-G-24S	9	3	2	1	1	1	1	
1029		1615		X	BP-RB104	9	3	2	1	1	1	1	Rinsate Blank-Analyze.
1030		1630		X	BP-FB101	9	3	2	1	1	1	1	Field Blank
1031		1635		X	BP-TB104	3	3						Trip Blank
													Shipped via Fed Exp
													Airbill No 3742090984

RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
[signature]	12-9-91 1800				
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RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME:	REMARKS:	

NUS 440 34 0484

#5

NUS CORPORATION — **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281 SITE NAME: BP

SAMPLERS (SIGNATURE): [signature] [signature]

STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA	BNA	diss filt metals	total metals	Cyanide	Cr+6	REMARKS
1032	12-10-91	1520		X	BP-G-USGS	9	3	2	1	1	1	1	
1033		1610		X	BP-RB105	9	3	2	1	1	1	1	Rinsate Blank DO NOT ANALYZE AS PER NEESA
1034		0840		X	BP-G-HN 28S	9	3	2	1	1	1	1	
1035		0840		X	BP-G-HN 28S-D	9	3	2	1	1	1	1	
1036		0810		X	BP-G-HN 28I	9	3	2	1	1	1	1	
1037		1045		X	BP-G-HN 29S	9	3	2	1	1	1	1	
1038		1145		X	BP-G-HN-29I	9	3	2	1	1	1	1	
1039		1145		X	BP-G-HN-29I-MS	9	3	2	1	1	1	1	do matrix spike
1040		1145		X	BP-G-HN 29I-MSD	9	3	2	1	1	1	1	do matrix spike dupl.
1041		1830		X	BP-~~G~~-TB-105	3	3	~~2~~	~~1~~	RP 12-10-91			Trip Blank
													Shipped via Fed Exp
													Airbill No 3742091006
													(1)

RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
[signature]	12-10-91 1900				
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME:	REMARKS:	

NUS 440 34 0484

NUS CORPORATION — **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281

SITE NAME: BP

SAMPLERS (SIGNATURE): [illegible]

STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Hardness	Alk	BOD	COD	pH	TOC	TDS	TSS	REMARKS
—	12.10.91	1015		X	BP-G-HN295	10	1	1	1	1	1	3	1	1	
															Shipped via Fed Exp. Airbill No. 3742090995

RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
[illegible]	12-10-91 1900				
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME:	REMARKS:	

NUS 440 34 0484

#6

NUS CORPORATION — **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281 | SITE NAME: BP

SAMPLERS (SIGNATURE): [signature]

STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA	BNA	Total metals & cyanide				REMARKS
1042	12-11-91	0800		X	BP-SD-100	5	3	1	1				
1043		0825		X	BP-SD-200	5	3	1	1				
1044		0900		X	BP-RB-106	5	3	1	1				Analyze Rinsate Blank
1045		0910		X	BP-TB-106	3	3						trip blank
1046		0905		X	BP-FB-102	5	3	1	1				Field Blank For soil/seed
													Shipped via Fed Exp
													airbill # 3742091010

RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
[signature]	12-11-91 1500				
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME:	REMARKS:	

NUS 440 34 0494

#2

NUS CORPORATION — **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281 | SITE NAME: BP

SAMPLERS (SIGNATURE): [signature]

STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA	BNA	Tot metals	Filtrds metals	CN	Cr+6	REMARKS
4	2-12-92	1328		X	BP-G-NN-29-D	9	3	2	1	1	1	1	
5		1425		X	BP-G-NN-25-D	9	3	2	1	1	1	1	
6		1425		X	BP-G-NN-25-D-D	9	3	2	1	1	1	1	
7		1425		X	BP-G-NN-25-D-MS	9	3	2	1	1	1	1	matrix spike
8		1425		X	BP-G-NN25-D-MSD	9	3	2	1	1	1	1	
9		1225		X	BP-G-NN08-D (08)	9	3	2	1	1	1	1	
10		1510		X	BP-RB-501	9	3	2	1	1	1	1	Rinsate Blank
11		1515		X	BP-FD-501	9	3	2	1	1	1	1	Field Blank
12		545		X	BP-TB-501	3	3						Trip Blank

RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
[signature]	2-12-92 1900				
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME:	REMARKS: Shipped via Federal Express Airbill No. 3675308173	

NUS 440 34 0484

APPENDIX D

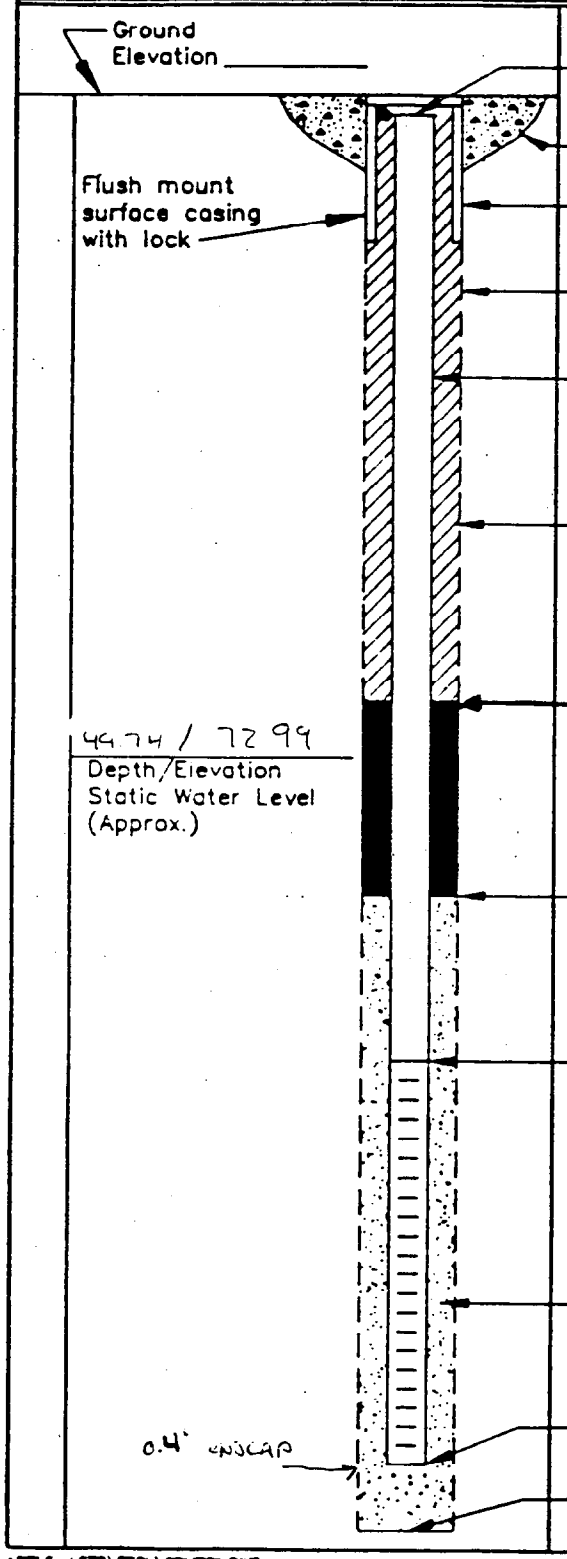
WELL CONSTRUCTION DIAGRAM SHEETS

NUS CORPORATION

WELL NO.: HN24S

OVERBURDEN MONITORING WELL SHEET

PROJECT: NWIRP BETHPAGE	LOCATION: BETHPAGE N.Y.	DRILLER: BILL JESTER
PROJECT NO.: 3281	BORING: HN24S	DRILLING METHOD: HSA
ELEVATION:	DATE: 9-4-91	DEVELOPMENT METHOD: SUBMERSIBLE PUMP
FIELD GEOLOGIST: FRED W RAMSER		



ELEVATION TOP OF RISER: 122.73

TYPE OF SURFACE SEAL: CEMENT

TYPE OF PROTECTIVE CASING: MANHOLE COVER

I.D. OF PROTECTIVE CASING: 9 INCH

BOREHOLE DIAMETER: 10"

TYPE OF RISER PIPE: PVC

RISER PIPE I.D.: 4 INCH

TYPE OF BACKFILL/SEAL: BENTONITE SLURRY

75 lbs Bentonite / 40 GAL WATER

DEPTH/ELEV. TOP OF SEAL 44.0 / 78.73

TYPE OF SEAL BENTONITE PELLETS

DEPTH/ELEVATION TOP OF SAND: 46.6 / 76.13

DEPTH/ELEVATION TOP OF SCREEN: 48.6 / 74.13

TYPE OF SCREEN: 4 INCH PVC

SLOT SIZE x LENGTH: 0.01 x 10'

TYPE OF SAND PACK: #1 GRAVEL

DEPTH/ELEVATION BOTTOM OF SCREEN: 58.6 / 64.13

DEPTH/ELEVATION BOTTOM OF SAND: 59.0 / 63.73

DEPTH/ELEVATION BOTTOM OF HOLE: 59.0 / 63.73

BACKFILL MATERIAL BELOW SAND: #1 GRAVEL

ACFILE: L870\GEOL\OBURD1.DWG

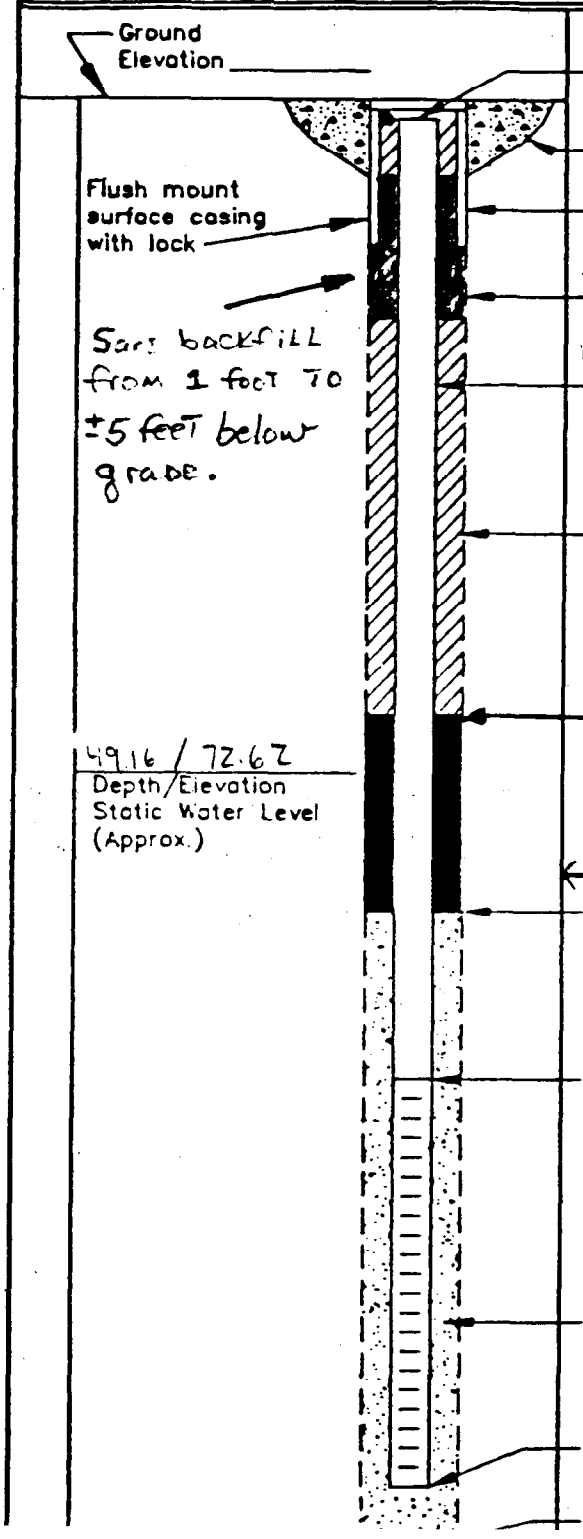
NUS CORPORATION

WELL NO.: HN-24 I

OVERBURDEN MONITORING WELL SHEET

PROJECT: BethPage NWIRP
LOCATION: BethPage, NY
PROJECT NO.: 3281
BORING: HN-24 I
ELEVATION:
DATE: 10-25-91
FIELD GEOLOGIST: Kevin Kilmartin / Dave Yost

DRILLER: Mike Pellegrino
DRILLING METHOD: Hollow-stem Auger (6.25" ID) — Delta Well & Drilling
DEVELOPMENT METHOD: Air Lift



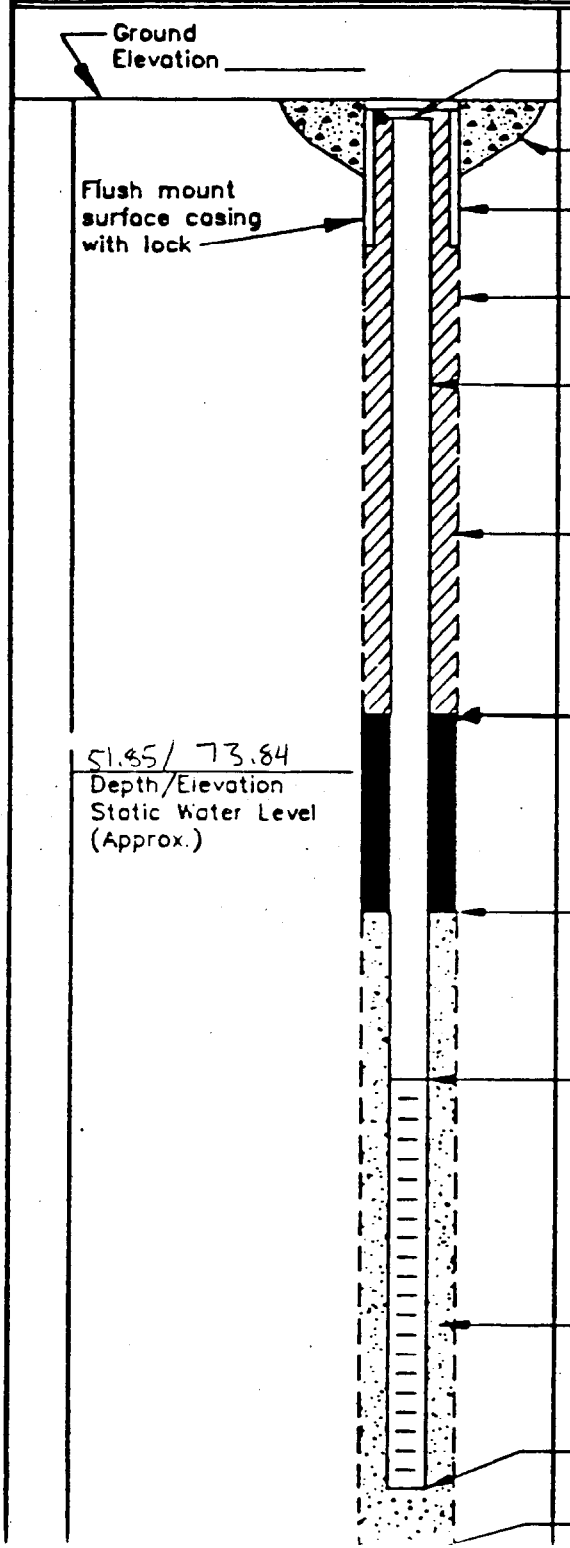
ELEVATION TOP OF RISER: 121.78
TYPE OF SURFACE SEAL: Concrete
TYPE OF PROTECTIVE CASING: Steel
I.D. OF PROTECTIVE CASING: 9 inch
BOREHOLE DIAMETER: 10"
TYPE OF RISER PIPE: Sched 40 PVC
RISER PIPE I.D.: 4-inch
TYPE OF BACKFILL/SEAL: Bentonite/Cement Grout
DEPTH/ELEV. TOP OF SEAL: 139 / -16.22
TYPE OF SEAL: Bentonite
TOP OF MASONRY SAND: 141
DEPTH/ELEVATION TOP OF SAND: #1 Morie: 144 / -22.22
DEPTH/ELEVATION TOP OF SCREEN: 148 / -26.22
TYPE OF SCREEN: Sched 40 PVC, 4 inch ID
SLOT SIZE x LENGTH: .010 Inch x 10 Feet
TYPE OF SAND PACK: #1 Morie Industrial
DEPTH/ELEVATION BOTTOM OF SCREEN: 158 / -36.22
DEPTH/ELEVATION BOTTOM OF SAND: 158 / -36.22
DEPTH/ELEVATION BOTTOM OF HOLE: 158 / -36.22

NUS CORPORATION

WELL NO.: HN25-S

OVERBURDEN MONITORING WELL SHEET

PROJECT: NWIRP BETHPAGE	LOCATION: BETHPAGE N Y	DRILLER: J. FLECK (UNITEC)
PROJECT NO.: 3281	BORING: HN25-S	DRILLING METHOD: HSA
ELEVATION:	DATE: 9-25-91	DEVELOPMENT METHOD: SUBMERSIBLE PUMP
FIELD GEOLOGIST: D. YOST		



ELEVATION TOP OF RISER: 125.69

TYPE OF SURFACE SEAL: CEMENT/GROUT

TYPE OF PROTECTIVE CASING: MANHOLE COVER

I.D. OF PROTECTIVE CASING: 9 INCH

BOREHOLE DIAMETER: 10 INCH

TYPE OF RISER PIPE: PVC

RISER PIPE I.D.: 4 INCH

TYPE OF BACKFILL/SEAL: BENTONITE/CEMENT GROUT

DEPTH/ELEV. TOP OF SEAL 45.0 / 80.69

TYPE OF SEAL BENTONITE PELLETS

DEPTH/ELEVATION TOP OF SAND: 47.0 / 78.69

DEPTH/ELEVATION TOP OF SCREEN: 49.0 / 76.69

TYPE OF SCREEN: 4 INCH PVC

SLOT SIZE x LENGTH: 0.01 x 10'

TYPE OF SAND PACK: #1 GRAVEL

DEPTH/ELEVATION BOTTOM OF SCREEN: 59.0 / 66.69

DEPTH/ELEVATION BOTTOM OF SAND: 59.3 / 66.39

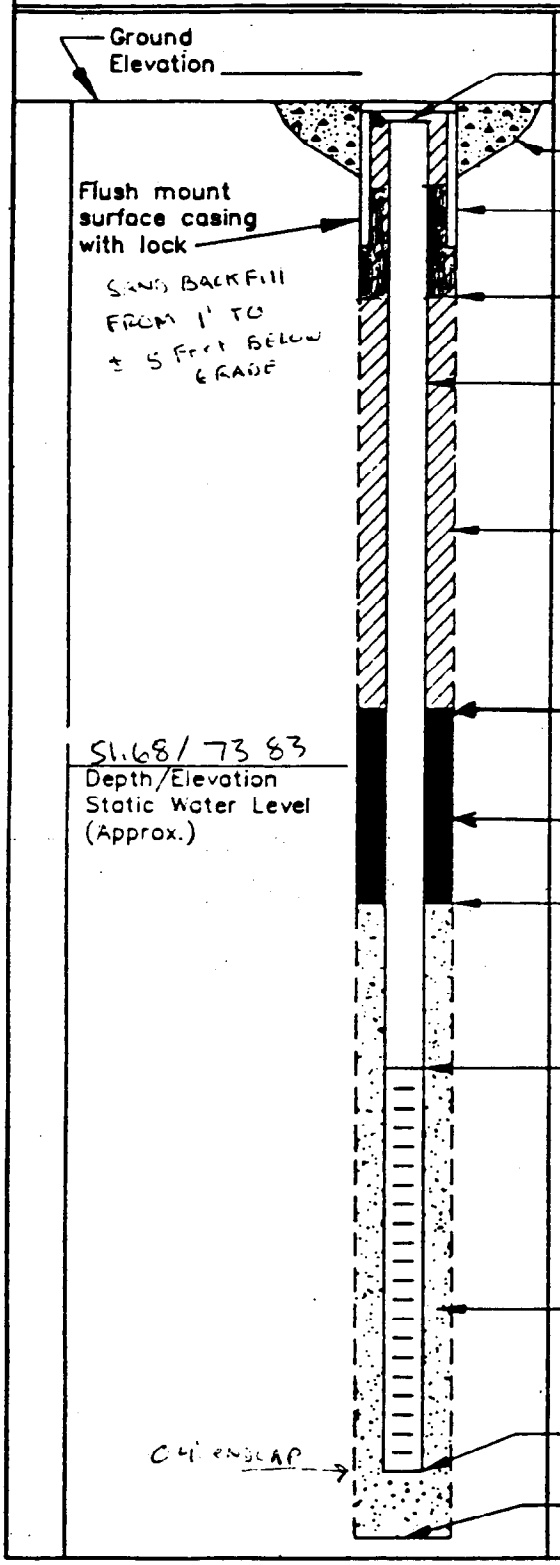
DEPTH/ELEVATION BOTTOM OF HOLE: 59.3 / 66.39

NUS CORPORATION

WELL NO.: HN 25-I

OVERBURDEN MONITORING WELL SHEET

PROJECT: NWIRP BETHPAGE	LOCATION: BETHPAGE N.Y	DRILLER: MIKE P. (DELTA)
PROJECT NO.: 3281	BORING: HN 25-I	DRILLING METHOD: HSA
ELEVATION:	DATE: 11-21-91	DEVELOPMENT METHOD: AIRLIFT
FIELD GEOLOGIST: DAVE YOST / KEVIN KILMARTIN		



ELEVATION TOP OF RISER: 125.51

TYPE OF SURFACE SEAL: CEMENT / GROUT

TYPE OF PROTECTIVE CASING: MANHOLE COVER

I.D. OF PROTECTIVE CASING: 9 INCH

BOREHOLE DIAMETER: 10"

TYPE OF RISER PIPE: PVC

RISER PIPE I.D.: 4 INCH

TYPE OF BACKFILL/SEAL: CEMENT / GROUT

DEPTH/ELEV. TOP OF SEAL 110' / 15.51

TYPE OF SEAL BENTONITE SLURRY

MASONARY SAND SEAL 113.4'

DEPTH/ELEVATION TOP OF SAND: 116 / 9.51

DEPTH/ELEVATION TOP OF SCREEN: 120' / 5.51

TYPE OF SCREEN: 4" PVC

SLOT SIZE x LENGTH: 0.010 x 10'

TYPE OF SAND PACK: #1 MORIE INDUSTRIAL

DEPTH/ELEVATION BOTTOM OF SCREEN: 130' / -4.49

DEPTH/ELEVATION BOTTOM OF SAND: 130.4 / -4.89

DEPTH/ELEVATION BOTTOM OF HOLE: 130.4 / -4.89

BACKFILL MATERIAL BELOW SAND: #1 MORIE INDUSTRIAL

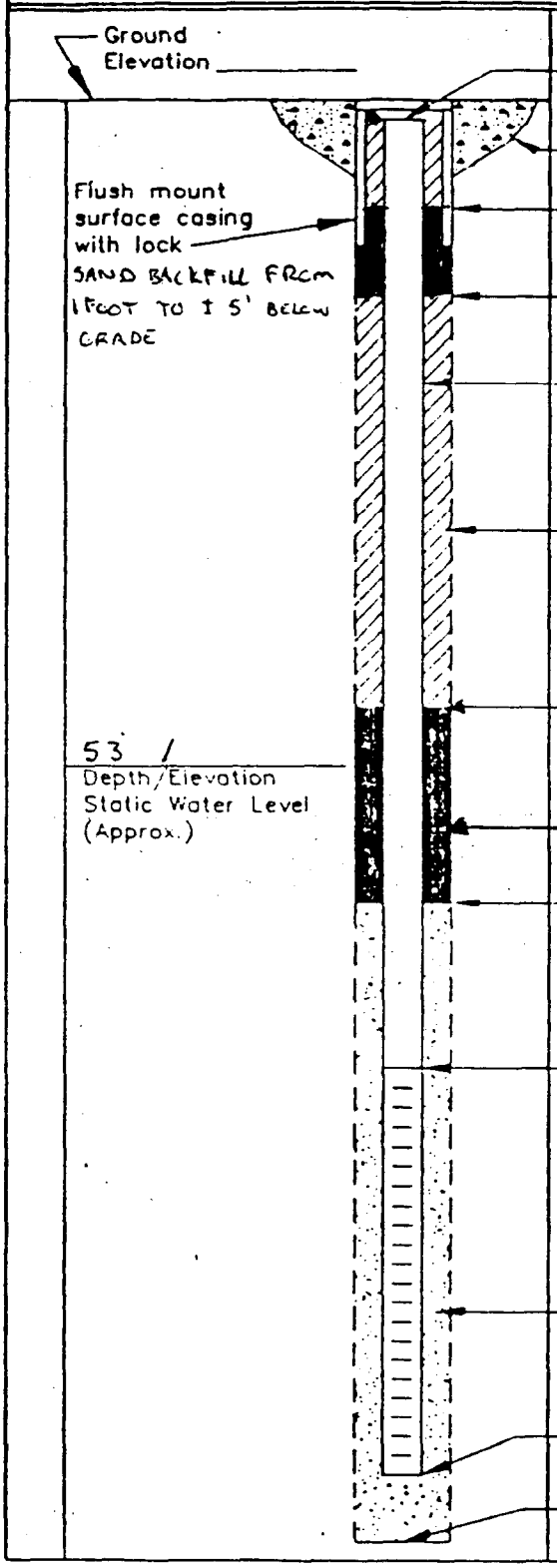
ACFILE: L670\GEOL\OBURD1.DWG

NUS CORPORATION

WELL NO.: HN25-D

OVERBURDEN MONITORING WELL SHEET

PROJECT: NWIRP BETHPAGE
LOCATION: BETHPAGE N.Y
DRILLER: MIKE P. (DELTA)
PROJECT NO.: 3281
BORING: HN25-D
DRILLING METHOD: MUD ROTARY / REVERSE WATER
ELEVATION:
DATE: 1-22-92
DEVELOPMENT METHOD: AIR LIFT
FIELD GEOLOGIST: D. YOST



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL: CEMENT

TYPE OF PROTECTIVE CASING: MANHOLE COVER

I.D. OF PROTECTIVE CASING: 9"

BOREHOLE DIAMETER: 8"

TYPE OF RISER PIPE: PVC

RISER PIPE I.D.: 4 INCH

TYPE OF BACKFILL/SEAL: BENTONITE SLURRY / CEMENT

DEPTH / ELEV TOP OF SEAL BENTONITE SLURRY SEAL 190.5 /

MASONARY SAND SEAL DEPTH / ELEV. 193.5 /

DEPTH/ELEVATION TOP OF SAND: 196.8 /

DEPTH/ELEVATION TOP OF SCREEN: 200 /

TYPE OF SCREEN: 4 INCH PVC

SLOT SIZE x LENGTH: 0.01 x 10'

TYPE OF SAND PACK: #1 MORIE SAND

DEPTH/ELEVATION BOTTOM OF SCREEN: 210 /

DEPTH/ELEVATION BOTTOM OF SAND: 210.3 /

DEPTH/ELEVATION BOTTOM OF HOLE: 210.3 /

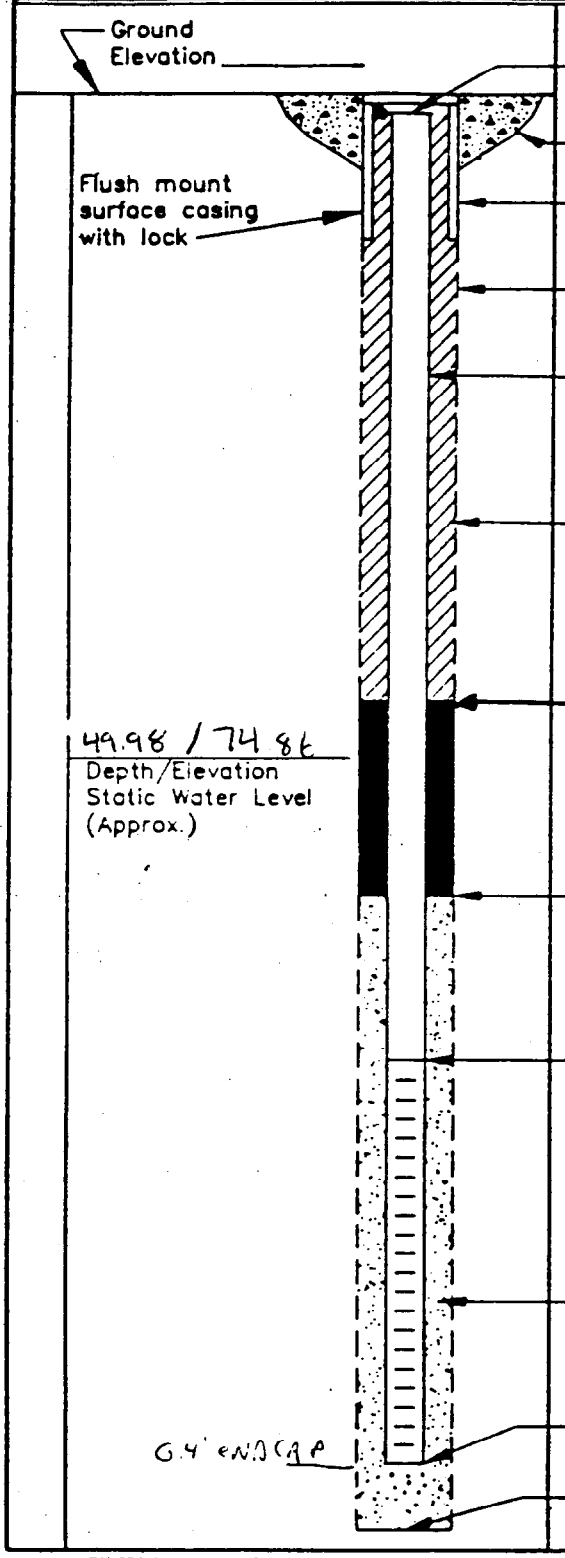
BACKFILL MATERIAL BELOW SAND: #1 MORIE SAND

NUS CORPORATION

WELL NO.: HN 26-S

OVERBURDEN MONITORING WELL SHEET

PROJECT: NWIRP BETHPAGE
LOCATION: BETHPAGE N.Y.
DRILLER: BILL JESTER
PROJECT NO.: 3281
BORING: HN 26-S
DRILLING METHOD: H.S.A.
ELEVATION:
DATE: 9-5-91
DEVELOPMENT METHOD: SUBMERSIBLE PUMP
FIELD GEOLOGIST: FRED RAMSER



ELEVATION TOP OF RISER: 125.00

TYPE OF SURFACE SEAL: CEMENT / GROUT

TYPE OF PROTECTIVE CASING: MANHOLE COVER

I.D. OF PROTECTIVE CASING: 9 INCH

BOREHOLE DIAMETER: 10 INCHES

TYPE OF RISER PIPE: PVC

RISER PIPE I.D.: 4 INCH

TYPE OF BACKFILL/SEAL: BENTONITE / CEMENT GROUT

DEPTH/ELEV. TOP OF SEAL 36.5 / 88.5

TYPE OF SEAL BENTONITE PELLETS

DEPTH/ELEVATION TOP OF SAND: 40.3 / 84.7

DEPTH/ELEVATION TOP OF SCREEN: 44.0 / 81.00

TYPE OF SCREEN: 4 INCH PVC

SLOT SIZE x LENGTH: 0.01 x 10'

TYPE OF SAND PACK: #1 GRAVEL

DEPTH/ELEVATION BOTTOM OF SCREEN: 54.0 / 71.00

DEPTH/ELEVATION BOTTOM OF SAND: 54.0 / 71.00

DEPTH/ELEVATION BOTTOM OF HOLE: 55.0 / 70.00

BACKFILL MATERIAL BELOW SAND: NATURAL

NUS CORPORATION

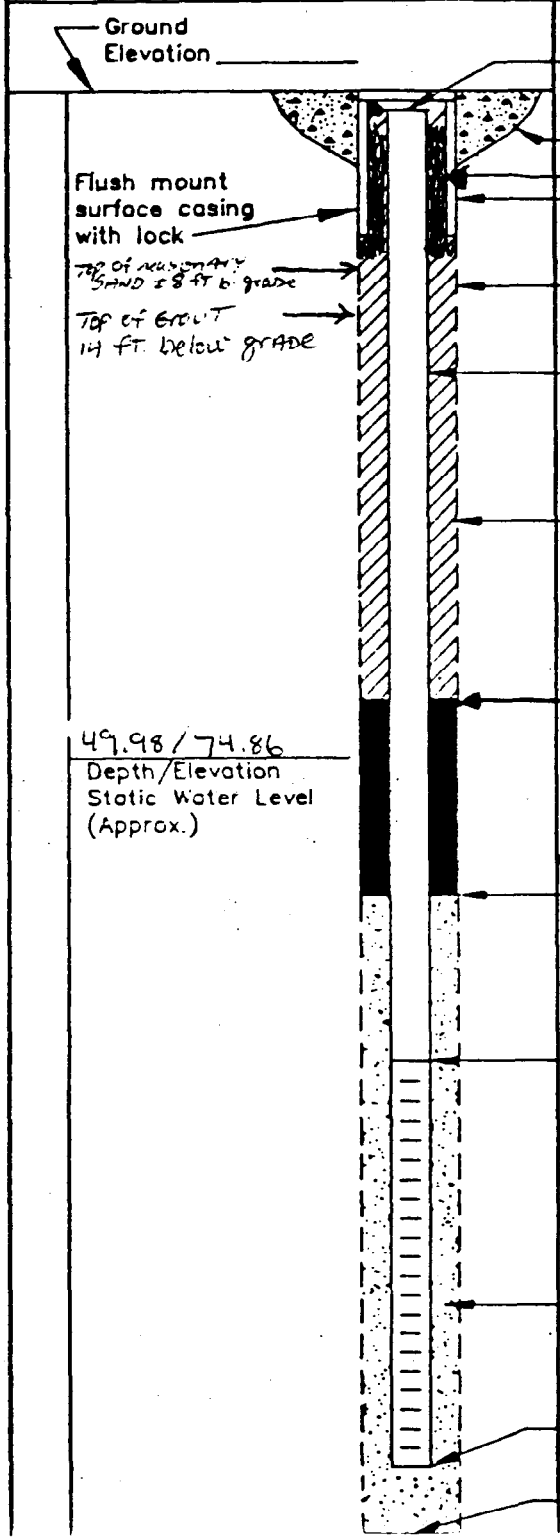
WELL NO.: HN-26I

OVERBURDEN MONITORING WELL SHEET

PROJECT: NWIRP BETHPAGE
PROJECT NO.: 3251
ELEVATION:
FIELD GEOLOGIST: KEVIN K. MARTIN

LOCATION: BETHPAGE N.Y.
BORING: HN26I
DATE: 10-30-91

DRILLER: MIKE P. (DELTA)
DRILLING METHOD: HSA
DEVELOPMENT METHOD: AIRLIFT



ELEVATION TOP OF RISER: 124.84

TYPE OF SURFACE SEAL: CEMENT
FILTER SAND TO 1 FEET below GRADE
TYPE OF PROTECTIVE CASING: STEEL 9" MANHOLE
I.D. OF PROTECTIVE CASING: 9"
BOREHOLE DIAMETER: 10"
TYPE OF RISER PIPE: Sch 40 PVC
RISER PIPE I.D.: 4-inch
TYPE OF BACKFILL/SEAL: Bentonite/cement grout
DEPTH/ELEV. TOP OF SEAL 106 / 18.84
TYPE OF SEAL Bentonite
Top of masonary SAND 109'
DEPTH/ELEVATION TOP OF SAND: 112' / 12.84
DEPTH/ELEVATION TOP OF SCREEN: 115' 3" / 9.59
TYPE OF SCREEN: 4-inch ID PVC Sch 40
SLOT SIZE x LENGTH: .010" X 10'
TYPE OF SAND PACK: #1 Morie
DEPTH/ELEVATION BOTTOM OF SCREEN: 125' 3" / -0.41
DEPTH/ELEVATION BOTTOM OF SAND: 126' / -1.16
DEPTH/ELEVATION BOTTOM OF HOLE: 155' / -30.16

NUS CORPORATION
A Halliburton Company

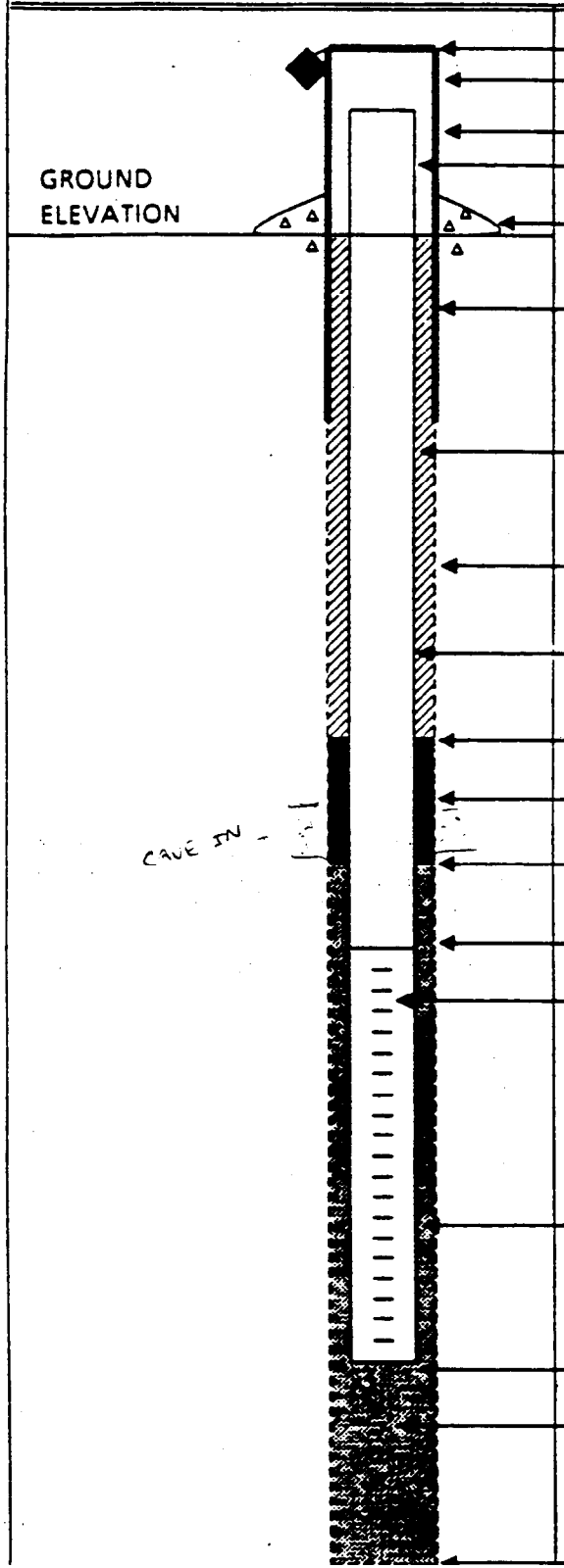
BORING NO HN27-5

OVERBURDEN
MONITORING WELL SHEET

PROJECT NWIRP BETHPAGE
PROJECT NO. 3281
ELEVATION
FIELD GEOLOGIST FRED RAMSER

LOCATION BETHPAGE NY
BORING HN27-5
DATE 9-4-91

DRILLER JAY FLECK
DRILLING METHOD HSA
DEVELOPMENT METHOD SUBMERSIBLE PUMP



ELEVATION OF TOP OF SURFACE CASING: N A
ELEVATION OF TOP OF RISER PIPE: 128.21

STICK - UP TOP OF SURFACE CASING:
STICK - UP RISER PIPE :

TYPE OF SURFACE SEAL: CEMENT / GROUT

I.D. OF SURFACE CASING: 6 INCH
TYPE OF SURFACE CASING: STANDPIPE

RISER PIPE I.D. 4 INCH
TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 10 INCH

TYPE OF BACKFILL: BENTONITE GROUT

ELEVATION / DEPTH TOP OF SEAL: 35.6

TYPE OF SEAL: BENTONITE PELLETS
CAVE-IN - 4' THICK

DEPTH TOP OF SAND PACK: 41.0

ELEVATION / DEPTH TOP OF SCREEN: 44.0

TYPE OF SCREEN: PVC

SLOT SIZE x LENGTH: 0.01 x 10'

I.D. OF SCREEN: 4 INCH

TYPE OF SAND PACK: #1 GRAVEL

ELEVATION / DEPTH BOTTOM OF SCREEN: 54.0

ELEVATION / DEPTH BOTTOM OF SAND PACK: 54.3
TYPE OF BACKFILL BELOW OBSERVATION WELL: #1 GRAVEL

ELEVATION / DEPTH OF HOLE: 54.3

NUS CORPORATION
A Halliburton Company

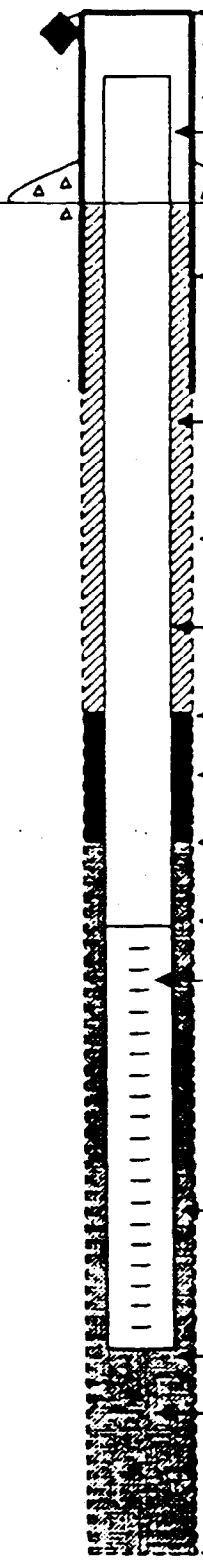
BORING NO HN ~~37~~ 27 I
DAY

OVERBURDEN MONITORING WELL SHEET

PROJECT NWIRP BETHPAGE
PROJECT NO. 3281
ELEVATION
FIELD GEOLOGIST D. YOST

LOCATION BETHPAGE L.I. N.Y.
BORING HN27-I
DATE 11-4-91

DRILLER MIKE P (DELTA)
DRILLING METHOD H.S.A.
DEVELOPMENT METHOD AIRLIFT



ELEVATION OF TOP OF SURFACE CASING: NA
ELEVATION OF TOP OF RISER PIPE: 128.59

STICK - UP TOP OF SURFACE CASING:
STICK - UP RISER PIPE:

TYPE OF SURFACE SEAL: CEMENT / GROUT

I.D. OF SURFACE CASING: 5¾" SQUARE INSIDE DIAMETER
TYPE OF SURFACE CASING: STAND PIPE

RISER PIPE I.D. 4 INCH
TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 10'

TYPE OF BACKFILL: CEMENT/BENTONITE GROUT

ELEVATION / DEPTH TOP OF SEAL: 90.9'

TYPE OF SEAL: MASONARY SAND - 93.9'
BENTONITE SLURRY - 90.9'

DEPTH TOP OF SAND PACK: 97'

ELEVATION / DEPTH TOP OF SCREEN: 100'

TYPE OF SCREEN: 4 INCH PVC

SLOT SIZE x LENGTH: 0.010 x 10'

I.D. OF SCREEN: 4 INCH PVC

TYPE OF SAND PACK: #1 SILICA SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: 110'

ELEVATION / DEPTH BOTTOM OF SAND PACK: 110'

TYPE OF BACKFILL BELOW OBSERVATION WELL: CUTTINGS - NATURAL COLLAPSE

ELEVATION / DEPTH OF HOLE: 155'

NUS CORPORATION

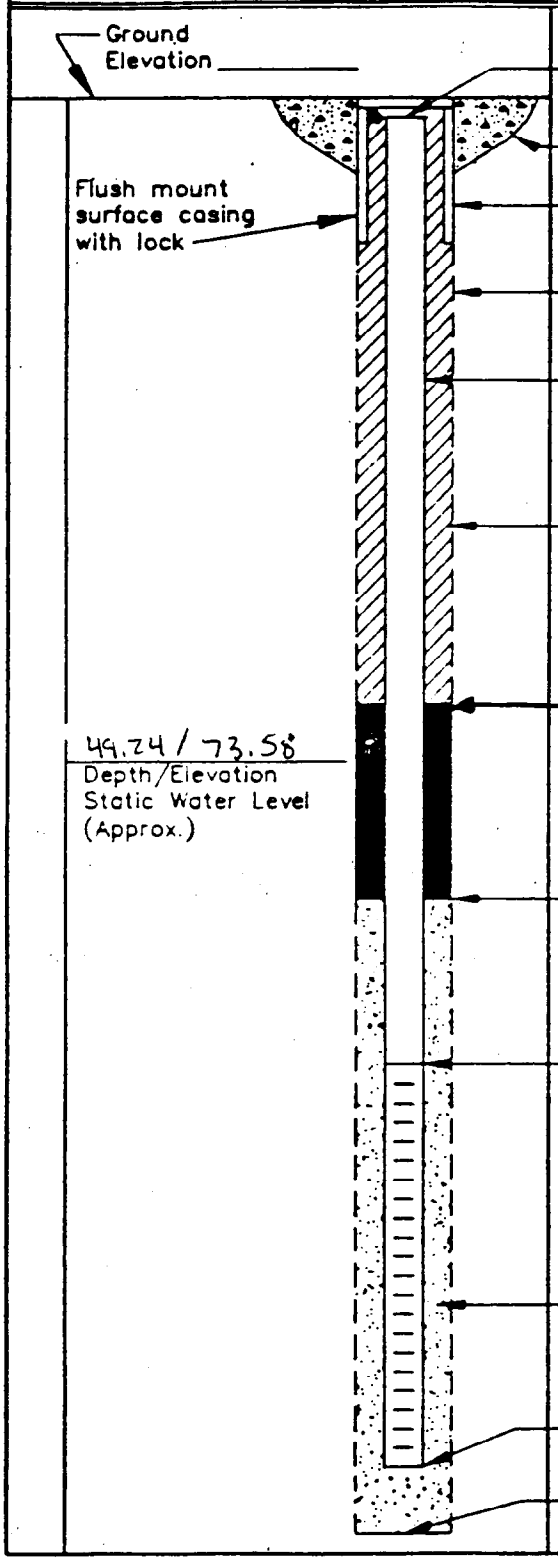
WELL NO.: HN28-S

OVERBURDEN MONITORING WELL SHEET

PROJECT: NWIRP BETHPAGE
PROJECT NO.: 3281
ELEVATION:
FIELD GEOLOGIST: D. YOST

LOCATION: BETHPAGE NY
BORING: HN28-S
DATE: 9-3-91

DRILLER: JAY FLECK / (UNITE)
DRILLING METHOD: HSA
DEVELOPMENT METHOD: SUBMERSIBLE PUMP



ELEVATION TOP OF RISER: 122.82

TYPE OF SURFACE SEAL: CEMENT / GROUT

TYPE OF PROTECTIVE CASING: MANHOLE COVER

I.D. OF PROTECTIVE CASING: 9 INCH

BOREHOLE DIAMETER: 10 INCH

TYPE OF RISER PIPE: PVC

RISER PIPE I.D.: 4 INCH

TYPE OF BACKFILL/SEAL: BENTONITE GROUT

DEPTH/ELEV. TOP OF SEAL: 40.0 / 87.82

TYPE OF SEAL: BENTONITE PELLET

DEPTH/ELEVATION TOP OF SAND: 42.0 / 80.82

DEPTH/ELEVATION TOP OF SCREEN: 44.0 / 78.82

TYPE OF SCREEN: 4 INCH PVC

SLOT SIZE x LENGTH: 0.01 x 10'

TYPE OF SAND PACK: #1 GRAVEL

DEPTH/ELEVATION BOTTOM OF SCREEN: 54.0 / 68.82

DEPTH/ELEVATION BOTTOM OF SAND: 54.3 / 68.52

DEPTH/ELEVATION BOTTOM OF HOLE: 54.3 / 68.52

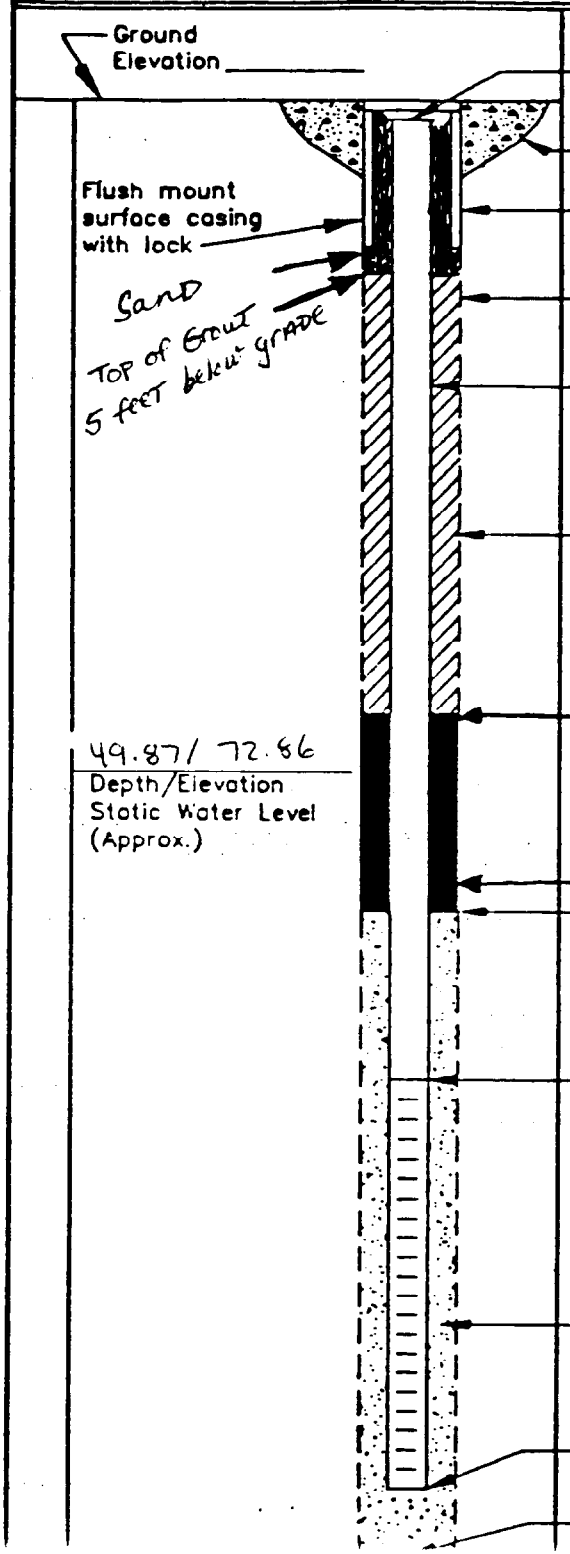
BACKFILL MATERIAL BELOW SAND: #1 GRAVEL

NUS CORPORATION

WELL NO.: HN-28I

OVERBURDEN MONITORING WELL SHEET

PROJECT: Bethpage NWIRP	LOCATION: Bethpage, NY	DRILLER: Delta: Mike P.
PROJECT NO.: 3281	BORING: HN-28 I	DRILLING METHOD: HSA
ELEVATION:	DATE: 11-8-91	DEVELOPMENT METHOD: Airlift
FIELD GEOLOGIST: Kevin Kilmartin / Dave Brayack		



ELEVATION TOP OF RISER: 122.73

TYPE OF SURFACE SEAL: Cement

TYPE OF PROTECTIVE CASING: Steel Manhole

I.D. OF PROTECTIVE CASING: ~~[illegible]~~ 9 Inch

BOREHOLE DIAMETER: 10"

TYPE OF RISER PIPE: Sched 40 PVC

RISER PIPE I.D.: 4-inch

TYPE OF BACKFILL/SEAL: Bentonite/Cement Grout

DEPTH/ELEV. TOP OF SEAL 124 / -1.27

TYPE OF SEAL Bentonite

DEPTH: Top of Masonry Sand 127 / -4.27

DEPTH/ELEVATION TOP OF SAND: 128 / -5.27

DEPTH/ELEVATION TOP OF SCREEN: 131 / -8.27

TYPE OF SCREEN: Sched 40, PVC, 4-inch ID

SLOT SIZE x LENGTH: .010 inch X 10 feet

TYPE OF SAND PACK: #1 Morie Sand

DEPTH/ELEVATION BOTTOM OF SCREEN: 141 / -18.27

DEPTH/ELEVATION BOTTOM OF SAND: 141.5 / -18.77

DEPTH/ELEVATION BOTTOM OF HOLE: 155 / -32.27

NUS CORPORATION
A Halliburton Company

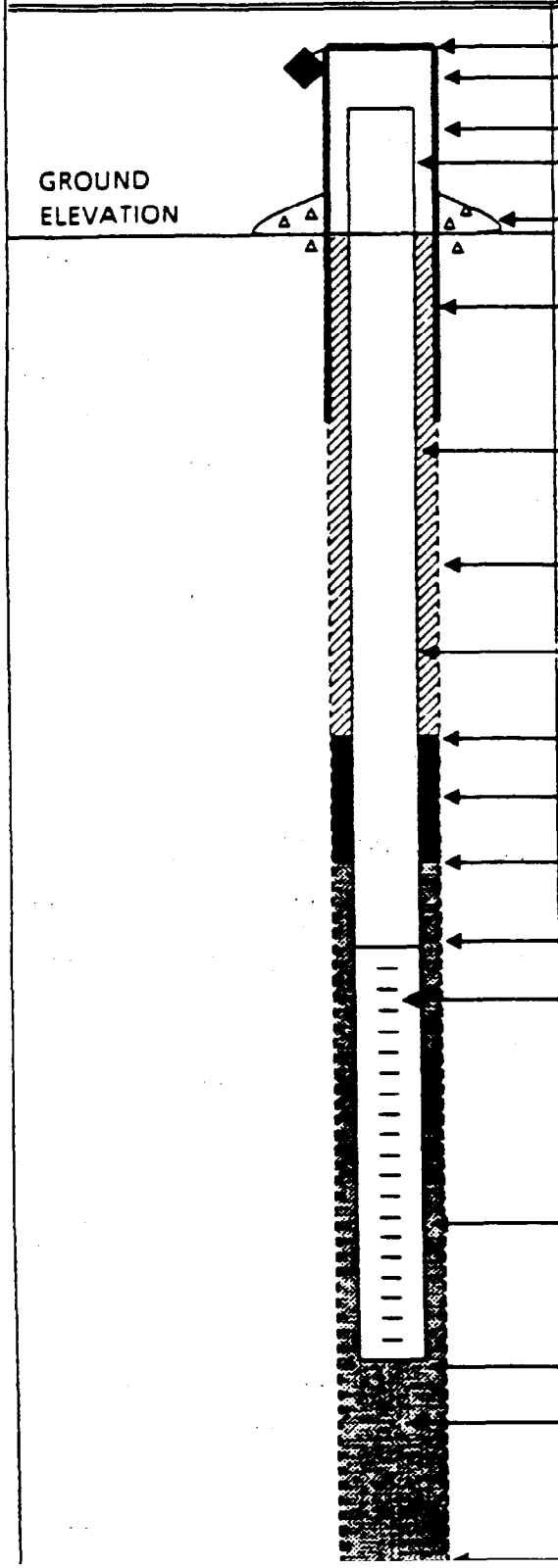
BORING NO HN29-S

OVERBURDEN
MONITORING WELL SHEET

PROJECT NWFRP BETHPAGE
PROJECT NO. 3281
ELEVATION
FIELD GEOLOGIST D YOST

LOCATION BETHPAGE N Y
BORING HN29-S
DATE 9-4-91

DRILLER JAY FLECK (UNITEC)
DRILLING METHOD HSA
DEVELOPMENT METHOD SUBMERSIBLE PUMP



ELEVATION OF TOP OF SURFACE CASING: N.A
ELEVATION OF TOP OF RISER PIPE: 119.64

STICK - UP TOP OF SURFACE CASING:
STICK - UP RISER PIPE :

TYPE OF SURFACE SEAL: CEMENT / GROUT

I.D. OF SURFACE CASING: 6 INCH
TYPE OF SURFACE CASING: STANDARD

RISER PIPE I.D. 4 INCH
TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 10 INCH

TYPE OF BACKFILL: CEMENT / BENTONITE GROUT

ELEVATION / DEPTH TOP OF SEAL: 35.5

TYPE OF SEAL: BENTONITE PELLET

DEPTH TOP OF SAND PACK: 37.0

ELEVATION / DEPTH TOP OF SCREEN: 39.0

TYPE OF SCREEN: PVC

SLOT SIZE x LENGTH: 0.01x10'

I.D. OF SCREEN: 4 INCH

TYPE OF SAND PACK: #1 GRAVEL

ELEVATION / DEPTH BOTTOM OF SCREEN: 49.0

ELEVATION / DEPTH BOTTOM OF SAND PACK: 49.3

TYPE OF BACKFILL BELOW OBSERVATION WELL: #1 GRAVEL

ELEVATION / DEPTH OF HOLE: 49.2

NUS CORPORATION

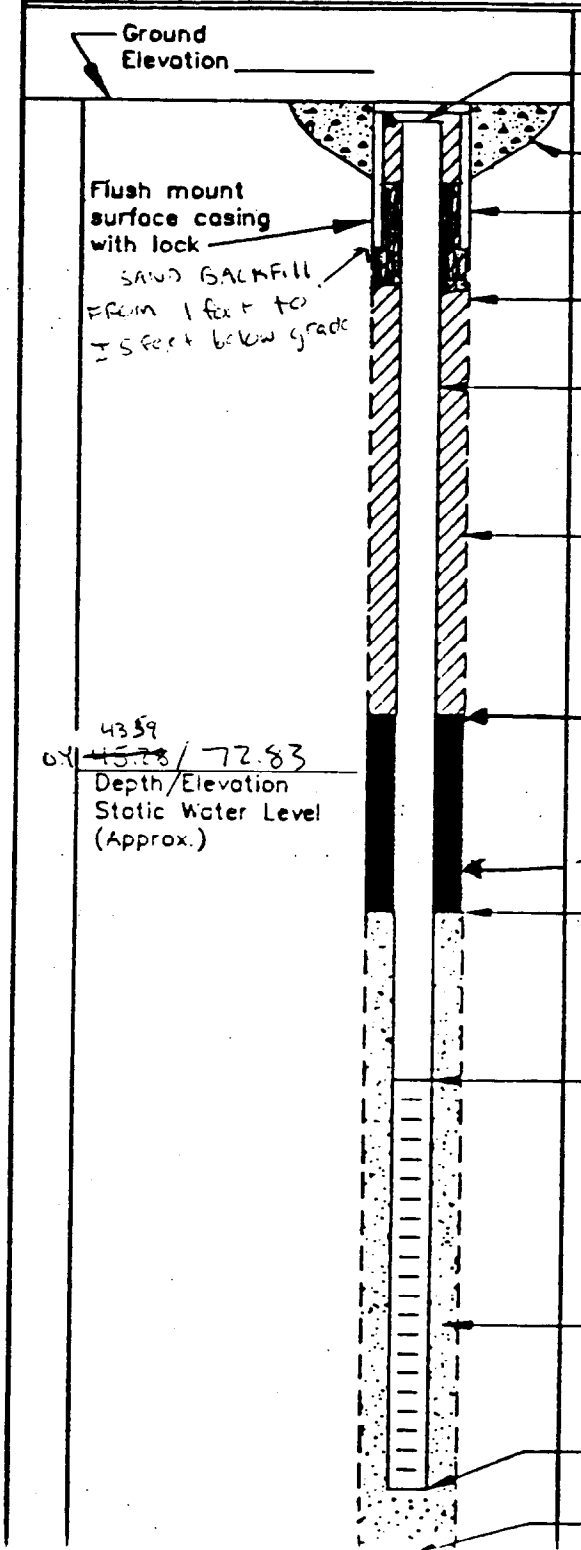
WELL NO.: HN 29 I

OVERBURDEN MONITORING WELL SHEET

PROJECT: NWIRP BETHPAGE
PROJECT NO.: 3281
ELEVATION:
FIELD GEOLOGIST: KEVIN KILMARTIN

LOCATION: BETHPAGE N.Y.
BORING: HN29 I
DATE: 11-26-91

DRILLER: MIKE P. (DELTA)
DRILLING METHOD: H.S.A.
DEVELOPMENT METHOD: AIRLIFT



ELEVATION TOP OF RISER: 116.42

TYPE OF SURFACE SEAL: CEMENT/GROUT

TYPE OF PROTECTIVE CASING: MANHOLE COVER

I.D. OF PROTECTIVE CASING: ~~18 inch~~ 9 INCH

BOREHOLE DIAMETER: 10"

TYPE OF RISER PIPE: PVC, Sched 40

RISER PIPE I.D.: 4"

TYPE OF BACKFILL/SEAL: Bentonite/cement grout

DEPTH/ELEV. TOP OF SEAL 112' / 4.42

TYPE OF SEAL Bentonite Slurry

Top of masonary stand 115' /

DEPTH/ELEVATION TOP OF SAND: 117 / -0.58

DEPTH/ELEVATION TOP OF SCREEN: 120 / -3.58

TYPE OF SCREEN: Sched 40 PVC

SLOT SIZE x LENGTH: .010 inch x 10 feet

TYPE OF SAND PACK: #1 Morie Sand

DEPTH/ELEVATION BOTTOM OF SCREEN: 130' / -13.58

DEPTH/ELEVATION BOTTOM OF SAND: 130'4" / -13.85

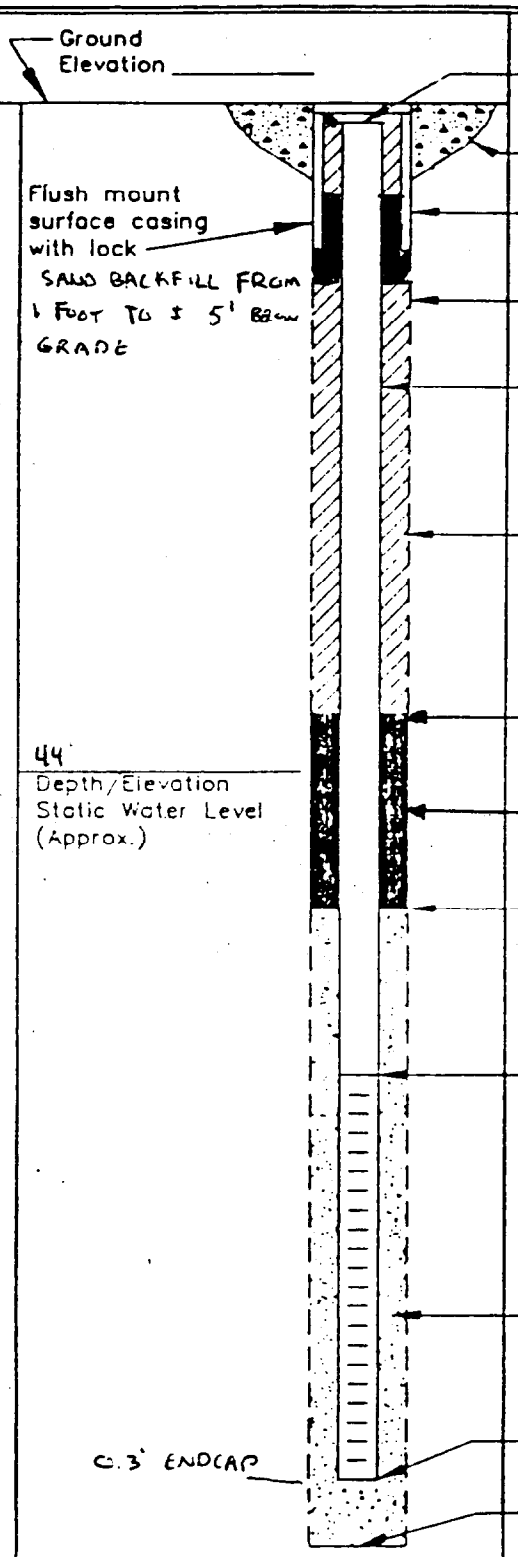
DEPTH/ELEVATION BOTTOM OF HOLE: 130'4" / -13.85

NUS CORPORATION

WELL NO.: HN 29-D

OVERBURDEN MONITORING WELL SHEET

PROJECT: NWIRP BETHPAGE	LOCATION: BETHPAGE N.Y.	DRILLER: MIKE P. (DELTA)
PROJECT NO.: 3281	BORING: HN29-D	DRILLING METHOD: MUD ROTARY / REVERSE AIR
ELEVATION:	DATE: 1-8-92	DEVELOPMENT METHOD: AIRLIFT
FIELD GEOLOGIST: D. YOST		



ELEVATION TOP OF RISER: _____

TYPE OF SURFACE SEAL: CEMENT

TYPE OF PROTECTIVE CASING: MANHOLE COVER

I.D. OF PROTECTIVE CASING: 9" MANHOLE

BOREHOLE DIAMETER: 8"

TYPE OF RISER PIPE: PVC

RISER PIPE I.D.: 4 INCH PVC

TYPE OF BACKFILL/SEAL: CEMENT / GROUT

DEPTH/ELEV. TOP OF SEAL: 200.9 /

TYPE OF SEAL: BENTONITE SLURRY

MASONARY SAND SEAL: 203.9 /

DEPTH/ELEVATION TOP OF SAND: 207.3 /

DEPTH/ELEVATION TOP OF SCREEN: 210 /

TYPE OF SCREEN: 4 INCH PVC

SLOT SIZE x LENGTH: 0.01 x 10'

TYPE OF SAND PACK: #1 MORIE SAND

DEPTH/ELEVATION BOTTOM OF SCREEN: 220 /

DEPTH/ELEVATION BOTTOM OF SAND: 220.3 /

DEPTH/ELEVATION BOTTOM OF HOLE: 220.3 /

BACKFILL MATERIAL BELOW SAND: #1 MORIE SAND

NUS CORPORATION
A Halliburton Company

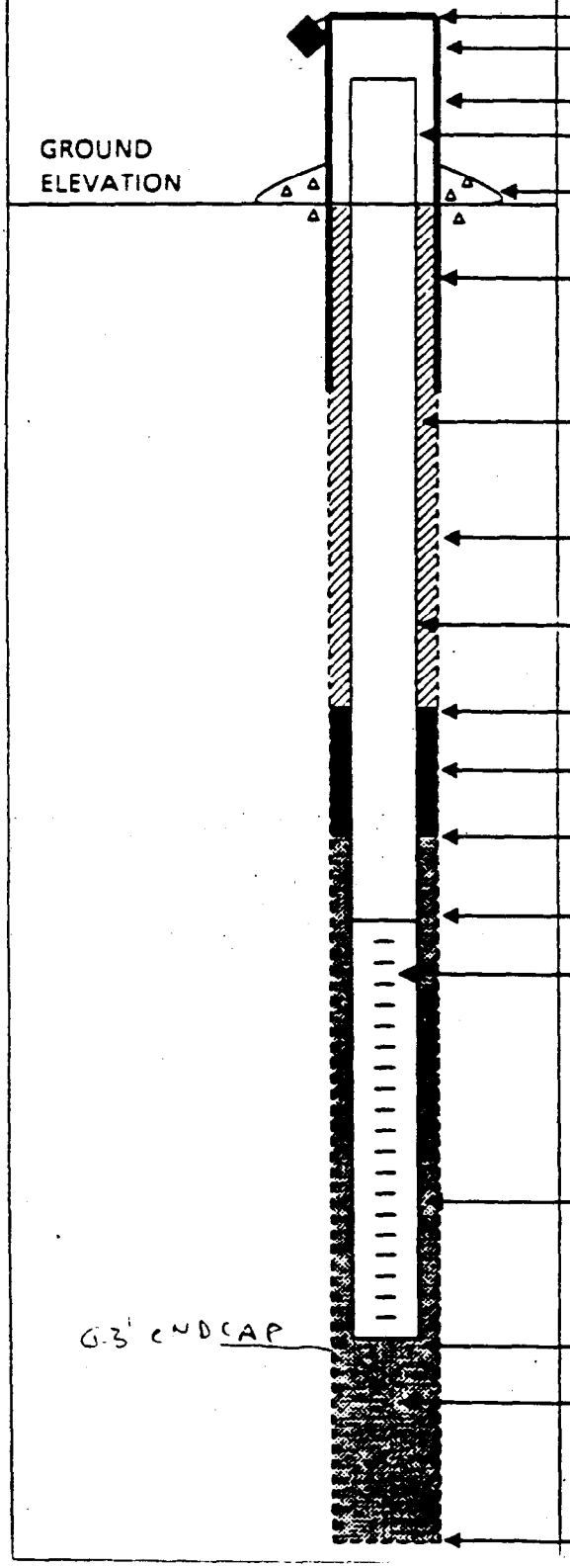
BORING NO. HN30-S

OVERBURDEN MONITORING WELL SHEET

PROJECT NWIRP BETHPAGE
PROJECT NO. 3281
ELEVATION
FIELD GEOLOGIST D YOST

LOCATION BETHPAGE N.Y.
BORING HN30-S
DATE 9-5-91

DRILLER J. FLECK (HN JEC)
DRILLING METHOD H.S.A.
DEVELOPMENT METHOD SUBMERSIBLE PUMP



ELEVATION OF TOP OF SURFACE CASING: NA
ELEVATION OF TOP OF RISER PIPE: 129.10

STICK - UP TOP OF SURFACE CASING:
STICK - UP RISER PIPE :

TYPE OF SURFACE SEAL: CEMENT/GROUT

I.D. OF SURFACE CASING: 6 INCH
TYPE OF SURFACE CASING: STAND PIPE

RISER PIPE I.D. 4 INCH
TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 10 INCH

TYPE OF BACKFILL: CEMENT/BENTONITE GROUT

ELEVATION / DEPTH TOP OF SEAL: 43.0

TYPE OF SEAL: BENTONITE PELLET

DEPTH TOP OF SAND PACK: 45.0

ELEVATION / DEPTH TOP OF SCREEN: 47.0

TYPE OF SCREEN: PVC

SLOT SIZE x LENGTH: 0.010 x 10'

I.D. OF SCREEN: 4 INCH

TYPE OF SAND PACK: #1 GRAVEL

ELEVATION / DEPTH BOTTOM OF SCREEN: 57.0

ELEVATION / DEPTH BOTTOM OF SAND PACK: 57.3

TYPE OF BACKFILL BELOW OBSERVATION WELL: #1 GRAVEL

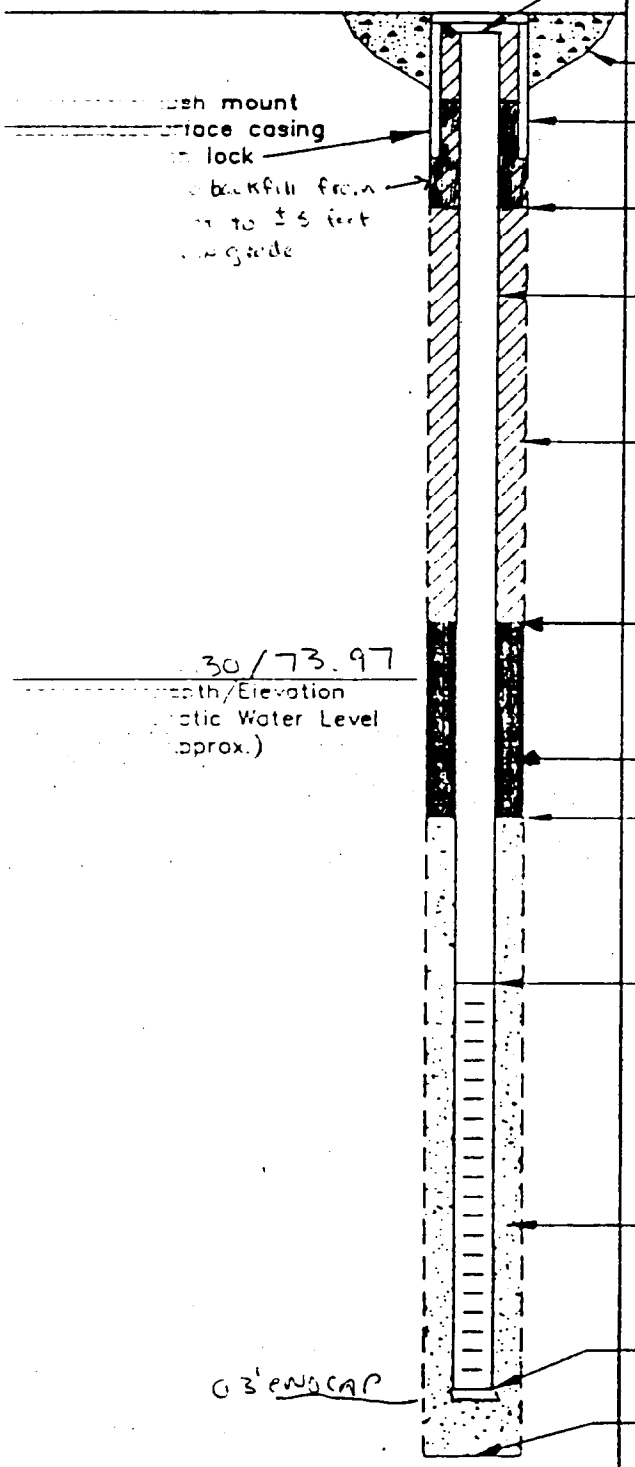
ELEVATION / DEPTH OF HOLE: 57.3

NUS CORPORATION

WELL NO.: HN 30-I

OVERBURDEN MONITORING WELL SHEET

...CT: NWIRP BETHPAGE	LOCATION: BETHPAGE LONG ISLAND NY	DRILLER: MIKE P. (DELTA)
...CT NO.: 3281	BORING: HN 30-I	DRILLING METHOD: HSA
...ATION:	DATE: 10-21-91	DEVELOPMENT METHOD: AIR LIFT
... GEOLOGIST: D. Yost		



ELEVATION TOP OF RISER: 126.27

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING: 9...

I.D. OF PROTECTIVE CASING: ...

BOREHOLE DIAMETER: 10"

TYPE OF RISER PIPE: 4 INCH PVC

RISER PIPE I.D.: PVC - 4 INCH

TYPE OF BACKFILL/SEAL: CEMENT / GROUT

BENTONITE SLURRY SEAL 101' / 25.27

MASONARY SAND SEAL 104' / 22.27

DEPTH/ELEVATION TOP OF SAND: 106.5' / 19.77

DEPTH/ELEVATION TOP OF SCREEN: 110' / 16.27

TYPE OF SCREEN: 4' PVC

SLOT SIZE x LENGTH: 0.10 x 10'

TYPE OF SAND PACK: #1 SILICA SAND

DEPTH/ELEVATION BOTTOM OF SCREEN: 120' / 6.27

DEPTH/ELEVATION BOTTOM OF SAND: 120' / 6.27

DEPTH/ELEVATION BOTTOM OF HOLE: 155' / 28.73

BACKFILL MATERIAL BELOW SAND: NATURAL COLLAPSE

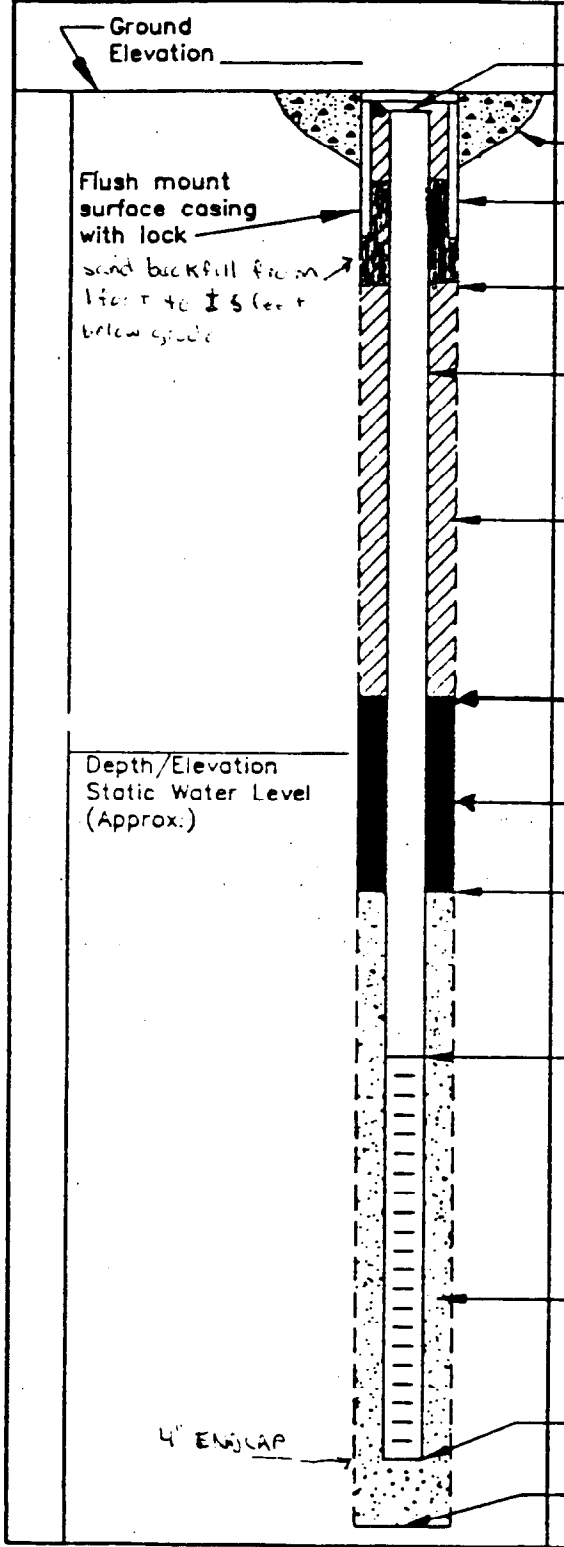
NUS CORPORATION

WELL NO.: HN08 D

OVERBURDEN MONITORING WELL SHEET

PROJECT: NWIRP BETHPAGE
LOCATION: BETHPAGE N Y
PROJECT NO.: 3281
BORING: HN08-D
ELEVATION:
DATE: 12-19-91
FIELD GEOLOGIST: DAVE YOST / KEVIN KILMARTIN

DRILLER: MIKE P (DELTA)
DRILLING METHOD: MUD ROTARY / REVERSE WATER CIRCULATION
DEVELOPMENT METHOD: AIR LIFT



ELEVATION TOP OF RISER:
TYPE OF SURFACE SEAL: CEMENT
TYPE OF PROTECTIVE CASING: MANHOLE COVER
I.D. OF PROTECTIVE CASING: 9 INCH
BOREHOLE DIAMETER: 8"
TYPE OF RISER PIPE: PVC
RISER PIPE I.D.: 4 INCH
TYPE OF BACKFILL/SEAL: CEMENT / GROUT
DEPTH/ELEV. TOP OF SEAL 178'
TYPE OF SEAL BENTONITE SLURRY
MASONRY SAND SEAL 181'
DEPTH/ELEVATION TOP OF SAND: 184'
DEPTH/ELEVATION TOP OF SCREEN: 188'
TYPE OF SCREEN: PVC - 4 INCH
SLOT SIZE x LENGTH: 0.01 x 10'
TYPE OF SAND PACK: #1 MORIE INDUSTRIAL
DEPTH/ELEVATION BOTTOM OF SCREEN: 198
DEPTH/ELEVATION BOTTOM OF SAND: 198
DEPTH/ELEVATION BOTTOM OF HOLE: 198'4"
BACKFILL MATERIAL BELOW SAND: #1 MORIE SAND

ACFILE: L870\GEOL\OBURD1.DWG

APPENDIX E

WELL DEVELOPMENT LOG SHEETS

NUS CORPORATION AND SUBSIDIARIES — **STANDARD CALCULATION SHEET**

CLIENT: NWIRP BETHPAGE	~~NUS NO.~~: WELL NO: HN 8	BY: K. Kilmartin	PAGE OF
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE: 1-15-92

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (MMHO)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
1200	Pump On					25	Initially yellow, quickly to clear
1328	AIR LIFT	4.40	13.0	7.57	220	25	Clear
1405	"	3.80	13.5	5.90	110	"	"
1420	"	3.24	9.5	5.88	110	"	Temperature gauge is
							fluctuating, questionable.
							Reading of ~11° on hand thermometer.
	According to driller, well is surging at rate of > 30 gpm, water very clear, most likely developing						
	entire screen.						
1430	Pump off	TOTAL AMOUNT pumped was				6700 gallons.	

NUS 155A REVISED 0285

NUS CORPORATION AND SUBSIDIARIES — **STANDARD CALCULATION SHEET**

CLIENT: NWIRP Bethpage	~~FILE NO.~~: WELL NO: HW24S	BY: [signature]	PAGE OF
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE: 9-10-91

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (MMHO)	±YIELD (gpm)	APPEARANCE, COLOR, ETC.
0740	Submersible	Pump on				±1 gpm	Pre-pump static = 50'1" below ground surface
0810	"	36.6	16.4	6.77			Colorless v. slightly cloudy
0830	"	12.6	16.4	6.91			Clear
0833	Pump off	Surged well					
0835	Pump on					±1.5gpm	light brown opaque
0850	"	>200	16.6	7.15			very light brown opaque
0910	"	14.1	16.6	6.02			clear
0930	"	17.2	18.3	5.90			clear
0934	Pump off						Post-pump static = 50'1" b. ground.

NUS 155A REVISED 0285

NUS CORPORATION AND SUBSIDIARIES — **STANDARD CALCULATION SHEET**

CLIENT: NWIRP BETHPAGE	[redacted]: WELL NO: 11N24I	BY: D. BRAYACK	PAGE 1 OF 1
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE: 11-25-91

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (µMHO)	±YIELD (GPM)	APPEARANCE, COLOR, ETC.
1110	AIRLIFT	105	14.7	8.75	360	5	
1210	"	22	15.3	6.9	250	"	
1240	"	25	15.1	6.6	255	"	
1305	"	24	15.7	6.6	255	"	
1345	"	10.4	14.8	6.8	245	"	
1350							MOV AIR TO MIDDLE OF SCREEN 800 GALLONS PUMPED
1400	"	8.9	14.9	6.8	245	"	
1430	"	6.9	14.7	6.5	240	"	
1510	"	4.4	14.0	7.3	230	"	1050 GALLONS PUMPED
1512							MOVED AIR TO TOP OF SCREEN
1530	"	3.7	14.1	7.0	225	"	
1553	"	2.7	14.1	7.3	220	"	1200 GALLONS PUMPED
1555							END PUMPING TANKER

NUS 1554 REVISED 0285

NUS CORPORATION AND SUBSIDIARIES — **STANDARD CALCULATION SHEET**

CLIENT: NWIRP BETHPAGE	~~FILE NO.~~: WELL NO: HW25S	BY: [illegible]	PAGE OF
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE: 9-10-91

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (MMHO)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
1610	Submersible pump on					±1.5	dark brown
1630	"	>200	19.7	5.70		"	light Tannish-brown, OPAQUE
1650	"	>200	19.7	5.31		"	"
1701	Pump off	(wire came	loose)				
1703	Pump ON						
1710	"	>200	19.6	5.11		"	light Tannish-brown, OPAQUE
1730	"	53.4	19.5	5.03		"	Clear
1750	"	116.6	19.5	5.03		"	Colorless, cloudy
1810	"	123.9	19.5	4.95		"	Colorless, cloudy
1830	"	120.9	19.1	4.96		"	Colorless, cloudy
1850	"	120.7	19.0	4.97		"	Colorless cloudy
1910	"	113.2	19.0	4.95		"	colorless cloudy
1920	Pump OFF						
9-11-91 07:35	Surge well pump on						water cloudy, cleared in ≈ 10 minutes
07:55	Pump off Surge well pump on					±1.5	brown, opaque
0820	"	22.9	17.7	5.95		"	Clear
0840	"	21.9	17.7	4.87			clear

NUS 155A REVISED 0285

NUS CORPORATION AND SUBSIDIARIES — STANDARD CALCULATION SHEET

CLIENT: NWIRP BETHPAGE	~~FILE NO.~~: WELL NO: HN25S	BY: Kilmartin	PAGE 2 OF
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE:

TIME	METHOD	TURBIDITY (NTU)	T°	pH	CONDUCT. (µMHO)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
0900	Submersible pump	28.4	182	4.77		±1.5	clear
0902	Pump off						
0910							Static water = 52' 4" below ground surface

NUS 155A REVISED 0285

NUS CORPORATION AND SUBSIDIARIES — **STANDARD CALCULATION SHEET**

CLIENT: NWIRP BETHPAGE	~~PROJ NO.~~: WELL NO: HN25-F	BY: D. BRAYACK	PAGE 1 OF 2
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE: 11-26-91

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (µMHO)	YIELD (GALLONS PUMPED) (GPM)	APPEARANCE, COLOR, ETC.
0915	AIR LIFT	7200	14.7	7.2	125	460	
0945	"	>200	16.1	5.9	120		
1000	"					800	
1015	"	39	16.6	6.0	120		
1045	"	34	17.0	5.9	120		
1115	"	31	16.7	6.1	115	1380	
1140	"	~~54~~ D.Y	~~15.6~~ D.Y	D.Y	~~115~~ D.Y	1620	
1150	"	54	15.6	6.1	115	1840	INCREASE THEN DECREASE RATE
1205	"					2070	
1215	"	17	17.3	6.4	100	2230	
1250	"	13	17.3	6.4	105	2430	
1315	"	16	17.1	6.3	105	2660	
1330	"					2890	MOVE G.R TO MIDDLE OF SCREEN
1350	"	74	17.1	6.1	95	3120	
1410	"	74	17.1	6.6	100	3350	
1420	"						SURGE AT HIGHER FLOW
1435	"	7200	16.6	6.5	100	3580	

NUS 155A REVISED 0285

NUS CORPORATION AND SUBSIDIARIES — **STANDARD CALCULATION SHEET**

CLIENT:	[redacted]:	BY:	PAGE 2 OF 2
NWIRP BETHPAGE	WELL NO: 1HN25I	D. BRAYACK K. K. MARTIN	
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE: 11-26,27,-91

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (µMHO)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
1450	AIRLIFT	80	~~16.6~~ 17.3	6.4	100	3810	
1505	"	24	16.5	6.2	105	4046	
1520	"	23	16.9	6.4	105	4770	
1545	"	150	16.5	6.4	105	4560	DROPPED TO BOTTOM 1mm THEN TOP OF SCREEN
1600	"	150	16.2	6.5	105	4650	
1615	"					4730	
1620	"						SURGE
1630	"		14.4	6.3	95	4960	
-27-91 0910	"	82.4	16.7	7.52	180	1500	
1000	"	67.4	16.0	5.92	100	2300	SL CLOUDY VIS. BLE SUSPENDED SILT
1050	"	35.8	16.1	5.73	100	2700	CLEAN V. SIBLE SUSPENDED SILT
1112	"	28.5	16.3	5.72	100		CLEAR
1145	"	21.1	17.0	5.43	100		CLEAR TR SUSPENDED SILT
1200	"	11.4	16.5	6.21	100	3910	

NUS 155A REVISED 0285

NUS CORPORATION AND SUBSIDIARIES — **STANDARD CALCULATION SHEET**

CLIENT: NWIRP BethPage	~~FILE NO.~~: WELL NO: HN25-D	BY: D. Yost	PAGE 1 OF 1
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE: 1-28-92

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (MMHO)	±YIELD (gpm)	APPEARANCE, COLOR, ETC.
0912	AIRLIFT	>200	12.3	8.20	200	40	BROWN
0917	"	>200	14.2	6.68	100	"	"
0927	"	>200	14.2	6.37	100	"	"
0937	"	148.6	14.7	6.34	100	"	LT BROWN
0945	"	107.6	14.7	6.36	~~85~~ 90	"	
1020	"	92.8	14.7	6.42	85	"	CLOUDY
1044	"	58.1	14.7	6.27	85	"	CLOUDY
1104	"	49.4	14.7	6.29	90	"	CLEAR
1115	"	48.9	14.8	6.29	90	"	"
1127	"	45.0	14.8	6.33	90	"	"
1141	"	39.0	14.8	6.47	90	"	"
1150	"	36.5	14.8	6.49	90	"	"
							~ 7000 GALLONS PUMPED

NUS 155A REVISED 0285

NUS CORPORATION AND SUBSIDIARIES — STANDARD CALCULATION SHEET

CLIENT: NWIRP BETHPAGE	~~FILE NO~~: WELL NO: HW26S	BY: Kilmartin	PAGE 1 OF 1
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE: 9-7-91

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (µMHO)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
0955	STATIC	level at	46'	6"	below	ground	surface
0959	Submersible Pump on					±1.5gpm	Turbid, brown
1020	"	>200	11.4	11.32		"	light brown
1040	"	>200	12.4	10.79		"	colorless CLOUDY
1100	"	>200	11.6	10.51		"	Colorless CLOUDY
1120	"	101.6	13.2	9.84		"	Colorless, less cloudy
1140	"	42.7	9.6	9.46		"	Colorless, slightly cloudy
1200	"	21.6	11.2	9.18		"	clear
1205	PUMP OFF	Surge	well			KCK	~~light brown, opaque~~
1210	Submersible Pump on					"	light brown, opaque
1230	"	>200	10.0	9.33		"	Colorless, very cloudy
1250	"	76.1	10.6	7.72		"	Colorless, cloudy
1310	"	28.8	10.9	6.44		"	Colorless, slightly cloudy
1330	"	77.2	12.3	6.45		"	clear
1350	"	24.5	12.9	6.32			clear
1353	Pump off	Static	level	at	46'6"	below ground	surface

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NUS CORPORATION AND SUBSIDIARIES — **STANDARD CALCULATION SHEET**

CLIENT: NWIRP BethPage	~~FILE NO.~~: WELL NO: HN26-I	BY: D. YOST	PAGE 1 OF 1
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE:

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (MMHO)	tYIELD (gPM)	APPEARANCE, COLOR, ETC.
1114	AIRLIFT	>200	18.2	8.56	440	~10	TAN
1155	"	178.7	19.2	8.07	180	~10	CLOUDY
1230	"	77.0	19.7	8.20	175	~10	SLIGHTLY CLOUDY
1302	"	66.8	19.5	8.20	175	~10	SL. CLOUDY
1325	"	57.2	NA	NA	175	"	SL. CLOUDY CLEAR
1354	"	48.5 (18.0)*	19.5	NA	175	"	CLEAR
1416	"	21.9	19.1	NA	175	"	"
1442	"	17.6	16.1	6.46	170	"	"
1515	"	NA	10.1*	6.57	170	"	"
1610	"	NA	12.9	6.81	160	"	"
1656	"	NA	10.9	6.88	160	"	"

RA... ... 4'

NEW TEMP/PH MAKE

PH ... TOP OF ...

NUS 155A REVISED 0285

* Questionable

NUS CORPORATION AND SUBSIDIARIES — STANDARD CALCULATION SHEET

CLIENT: NWIRP BETHPAGE	~~NUS NO.~~: WELL NO: HN-27B	BY: [illegible]	PAGE OF
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE: 9-6-91

TIME	METHOD	TURBIDITY (NTU)	T°	pH	CONDUCT. (µMHO)	YIELD (gpm)	APPEARANCE, COLOR, ETC.
Submersible		Pump	on	at	(1510) 3:10 pm	1.67 gpm	Light Brown opaque
1530	Submersible pump	>200	8.1	5.93		"	Light Brown
1550	"	138.5	8.4	5.60		"	Colorless but cloudy
1610	"	21.5	8.9	5.46		"	Colorless, very slightly cloudy
Surge	well	@ 1620				1.25 gpm	Light Brown, opaque
1630	"	>200	9.8	5.25		"	"
1650	"	127.8	11.6	5.26		"	colorless but cloudy
1710	"	12.5	12.1	5.32		"	clear
1730	"	8.58	13.0	5.37		"	clear
1750	"	9.81	12.4	5.32		"	clear
1810	"	6.16	12.1	5.13		"	clear
1820	Pump	OFF					

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NUS CORPORATION AND SUBSIDIARIES — **STANDARD CALCULATION SHEET**

CLIENT: NWIRP Bethpage	~~FILE NO.~~: WELL NO: HN27-I	BY: D. YOST	PAGE 1 OF 1
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE: 11-14-91

	TIME	METHOD	TURBIDITY (NTU)	T°	pH	CONDUCT. (MMHO)	±YIELD (gpm)	APPEARANCE, COLOR, ETC.
1-14-91	1011	AIRLIFT	63.9	15.6	9.77	160	2	SLIGHTLY CLOUDY
	1022	"	> 200	16.0	7.55	115	"	BROWN
	1105	"	24.7	17.0	6.10	105	"	CLEAR
	1144	"	16.5	17.5	5.93	105	"	"
	1300	"	14.2	18.0	6.20	100	5	"
	1400	"	13.9	18.0	5.94	100	"	"
[illegible]	1421	"	21	17.5	5.93	95	"	"
	1600	"	16.4	17.0	6.05	80	"	"
[illegible]	1625	"	21.5	17.5	6.02	90	"	"
[illegible]	1700	"	14.8	17.5	6.10	90	"	"

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TEMPERATURE MEASURED WITH REGULAR THERMOMETER

NUS CORPORATION AND SUBSIDIARIES — **STANDARD CALCULATION SHEET**

CLIENT: NWIRP BETHPAGE	PROJECT: WELL NO: HN28S	BY: FRED W RAMSER	PAGE OF
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE: 9-5-91

TIME	METHOD	TURBIDITY (NTU)	T° °C	pH	CONDUCT. (µMHO)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
1650		>200	14.9	7.36	N/A	1.43	LIGHT BROWN
1700		>200	13.5	7.15	N/A	"	"
1720		108.2	14.7	7.17	N/A	"	"
1740		48.3	13.1	7.19	N/A	"	CLEAR
1800		28.8	11.5°	7.45	N/A	"	CLEAR
1807	— WELL PURGED —						
1810		>200	11.7	7.35	N/A	"	LIGHT BROWN
1830		>200	10.9	8.06	N/A	"	LIGHT BROWN
1850		106.0	13.6°	7.8	N/A	"	SLIGHTLY CLOUDY
1910		48.7	13.6°	8.5	N/A	"	CLEAR

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NUS CORPORATION AND SUBSIDIARIES — **STANDARD CALCULATION SHEET**

CLIENT: NWIRF BETHPAGE	~~FILE NO.~~: WELL NO: HN285	BY: FRED W. RAMSER	PAGE OF
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE: 9-6-91

TIME	METHOD	TURBIDITY (NTU)	T°	pH	CONDUCT. (µMHO)	YIELD (gpm)	APPEARANCE, COLOR, ETC.
0745		>200	8.1	6.77	N/A	1.2	LIGHT BROWN
0809		>200	9.2	9.67	N/A	"	"
0830		94.2	9.3	9.68	N/A	"	SLIGHTLY CLOUDY
0855		34.0	10.1	6.66			
0910		SURGED WELL					
0930		>200	10.2	6.33	N/A	"	
0950		131.3	11.2	7.09	N/A	"	
1010		>200	11.8	6.80	N/A	"	
1015		73.0	11.3	6.34	N/A	"	
1025		132	10.2	6.34	N/A		
1035		87	10.8	6.38			
1045		80	10.0	6.38			
~~1055~~							

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NUS CORPORATION AND SUBSIDIARIES — **STANDARD CALCULATION SHEET**

CLIENT: NWIRP BETHPAGE	~~FILE NO~~: WELL NO: HN285	BY: Kilmartin	PAGE OF
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE: 9-6-91

TIME	METHOD	TURBIDITY (NTU)	T°	pH	CONDUCT. (µMHO)	YIELD (gpm)	APPEARANCE, COLOR, ETC.
1840	Submers. bk					± 1	Pump on
1850	"	>200	7.5	6.21			light brown
1910	"		6.5	6.07			Colorless but cloudy
1920	Pump	OFF					
0815	9/7/91	Pump on					
0845	Submersible pump	74.2	8.6	7.01			Colorless, slightly cloudy
0900	"	33.3	8.9	6.81			Clear
0905	Pump off						

NUS 155A REVISED 0285

NUS CORPORATION AND SUBSIDIARIES — **STANDARD CALCULATION SHEET**

CLIENT: NWIRP BETHPAGE	[redacted]: WELL NO: MW28-J	BY: D. YOST	PAGE 1 OF 1
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE: 11-15-91

	TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (MMHO)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
11-15	0935	AIRLIFT	>200	18.6	8.46	205	3	BROWN
11-16	1255	"	"	17.0	7.92	165	5	BROWN
	1315	"	193.5	18.1	6.42	140	"	CLOUDY
	1321	"	57.4	17.3	5.92	135	"	SL CLOUDY
	1356	"	25.5	17.8	5.39	130	"	CLEAR
	1432	"	17.7	17.0	5.39	135	"	"
	1458	"	15.1	17.2	5.68	130	"	"

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NUS CORPORATION AND SUBSIDIARIES — STANDARD CALCULATION SHEET

CLIENT: NWIRP BETHPAGE	FILE NO.: WELL NO: HN29S	BY:	PAGE 1 OF
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE: 9-6-91

TIME	METHOD	TURBIDITY (NTU)	T °C	pH	CONDUCT. (µMHO)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
1210	SUBMERSIBLE PUMP	>200	11.3	9.45	NA	1	TAN BROWN
1235	"	>200	11.5	9.43	N/A	1	TAN-BROWN
1245	"	>200	8.4	9.36	N/A	1	"
1255	"	>200	9.3	9.36	N/A	1	"
1400		>200	8.6	9.5	N/A	2	
1415		>200	7.8	9.4	N/A	"	
1430		>200	9.5	9.36	N/A	2	
STOPPED		DEVELOPMENT		@	1434		

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NUS CORPORATION AND SUBSIDIARIES — STANDARD CALCULATION SHEET

CLIENT: NWIRP BETHPAGE	PROJ NO.: WELL NO: HN29S	BY: [illegible]	PAGE 1 OF 1
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE: 9-10-91

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (µMHO)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
1050							Pre-Pump Static 43'9" below TOP of Surface casing
1059	Submersible pump on						brown, opaque
1130	"	>200	20.9	9.42		±1.5	brown, opaque
1150	"	>200	20.0	9.38		"	"
1240	"	>200	19.9	9.38		"	"
1300	"	>200	19.9	9.39		"	" Light "greenish" Tint
1320	"	>200	19.8	9.40		"	" Light "greenish" Tint
1420	"	>200	18.9	9.38		"	" Slightly lighter in color
1500	"	>200	18.7	9.39			light brown opaque
1506	Pump off	"					
1.1.91 1102	SUBMERSIBLE PUMP	"	17.3	9.63	980	15	BROWN
1110	"	"	17.2	9.54	920	"	"
1118	"	"	17.2	9.41	920	"	LT BROWN
1132	"	"	17.4	9.35	910	"	-
1144	"	"	17.4	9.40	895	"	"
1226	"	"	17.5	9.58	905	"	"
1248	"	"	17.4	9.62	895	"	"
			17.5	9.62	880	"	

NUS 155A REVISED 0285
1404

NUS CORPORATION AND SUBSIDIARIES — **STANDARD CALCULATION SHEET**

CLIENT: NWIRP BETHPAGE	PROJ NO.: WELL NO: HW29I	BY: L. YOST	PAGE 1 OF 1
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE: 12-2-91

	TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (µMHO)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
PUMPED DRY ALREADY	1108	AIR LIFT	83.3	15.5	7.59	105	2	CLOUDY
	1138	"	21.6	16.2	5.72	100	"	SL. CLOUDY / CLEAR
	1215	"	12.5	15.9	5.40	100	"	CLEAR
	1312	"	10.6	15.5	5.20	95	"	"
A.R HOSE AT MIDDLE OF SCREEN	1320	"	8.7	14.4	5.37	95	"	"
	1417	"	8.9	15.2	5.29	105	"	"
	1445	"	7.2	15.5	5.32	105	"	"
A.R HOSE AT TOP OF SCREEN	1454	"	9.41	15.0	5.48	105	"	"
	1550	"	9.0	14.0	5.40	105	"	"
	1630	"	5.4	14.8	5.42	105	"	"
1-17-92								

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NUS CORPORATION AND SUBSIDIARIES — **STANDARD CALCULATION SHEET**

CLIENT: NWIRP BETHPAGE	~~NUS NO.~~: WELL NO.: HN29-D	BY: K. KILMARTIN	PAGE 1 OF 1
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE: 1-17-92

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (MMHO)	±YIELD (GPM)	APPEARANCE, COLOR, ETC.
1140	AIR LIFT	5.6	11.7	5.88	160	50	CLEAR
1200	"	4.6	12.8	5.67	130	"	CLEAR
							7000 GALLONS pumped

NUS 155A REVISED 0785

NUS CORPORATION AND SUBSIDIARIES — **STANDARD CALCULATION SHEET**

CLIENT: NWIRP Bethpage	~~FILE NO.~~: WELL NO: HN30S	BY: K. Martin	PAGE 1 OF
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE: 9-9-91

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (MMHO)	±YIELD (gpm)	APPEARANCE, COLOR, ETC.
1400	STATIC	52'0" from top of PVC casing					
1400	Submersible pump on					±1.0	
1425	Pump off	: No water pumped					Driller suspects pump is disabled
1455	Submersible pump on						New pump
1510	"	>200	23.6	10.06		"	light brown opaque
1530	"	>200	23.8	9.59		"	Colorless, very cloudy
1550	"	71.0	22.9	9.22		"	Colorless cloudy
1556	Pump off						out of gas
1559	Pump on						
1610	"	>200	23.8	9.26		"	light brown opaque
1630	"	112.8	22.8	8.84		"	Colorless cloudy
1650	"	29.7	22.5	8.61		"	Colorless very slightly cloudy
1710	"	17.7	22.3	8.40		"	Clear
1715	Pump off	well surged	⇒	17:17	Pump on		
1730		>200	20.9	8.94			very light brown opaque
1750		63.6	20.7	8.21			Colorless cloudy
1810		40.4	20.7	7.69			Colorless v. slightly cloudy

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NUS CORPORATION AND SUBSIDIARIES — STANDARD CALCULATION SHEET

CLIENT: NWIRP BETHPAGE	FILE NO.: WELL NO: HN 30 S	BY:	PAGE 2 OF
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE: 9-9-91

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (µMHO)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
1830	Submers. pump	33.9	20.3	7.40			clear
1840	"	32.7	20.3	7.58			clear
1843	Pump	OFF					
1850	STATIC	water	51'	11"	from TOP	of	Casing.

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NUS CORPORATION AND SUBSIDIARIES — **STANDARD CALCULATION SHEET**

CLIENT: NWIRP Bethpage	~~FILE NO.~~: WELL NO: HN30-I	BY: D. Yost / K. Kilmartin	PAGE 1 OF 1
SUBJECT: Monitoring Well Development Log		CHECKED BY:	DATE:

	TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (MMHO)	±YIELD (gpm)	APPEARANCE, COLOR, ETC.
1-8-91	0922	AIRLIFT	>700	13.8	9.4	250	8.16	BROWN
	0937	"	"	14.1	8.73	190	"	LT BROWN
	0952	"	"	15.1	8.36	170	"	"
	1029	"	"	14.9	9.16	165	"	CLOUDY
	1106	"	158.8	15.4	9.35	160	"	"
	1147	"	103.6	15.2	7.80	155	"	"
	1254	"	68.3	14.6	7.22	145	"	SL. CLOUDY
	1329	"	51.6	13.8	9.0*	140	"	"
	1351	"	44.9	14.6	8.02*	140	"	"
	1432		39.2	14.8	8.09	140	"	CLEAR
[illegible]	1456	"	34.6	14.8	8.10	140	"	CLEAR
	1530	"	32.2	14.6	9.88*	140	"	clear
	1600	"	27.9	14.2	8.70*	140	"	clear
[illegible]	1620	"	26.8	13.9	9.49*	140	"	Clear
	1640	"	25.8	14.3	9.87*	140	"	Clear
	Pump off at 1642							

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* ACCURATE READING?

APPENDIX F

SURVEYING INFORMATION

Field equipment used in surveying the wells consisted of a Geodimeter 440 LR with an attached electronic data collector. This instrument is capable of exceeding the required 1 in 10,000 error of closure. Various types of reflective prisms were used in conjunction with this instrument.

Office equipment used for calculations consisted of an IBM compatible computer. Various types of software for calculating state plain coordinates and traverse points were also used.

Control points and well coordinates copied from the surveying notebook are provided in the following pages.

CONTROL POINTS AND WELL COORDINATES

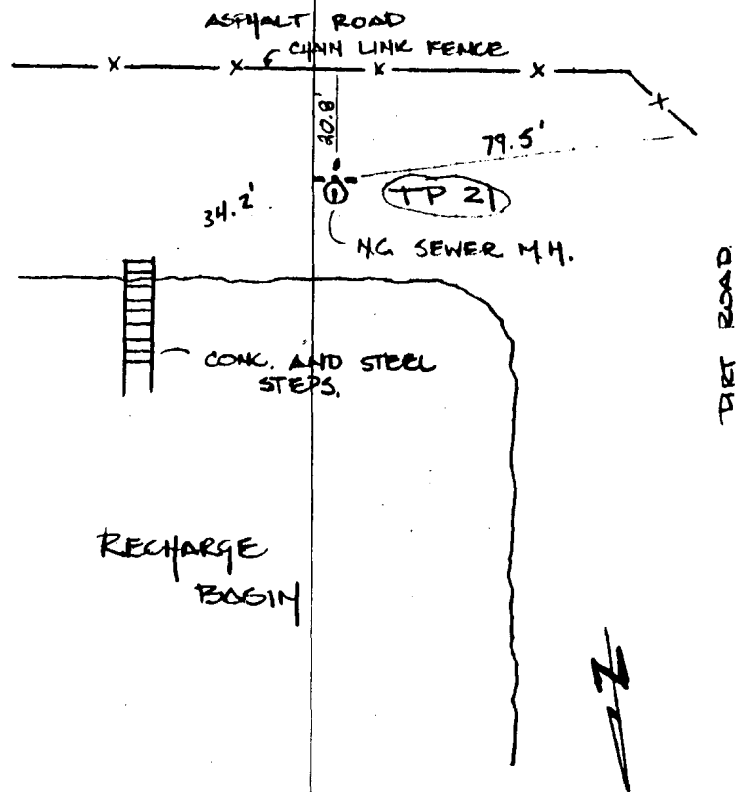
GRUMMAN — TRAVERSE LOCATIONS

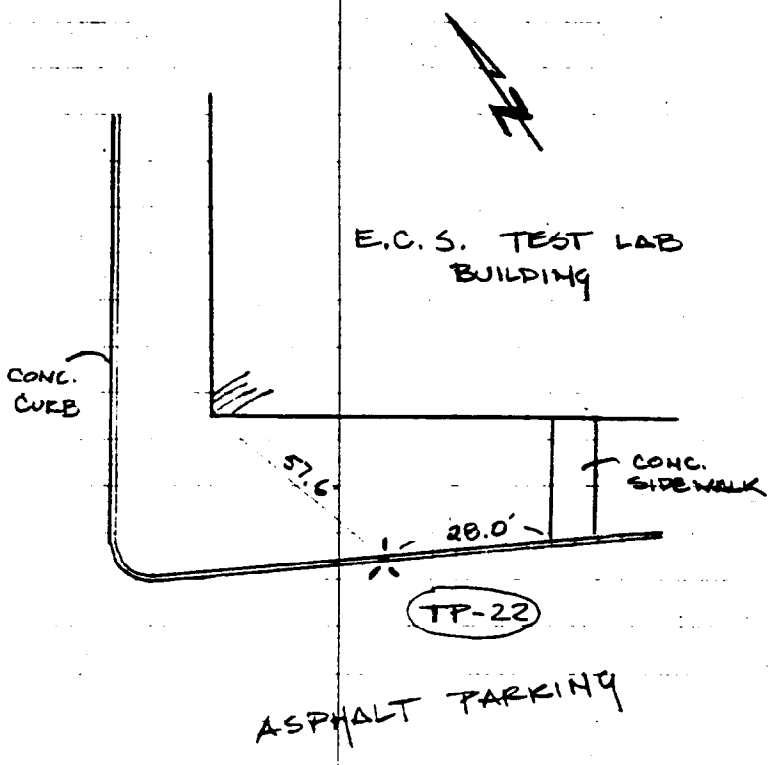
DECEMBER 19, 1991

AWT

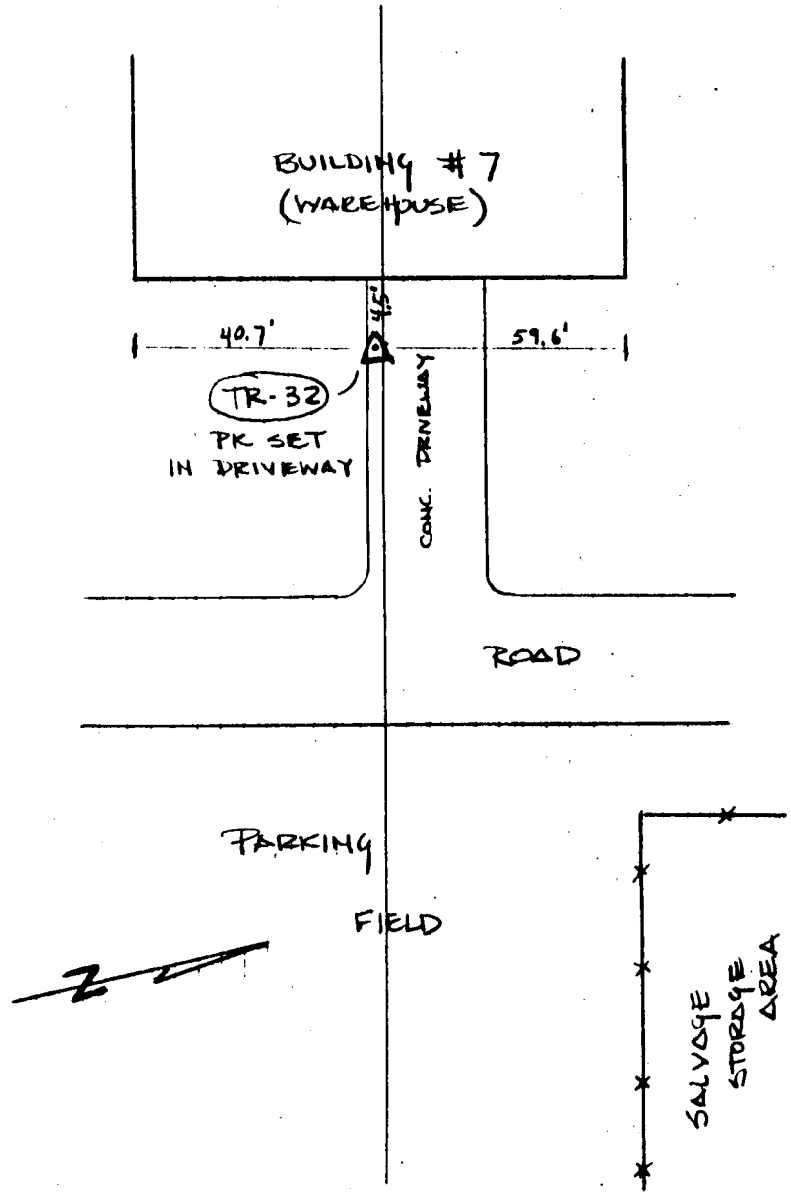
EN

AWT

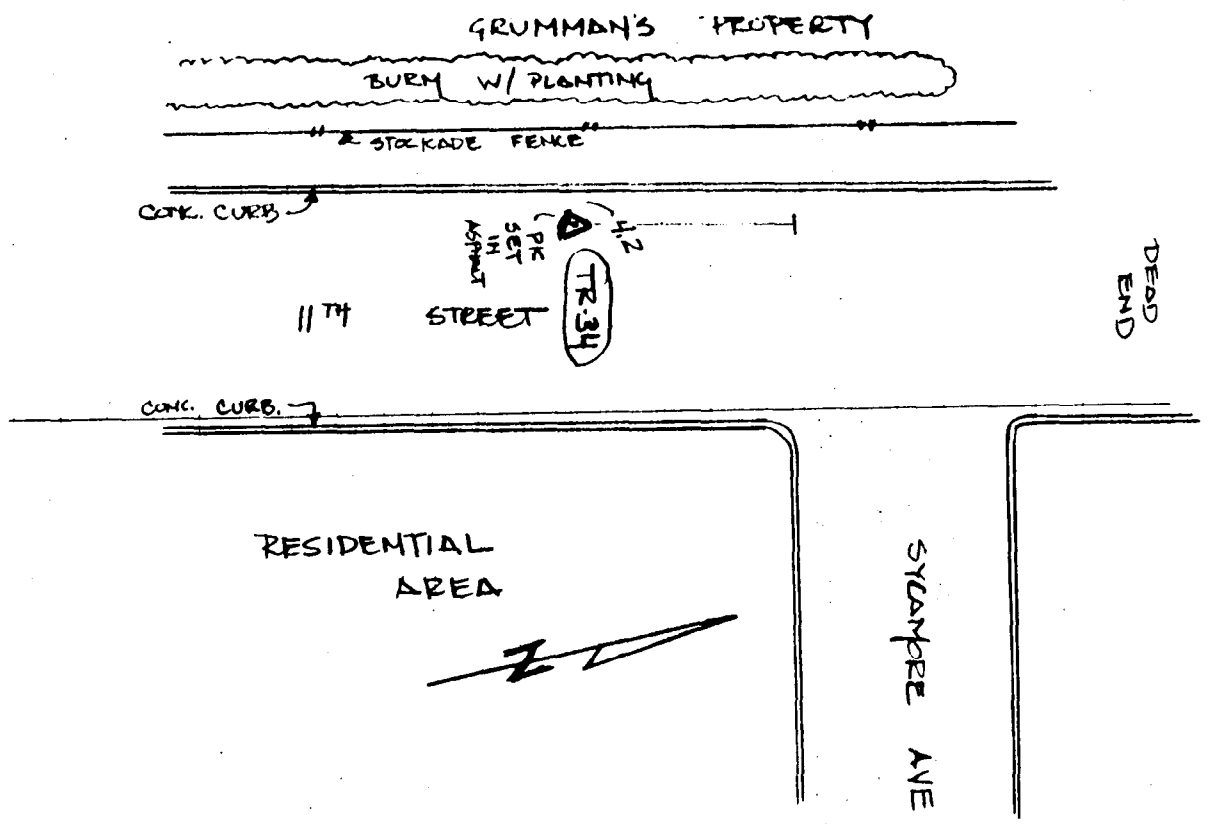



N
E.C.S. TEST LAB BUILDING
CONC. CURB
57.6'
CONC. SIDEWALK
28.0'
TP-22
ASPHALT PARKING

PARKING FIELD
STORAGE AREA
CHAIN LINK FENCE
5.2'
116.9'
TR-3
PK SET IN ASPHALT
54.55'
ASPHALT ROAD
GUARD RAIL
METAL BUILDING
N
RECHARGE BASIN


BUILDING #7
(WAREHOUSE)
40.7'
4.5'
59.6'
TR-32
PK SET
IN DRIVEWAY
CONC. DRIVEWAY
ROAD
PARKING
FIELD
SALVAGE
STORAGE
AREA

PLANT # 3
STOCKADE FENCE
108.4'
148.8'
TR-33
SET STAKE
124.1'
FRAME SHED
BURM W/ PLANTING
STOCKADE FENCE
11TH STREET
SYCAMORE AVENUE
DEAD END


GRUMMAN'S PROPERTY
BURM W/ PLANTING
STOCKADE FENCE
CONC. CURB
PK SET IN ASPHALT
4.2
TR-34
11TH STREET
DEAD END
CONC. CURB.
RESIDENTIAL AREA
N
SYCAMORE AVE

BENCH MARKS USED

• 13 S 11 — I 20 PLAINVIEW, OYSTER BAY
8/76

ELEV. 143.42 SQUARE CUT ON WEST CURB OF SOUTH OYSTER BAY ROAD 91.5' SOUTH OF CENTER LINE OF FIELD COURT IN FRONT OF TRAFFIC LIGHT SUPPORT POLE NO. CK 5/67 MX 8/76 GR.

• 13 S 12 — I 22 HICKSVILLE, OYSTER BAY
8/76

ELEV. 137.80 SQUARE CUT ON WEST CURB OF SOUTH OYSTER BAY RD. 1148' SOUTH OF CENTER LINE INTERSECTION OF STEWART AVENUE. 23' NORTH OF LILCO POLE NO. 29 CK 5/67 MX 8/76 GR.

MONITORING WELLS — ELEVATIONS AND LOCATIONS

WELL	NUMBER	WELL CASING ELEV.	GROUND SURFACE ELEV.	NORTHING	EASTING
HN	8 D	125.91	127.00	195690	2143032
HN	24 I	121.78	122.44	193711	2141395
HN	24 S	122.73	123.03	193709	2141412
HN	25 D	124.82	125.21	194706	2141695
HN	25 I	125.50	125.85	194695	2141729
HN	25 S	125.69	126.09	194681	2141691
HN	26 I	124.84	125.33	194845	2142226
HN	26 S	125.00	125.37	194837	2142199
* HN	27 I	128.59	125.66	194770	2142770
* HN	27 S	128.21	125.50	194762	2142752
HN	28 I	122.73	122.95	194407	2142974
HN	28 S	122.82	123.26	194416	2142983

CONTINUED

WELL NUMBER	WELL CASING ELEV.	GROUND SURFACE ELEV.	NORTHING	EASTING
HN 29 I	116.42	117.07	194222	2142742
*HN 29 S	119.04	116.93	194240	2142747
HN 29 D	115.11	115.66	194235	2142757
HN 30 I	126.27	126.72	195181	2143249
*HN 30 S	129.10	127.18	195149	2143271
USGS # 10623	120.83	121.25	194245	2143119

SOIL BORINGS — ELEVATIONS AND LOCATIONS

BORING NUMBER	GROUND SURFACE ELEV.	NORTHING	EASTING
SB 204	130.59	195634	2142385
SB 205	130.98	195566	2142165
SB 229	126.73	195169	2143261
SB 334	125.31	194016	2141682

GAS POINTS - ELEVATIONS AND LOCATIONS

GAS POINT NUMBER		ELEV.	NORTHING	EASTING
SG	103	125.95	194811	2142856
SG	104	123.15	194428	2143826
SG	105	124.35	194710	2142913
SG	106	124.02	194576	2142967
SG	110	123.38	194267	2142731
SG	111	125.88	194760	2142579
SG	112	124.73	194626	2142614
SG	113	125.52	194760	2142761
SG	115	123.65	194481	2142904
SG	117	123.04	194403	2142951
SG	119	124.78	194633	2142813

GAS POINT NUMBER		ELEV.	NORTHING	EASTING
SG	120	124.85	194644	2142744
SG	121	124.17	194517	2142796
SG	122	123.34	194425	2142917
SG	123	122.86	194419	2142977
SG	124	123.72	194498	2143000
SG	202	128.68	195837	2142925
SG	203	128.11	195774	2142692
SG	206	127.90	195451	2142328
SG	207	126.84	195172	2142263
SG	208	129.00		

GAS POINT	NUMBER	ELEV.	NORTHING	EASTING
SG	210	128.29	195023	2142681
SG	211	129.28	195155	2142694
SG	213	130.09	195387	2142556
SG	214	129.17	195550	
SG	215	128.30	195403	2142696
SG	216	128.89	195418	2142913
SG	217	129.56	195525	2142523
SG	218	128.47	195038	2142823
SG	219	128.59	195089	2143002
SG	220	128.09	195763	2142967
SG	221	128.13	195624	2143058
SG	222	129.22	195534	2143064

CONTINUED

GAS POINT	NUMBER	ELEV.	NORTHING	EASTING
SG	225	126.92	195455	2143147
SG	226	129.05	195367	2143101
SG	227	126.82	195312	2143203
SG	228	128.07	195213	2143143
SG	303	125.17	194861	2142292
SG	304	127.66	195396	2142153
SG	305	125.05	195006	2142254
SG	306	126.36	195259	2142176
SG	307	125.88	195209	2142073
SG	308	125.33	195114	2142223
SG	309	125.38	195126	2141929

POINT	NUMBER	ELEV.	NORTHING	EASTING
SG	310	124.47	195085	2142116
SG	311	125.81	195115	2141768
SG	312	124.15	194976	2142146
SG	313	127.03	195036	2141622
SG	314	124.69	194833	2142180
SG	315	127.85	195358	2142027
SG	316 A	125.00	194741	2141882
SG	316	125.04	194740	2141882
SG	317	126.88	194651	2141563
SG	318	124.72	194869	2141856
SG	319	126.44	194769	2141527

CONTINU

GAS POINT	NUMBER	ELEV.	NORTHING	EASTING
SG	320	124.58	194992	2141811
SG	321	126.17	194890	2141491
SG	322	124.70	195038	2141952
SG	325	127.96	195305	2141859
SG	326	126.14	194793	2142051
SG	327	128.00	195260	2141704
SG	328 A	125.81	194684	2141715
SG	328	125.86	194685	2141718
SG	329	128.37	195217	2141570
SG	334	125.32	194815	2141681
SG	336	125.20	194941	2141645

GAS POINT	NUMBER	ELEV.	NORTHING	EASTING
SG	338	127.27	195017	2141452
SG	340	128.27	195157	2141410
SG	341	125.38	194807	2141918
SG	342	125.14	194774	2141776
SG	343	125.84	194733	2141642

SOIL SAMPLES + ELEVATIONS AND LOCATIONS

SOIL	NUMBERS	ELEV.	NORTHING	EASTING
SS	1	123.60	194344	2142880
SS	2	123.23	194413	2142995
SS	3	124.14	194513	2142792
SS	8	128.29	195026	2142682
SS	9	128.73	195080	2143007
SS	10	126.54	195162	2143262
SS	15	128.85	195417	2142911
		[illegible]	195732	2142820
			[illegible]74	2142957

SOIL SAMPLE	NUMBERS	ELEV.	NORTHING	EASTING
SS	21	125.22	195032	2141733
SS	27	126.83	195029	2141630
SS	AA	127.63	195120	2141583

APPENDIX G

HYDROGEOLOGICAL CALCULATIONS

G.1 - AVERAGE HYDRAULIC GRADIENTS

G.2 - AVERAGE LINEAR VELOCITY

G.1

AVERAGE HYDRAULIC GRADIENTS

HALLIBURTON NUS Environmental Corporation and Subsidiaries — **STANDARD CALCULATION SHEET**

CLIENT:	FILE NO.:	BY:	PAGE 1 OF 1
BETHPAGE	3281	D. YOST	
SUBJECT: AVERAGE HYDRAULIC GRADIENT		CHECKED BY:	DATE: 1-31-92

AVERAGE HYDRAULIC GRADIENT IN GLACIAL DEPOSITS ACROSS SITE.
MEASURED FROM TWO WELLS (GM-8S, GM-13S) OFF POTENTIOMETRIC SURFACE MAP.

GM-8S 75.14 FEET
GM-13S - 72.67 FEET
2.47 FEET

HYDRAULIC GRADIENT =
(Potentiometric SURFACE (well #1) - Potentiometric SURFACE (well #2)) / DISTANCE BETWEEN WELLS

MEASURED DISTANCE BETWEEN GM-8S AND GM-13S = 2375'

$\frac{2.47'}{2375'} = .001 = K =$ HYDRAULIC GRADIENT

$.001 \times \frac{5280 \text{ FT}}{\text{mile}} = 5.28 \text{ Ft/mile} \approx 5.3 \text{ Ft/mile}$

AVERAGE HYDRAULIC GRADIENT IN MAGATHY FORMATION CAN BE CALCULATED IN THE SAME MANNER AS ABOVE USING WELLS GM-8I AND GM-13I.

GM-8I - 74.64'
GM-13I - 71.90'
2.74'

$\frac{2.74'}{2375'} = 0.001 = K =$ HYDRAULIC GRADIENT

$.001 \times \frac{5280 \text{ FT}}{\text{mile}} = 5.28 \frac{\text{Ft}}{\text{mile}} \approx 5.3 \text{ Ft/mile}$

G.2

AVERAGE LINEAR VELOCITY

HALLIBURTON NUS Environmental Corporation and Subsidiaries — **STANDARD CALCULATION SHEET**

CLIENT:	FILE NO.:	BY:	PAGE 1 OF 1
NWIRP BETHPAGE	3281	D. YOST	
SUBJECT: AVERAGE LINEAR VELOCITY		CHECKED BY:	DATE: 1-31-92

AVERAGE LINEAR VELOCITY = $\frac{k}{A_e} i = V$

WHERE V = AVERAGE LINEAR VELOCITY
k = HYDRAULIC CONDUCTIVITY
A_e = EFFECTIVE POROSITY
i = HYDRAULIC GRADIENT

FOR GLACIAL DEPOSITS:

k = 268 FT/DAY (Ib, 1966; M+F, 1972)
A_e = 0.3 (FETTER, 1988)
i = 0.001 (SEE APPENDIX H.1 FOR CALCULATIONS)

$$V = \frac{(268\ FT/DAY)(0.001)}{0.3} = 0.89 \approx 0.9\ FT/DAY$$

FOR MAGOTHY FORMATION:

k = 56 FT/DAY (G+M, 1990; Ib, 1966; M+F, 1972).
A_e = 0.3 (FETTER, 1988)
i = 0.001 (SEE APPENDIX H.1 FOR CALCULATIONS)

$$V = \frac{(56\ Ft/day)(0.001)}{0.3} = 0.19 \approx 0.2\ FT/DAY$$