

**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**





A



Appendix A

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

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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 Direction/ Distance(1) (feet)	Pumpage(2) P.
192	Bethpage Water Dist.	176	10	112-173	Withdrawal	Public Supply	Magothy	SE/4800	327°
325	Village of Farmingdale	68	12	30-68	Withdrawal	Public Supply	--	SE/17,100	133°
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	300°
746	Bethpage Water Dist.	120	10	81.5-120	Withdrawal	Public Supply	Magothy	SE/4800	610°
747	Bethpage Water Dist.	242	9	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	Air Cond. & Plant Use	Magothy	S/1500	300°
1665	Grumman	101	15	67-100	Industrial	Air Cond. & Plant Use	Magothy	SW/1400	1375°
1666	Grumman	108	15	74-98.5	Industrial	Air Cond. & Plant Use	Magothy	W/1200	1060°
1797	U.S. Navy	96	10	74-94	Industrial	Plant Use	Magothy	NW/1432	330°
1798	U.S. Navy	103	12	80-103	Industrial	Air Cond.	Magothy	N/1848	930°
1859	U.S. Navy	163	8	140-170	Industrial	Air Cond. & Plant Use	Magothy	N/1400	850°
1911	U.S. Navy	178	12	133-163	Industrial	Air Cond. & Plant Use	Magothy	NW/2100	800°
1912	U.S. Navy	159	12	119-149	Industrial	Air Cond. & Plant Use	Magothy	N/1716	800°
1922	U.S. Navy	187	12	130-160	Industrial	Plant Use	Magothy	N/2000	760°

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1923	Grumman	359	16	293-348	Industrial	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	Air Cond. & Plant Use	Magothy	W/1500	900°	8/44
1961	U.S. Navy	274	8	213-263	Industrial	Air Cond. & Plant Use	Magothy	N/2700	--	--
1963	U.S. Navy	186	17	97-127	Industrial	Air Cond. & Plant Use	Magothy	W/2200	--	--
2066	Bethpage Water Dist.	158	12	121-153	Withdrawal	Public Supply	Magothy	NE/6250	820°	2/4
2240	M. Catapano	89	8	73-89	Withdrawal	Irrigation	Upper Glacial	SW/2600	340°	5/4
2580	Lewitt & 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°	8/4
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	292-304	Withdrawal	Public Supply	Magothy	S/12,200	--	--
3428	--	611	--	--	--	--	--	NE/6250	--	--
3435	--	111.3	--	33-111.3	Withdrawal	Public Supply	--	SW/8100	--	--
3450	Hooker	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/10,600	--	--
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	1986
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/13,350	1800*	11/1
3876	Bethpage Water Dist.	386	16	328-385	Withdrawal	Public Supply	Magothy	S/7128	1500*	3/5
3893	N.Y. Water Service Corp.	151	14	96-151	Withdrawal	Public Supply	--	S/13,350	1809*	6/7
3898	LILCO	138	12	107.5-129	Industrial	Cooling	Upper Glacial	NW/6864	300*	10/1
3899	LILCO	134	8	13.5-124.5	Industrial	Cooling	Upper Glacial	NW/6864	113*	6.6
3900	LILCO	156	8	36.5-147.5	Industrial	Cooling	Upper Glacial	NW/6864	106*	8/5
4042	S. Farmingdale Water Dist.	157	12	96-154	--	--	--	SE/14,400	1250*	2/1
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*	1/5
4146	Bethpage Water Dist.	235	16	133-235	Withdrawal	Public Supply	Magothy	NE/3000	1480*	10/1
4175	--	69	--	34-69	Withdrawal	Irrigation	--	NE/4000	--	-
4176	--	318	--	44-318	Industrial	Cooling	--	--	--	-
4450	Levittown Water Dist.	472	12	415-472	Withdrawal	Public Supply	--	SW/13,200	1250*	7/1
4451	Levittown Water Dist.	403	12	231-281	Withdrawal	Public Supply	Magothy	SW/6500	204506	19
4708	Pittsburgh Plate Corp.	169	10	149-169	Industrial	Industrial	Magothy	NW/3036	439*	7/1

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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°	3
5149	LILCO	193	12	21.3-175.5	Industrial	Cooling	Magothy	NW/7128	527°	4.5
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	General Supply	Magothy	N/2376	1016°	8
5306	U.S. Navy	256	12	173-208 233-255	Industrial	General Supply	Magothy	N/2244	1016°	8
5368	Hooker	150	10	10.5-141.5	Industrial	Processing	Magothy	NW/3700	723°	5
5390	Hooker	143	12	82-137	Industrial	Cooling & Processing	Magothy	NW/3300	412°	11
5388	--	45	--	22-45	Industrial	Cooling	--	S/8700	--	--
6078	Bethpage Water Dist.	275	24	225-275	Industrial	Public Supply	Magothy	NE/5000	6677	15
6130	S. Farmingdale Water Dist.	612	12	545-612	Withdrawal	Public Supply	--	S/14,250	1420°	6
6192	Hicksville Water Dist.	626	20	575-626	Industrial	Public Supply	Magothy	N/6072	53505	1
6193	Hicksville Water Dist.	467	12	396-456	Industrial	Public Supply	Magothy	NW/6448	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	106029	172
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	216	--	37-216	--	--	--	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*	37
6775	Plastic Materials	105	6	87-105	Industrial	Cooling	Magothy	NW/4620	50*	11
6683	--	133	--	60-133	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	69.3-81.3	Industrial	Sprinkling	Upper Glacial	SW/2800	48*	10/6
6996	Serial Recording	120	8	103-119	Industrial	Cooling	Upper Glacial	NW/5016	--	--
7004	GMI Assoc.	150	6	124-150	Industrial	Cooling	Magothy	NW/4350	--	--

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7076	Levittown Water Dist.	674	20	569-674	Withdrawal	Public Supply	Magothy	S/9600	329875
7094	--	57	--	25-57	Industrial	Cooling	--	S/9300	--
7120	Bonta Recording	128	8	104-128	Industrial	Cooling	Upper Glacial	W/3616	37°
7164	--	83	--	28-83	Industrial	Air Cond.	--	S/9200	--
7377	S. Farmingdale Water Dist.	738	12	607-738	Withdrawal	Public Supply	--	SE/13,300	1400°
7438	Bethpage State Park	555	20	484-555	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.	509	12	495-509	Withdrawal	Public Supply	--	SE/14,300	1500°
7518	Grumman	375	16	314-375	Industrial	Cooling	Magothy	N/2100	342303
7523	Levittown Water Dist.	684	12	590-684	Withdrawal	Public Supply	Magothy	S/11,900	--
7531	LILCO	187	18	143-187	Industrial	Air Cond.	Magothy	W/7120	654°
7584	U.S. Navy	366	16	288-316 336-366	Industrial	Cooling	Magothy	W/2200	217012
7535	U.S. Navy	357	12	288-290 304-357	Industrial	Cooling	Magothy	W/2100	189368
7536	U.S. Navy	436	12	373-436	Industrial	Cooling	Magothy	N/1848	132383
7635	U.S. Navy	394	12	314-344 364-394	Industrial	Cooling	Magothy	W/1300	226689
7636	U.S. Navy	375	12	312-375	Industrial	Cooling	Magothy	N/1716	3536
7637	U.S. Navy	480	12	419-480	Industrial	Cooling	Magothy	N/1400	125785
7708	Inland Trees Public School	64	8	49-64	Withdrawal	Irrigation	Upper Glacial	S/10,100	--

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NYC 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 Direction/ Distance(1) (feet)	Page(2)	Per
7852	Village of Farmingdale	457	12	600-457	Withdrawal	Public Supply	--	SE/17,100	1248°	8
7876	--	68	--	30-68	Industrial	Car Wash	--	S/9300	--	
8004	Bethpage Water Dist.	740	20	670-740	Withdrawal	Public Supply	Magothy	S/9100	82031	19
8019	--	72	--	36-72	Industrial	Cooling	--	S/9400	--	
8072	--	41	--	--	--	--	--	SW/10,400	--	
8124	Grumman	543	16	483-543	Industrial	--	Magothy	SW/2200	5799	10
8134	U.S. Navy	320	12	420-320	Industrial	Cooling	Magothy	SW/1400	248014	10
8263	--	330	--	32-330	--	--	--	SW/3300	--	
8279	Levittown Water Dist.	347	12	289-347	Withdrawal	Public Supply	Magothy	S/12,200	--	
8221	Levittown Water Dist.	674	12	369-674	Withdrawal	Public Supply	--	SW/11,500	1230°	8
8424	Grumman	300	12	499-300	Industrial	Cooling	Magothy	S/2376	173789	1
8480	N.Y. Water Service Corp.	633	12	356-633	Withdrawal	Public Supply	--	S/15,330	2200°	1
8322	Mid Island Hospital	120	10	100-120	Withdrawal	Institutional	Upper Glacial	S/9850	--	
8333	Hicksville Water Dist.	302	20	432-302 493-302	Withdrawal	Public Supply	Magothy	W/6400	100343	1
8326	Hicksville Water Dist.	602	20	323-601	Withdrawal	Public Supply	Magothy	W/10,800	198266	
8641	U.S. Navy	487	12	616-487	Industrial	Cooling	Magothy	SW/1650	312223	
8767	Bethpage Water Dist.	640	10	579-640	Withdrawal	Public Supply	Magothy	SE/4750	355916	
8768	Bethpage Water Dist.	678	16	603-678	Withdrawal	Public Supply	Magothy	SE/3000	194371	
8778	Hicksville Water Dist.	390	20	326-390	Withdrawal	Public Supply	Magothy	SW/8072	87437	



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8778	Elkville Water Dist.	383	20	324-383	Withdrawal	Public Supply	Magothy	NW/3900	221640
8789	Whetley Hills O & C	221	8	190-221	Withdrawal	Irrigation	Magothy	S/9200	--
8816	U.S. Navy	300	12	430-300	Industrial	General	Magothy	N/2000	148619
8842	Grumman	370	12	319-370	Industrial	Multi-Purpose	Magothy	S/2600	104294
8941	Bethpage Water Dist.	770	12	690-738 730-773	Withdrawal	Public Supply	Magothy	S/7300	293843
9078	NCDPW	70	4	--	Observation	--	Upper Glacial	W/1300	--
9084	NCDPW	60	4	--	Observation	--	Upper Glacial	NW/9000	--
9106	McLellan Stores	60	4	53-60	Withdrawal	Air Cond.	--	SE/13,180	30*
9180	Elkville Water Dist.	630	20	343-367 368-630	Withdrawal	Public Supply	Magothy	W/6072	346518
9238	F.Y. Water Services Corp.	646	10	384-646	Withdrawal	Public Supply	--	S/13,330	1723*
9391	Bethpage Water Dist.	682	20	614-682	Withdrawal	Public Supply	Magothy	S/6000	17672
9454	NCDPW	33	2	--	Observation	--	Upper Glacial	S/10,000	--
9461	NCDPW	37	2	--	Observation	--	Upper Glacial	SE/11,400	--
9476	NCDPW	77	4	--	Observation	--	Magothy	NW/6200	--
9520	NCDPW	89	4	--	Observation	--	Magothy	NW/7400	--
9521	NCDPW	68	4	--	Observation	--	Upper Glacial	S/3658	--
9527	NCDPW	94	4	--	Observation	--	Upper Glacial	NW/11,400	--
9529	NCDPW	48	4	--	Observation	--	Upper Glacial	S/9400	--
9531	NCDPW	73	4	--	Observation	--	Upper Glacial	S/1638	--
9532	NCDPW	105	4	--	Observation	--	Upper Glacial	N/6000	--
9533	NCDPW	123	4	--	Observation	--	Magothy	NE/12,300	--
10208	Elkville Water Dist.	649	12	371-649	Withdrawal	Public Supply	--	NW/6000	1367*

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10535	Hicksville Water Dist.	693	12	608-693	Withdrawal	Public Supply	--	NW/7200	1380*	4
10588	USGS	76	2	70.5-76.5	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	W/4106	--	--
10591	USGS	78	2	72-78	Observation	--	Upper Glacial	WR/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/4264	--	--
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/8969	--	--
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/2400	--	--
10627	USGS	310	4	300	Observation	--	Upper Glacial	S/5037	--	--
10628	USGS	67	2	63-67	Observation	--	Upper Glacial	SE/3350	--	--
10629	USGS	109	2	105-109	Observation	--	--	S/350	--	--
10630	USGS	308	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/7380	--
10815	USGS	61	2	57-61	Observation	--	Upper Glacial	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	248-347	Withdrawal	Public Supply	--	SE/12000	1287°
11143	--	--	--	--	--	--	--	SE/12000	--
A-1	Hooker/Ruse	67	2	54-67	Observation	--	--	NW/3898	--
A-2	Hooker/Ruse	112	2	105-112	Observation	--	--	NW/3898	--
B-1	Hooker/Ruse	69	2	49-69	Observation	--	--	NW/4000	--
B-2	Hooker/Ruse	104	2	86-104	Observation	--	--	NW/4000	--
C-1	Hooker/Ruse	78	2	56-78	Observation	--	--	NW/3306	--

GERAGHTY &amp; MILLER, INC.

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) Per(3)	Per(3)
C-2	Hooker/Ruco	124	2	114-124	Observation	--	--	NW/3300	--	--
D-1	Hooker/Ruco	85	2	45-85	Observation	--	--	NW/3100	--	--
D-2	Hooker/Ruco	91	2	86-91	Observation	--	--	NW/3100	--	--
E-1	Hooker/Ruco	86	2	46-86	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)

LEG (1984)

Kilburn (1982)

GERAGHTY & MILLER, INC.

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	100	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	22	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	<1	<1	--	<1	<9	<1	<1
1,1,1-Trichloroethane	<1	<4	3	1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	--	--
Chloroform	<1	<1	<1	1	<1	<1	<1
Bromoform	<1	<1	<2	<1	<2	<1	<1
Vinyl chloride	--	<1	--	--	--	--	--
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<1	--	<5	<9	--	--
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<4	4	<9	<4	<11	--	--
1,2-Dichloroethane	<4	<1	--	<4	--	<1	<1
1,1-Dichloroethylene	<1	<1	--	<1	<9	--	--
Benzene	<4	<1	<3	<4	<4	<1	<1
Chlorobenzene	<5	<1	<9	<5	<7	--	--
Dichlorobenzene	<10	--	<20	<10	<16	--	--
Ethylbenzene	<3	<1	<6	<3	<5	<1	<1
Toluene	<4	<1	<7	<4	<5	<1	<1
Xylene	<4	--	<9	<4	<9	--	--
Trichlorofluoromethane	--	--	--	--	--	--	--
1,2-Dichloroethylene	--	--	--	--	--	--	--
1,3-Dichloropropene	--	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--	--
<b>Total Volatile Organic Compounds</b>	<b>0</b>	<b>4</b>	<b>3</b>	<b>104</b>	<b>0</b>	<b>0</b>	<b>0</b>

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Sources:

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	<3	<6
Toluene		<0.5	<0.5	<0.5	<0.5	<3	<3
Xylene		--	--	--	--	<6	<8
Trichlorofluoromethane		--	--	--	--	<1	--
1,2-Dichloroethylene		--	--	--	--	<3	--
1,3-Dichloropropane		--	--	--	--	--	--
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  
Crummen Aerospace Corporation, Bethpage, New York.

	Well Number:	3876	3876	4043	4043	4043	4043
	Sample Date:	11/86	3/88	1/86	2/88	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:

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	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-Dichloropropane		--	--	--	--	--	--
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	<1
Tetrachloroethylene	<0.5	4	9	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	--	<8	<9	<8	<9	<9	<1
1,1,1-Trichloroethane	<0.5	<1	<1	<1	<2	<1	<1
1,1,2-Trichloroethane	<0.5	<2	<1	<1	<4	--	--
Chloroform	<0.5	<1	<1	<1	<1	<1	<1
Bromoform	<0.5	<2	<2	<2	<3	<1	<1
Vinyl chloride	<0.5	<1	--	--	--	--	--
Carbon tetrachloride	<0.5	<1	<1	<1	<1	<1	<1
Methylene chloride	<0.5	--	--	<8	<9	--	--
Dibromochloromethane	<0.5	<1	<2	<1	<3	<1	<1
Bromodichloromethane	<0.5	<1	<1	<1	<2	<1	<1
1,1-Dichloroethane	<0.5	<5	<6	<14	<6	--	--
1,2-Dichloroethane	<0.5	--	--	--	--	<1	<1
1,1-Dichloroethylene	<0.5	--	--	<8	<9	--	--
Benzene	<0.5	<3	<3	<3	<3	<1	<1
Chlorobenzene	<0.5	<3	<5	<3	<4	--	--
Dichlorobenzene	--	<25	<20	<9	<32	--	--
Ethylbenzene	<0.5	<3	<7	<6	<3	<1	<1
Toluene	<0.5	<3	<4	<6	<3	<1	<1
Xylene	--	<6	<8	<6	<4	--	--
Trichlorofluoromethane	--	<1	--	--	--	--	--
1,2-Dichloroethylene	--	<5	--	--	--	--	--
1,3-Dichloropropane	--	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--	--
Total Volatile Organic Compounds	0	4	9	0	0	0	0

ug/L Micrograms per liter.

\* Laboratory concentration suspected.

-- Not analyzed.

Source:

MCDE (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:	3302	3302	3302	3302	3302	3302
	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	<6	<0.5	<0.5	<0.5
Toluene		<0.5	<0.5	<5	<0.5	<0.5	<0.5
Xylene		--	--	<3	--	--	--
Trichlorofluoroethane		--	--	--	--	--	--
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:

RCDE (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		<10	<1	<1	<3	<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	<3	<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:

NCDE (1988, 1989)

GERAGHTY & MILLER, INC.

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

	Well Number:	6130	6130	6130	6130	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-Dichloropropane	--	--	--	--	--	--	
1,2-Dibromoethane	--	--	--	--	--	--	
Total Volatile Organic Compounds	0	0	0	0	0	0	

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Source:

RCDE (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	6380	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	<1
Tetrachloroethylene	2	1	<1	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	--	<9	<8	<1	<1	--	--
1,1,1-Trichloroethane	28	7	<1	<3	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<2	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<2	<2	<1	<2	<1	<1
Vinyl chloride	--	--	<1	<1	--	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	18*	<9	<8	<1	--	<1	<1
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	23	<11	<3	<1	<9	<1	<1
1,2-Dichloroethane	<3	--	--	<1	--	<1	<1
1,1-Dichloroethylene	2	<9	<8	<1	--	<1	<1
Benzene	<4	<4	<3	<1	<3	<2	<2
Chlorobenzene	<3	<7	<3	<1	<9	<1	<1
Dichlorobenzene	<10	<16	<25	--	<20	--	--
Ethylbenzene	<3	<3	<3	<1	<6	<2	<2
Toluene	<4	<3	<3	<1	<7	<2	<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	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:	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	1.0	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-Dichloropropane		--	--	--	--	--	--
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:

SCDE (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	<1	59
Tetrachloroethylene	<0.5	<0.5	<1	<1	<1	<1	3
1,1,2-Trichlorotrifluoroethane	--	--	<8	<8	<8	<8	<8
1,1,1-Trichloroethane	<0.5	<0.5	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<0.5	<0.5	<2	<2	<2	<2	<2
Chloroform	<0.5	<0.5	--	15	<1	<1	<1
Bromoform	<0.5	<0.5	3	3	<1	<1	<1
Vinyl chloride	<0.5	<0.5	<1	<1	--	--	--
Carbon tetrachloride	<0.5	<0.5	<1	<1	<1	<1	<1
Methylene chloride	<0.5	<0.5	<8	<8	<8	<8	<8
Dibromochloromethane	<0.5	<0.5	--	--	<1	<1	<1
Bromodichloromethane	<0.5	<0.5	1	1	<1	<1	<1
1,1-Dichloroethane	<0.5	<0.5	<5	<5	<5	<5	<5
1,2-Dichloroethane	<0.5	<0.5	--	--	--	--	--
1,1-Dichloroethylene	<0.5	<0.5	<8	<8	<8	<8	<8
Benzene	<0.5	<0.5	<3	<3	<3	<3	<3
Chlorobenzene	<0.5	<0.5	<3	<3	<3	<3	<6
Dichlorobenzene	--	--	<25	<25	<30	<20	<20
Ethylbenzene	<0.5	<0.5	<5	<5	<6	<10	<10
Toluene	<0.5	<0.5	<3	<3	<3	<4	<4
Xylene	--	--	<6	<6	<8	<10	<10
Trichlorofluoromethane	--	--	<1	<1	--	<1	<1
1,2-Dichloroethylene	--	--	<5	<5	--	9	9
1,3-Dichloropropane	--	--	2	2	--	<1	<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:

NCEM (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	3/86	7/86
	Well Depth (ft):	150	674	674	758	758	758
Volatile Organic Compounds (concentrations in ug/L)							
Trichloroethylene		36	<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	<3	--	--	--	--
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.

Sources:

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:	7377	7377	7377	7377	7377	7377
	Sample Date:	5/87	5/88	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	<0.5	<1
Tetrachloroethylene	<1	<0.5	<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	<0.5	<1
1,1,2-Trichloroethane	<1	<0.5	<0.5	<0.5	<0.5	<0.5	--
Chloroform	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Bromoform	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Vinyl chloride	<1	<0.5	<0.5	<0.5	<0.5	<0.5	--
Carbon tetrachloride	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Methylene chloride	<1	<0.5	<0.5	<0.5	<0.5	<0.5	--
Dibromochloromethane	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Bromodichloromethane	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1
1,1-Dichloroethane	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1
1,2-Dichloroethane	<1	<0.5	<0.5	<0.5	<0.5	<0.5	--
1,1-Dichloroethylene	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Benzene	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Chlorobenzene	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1
Dichlorobenzene	--	--	--	--	--	--	--
Ethylbenzene	<1	<0.5	<0.5	<0.5	<0.5	<0.5	--
Toluene	<1	<0.5	<0.5	<0.5	<0.5	<0.5	--
Xylene	--	--	--	--	--	--	--
Trichlorofluoromethane	--	--	--	--	--	--	--
1,2-Dichloroethylene	--	--	--	--	--	--	--
1,3-Dichloropropane	--	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--	--
Total Volatile Organic Compounds	0	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:	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	<1	<0.5
Tetrachloroethylene	<0.5	<1	<1	<1	<1	<1	<0.5
1,1,2-Trichlorotrifluoroethane	--	<1	<8	<1	<10	--	--
1,1,1-Trichloroethane	<0.5	<5	<1	<1	<1	<1	<0.5
1,1,2-Trichloroethane	<0.5	<1	<2	<1	<1	<1	<0.5
Chloroform	2.60	<1	<1	<1	<1	<1	<0.5
Bromoform	<0.5	<1	<2	<1	<1	<1	<0.5
Vinyl chloride	<0.5	<1	--	<1	--	--	<0.5
Carbon tetrachloride	<0.5	<1	<1	<1	<1	<1	<0.5
Methylene chloride	<0.5	<2	<8	<1	<10	<1	<0.5
Dibromochloromethane	<0.5	<1	<1	<1	<2	<1	<0.5
Bromodichloromethane	0.5	<1	<1	<1	<1	<1	<0.5
1,1-Dichloroethane	<0.5	<1	<5	<1	<5	<1	<0.5
1,2-Dichloroethane	<0.5	<1	--	<1	--	<1	<0.5
1,1-Dichloroethylene	<0.5	<1	<8	<1	<10	<1	<0.5
Benzene	<0.5	<1	<3	<1	<3	<1	<0.5
Chlorobenzene	<0.5	<1	<3	<1	<3	<1	<0.5
Dichlorobenzene	--	--	<25	--	<20	--	--
Ethylbenzene	<0.5	<1	<5	<1	<5	<1	<0.5
Toluene	<0.5	<1	<3	<1	<3	<1	<0.5
Xylene	--	--	<6	--	<6	--	--
Trichlorofluoromethane	--	--	--	--	--	--	--
1,2-Dichloroethylene	--	--	--	--	--	--	--
1,3-Dichloropropane	--	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--	--
Total Volatile Organic Compounds	3.1	0	0	0	0	0	0

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Source:

RCDE (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:	6/88	7/88	10/88	1/89	6/89	3/86
	Well Depth (ft):	332	332	332	332	332	389
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:

RCDE (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  
Crumann 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	
Trichlorofluoroethane	--	<1	<1	<1	<1	88*	
1,2-Dichloroethylene	--	<4	<8	38	82	<5	
1,3-Dichloropropene	--	--	--	--	--	--	
1,2-Dibromoethane	--	--	--	--	--	--	
<b>Total Volatile Organic Compounds</b>	<b>0</b>	<b>12</b>	<b>12</b>	<b>404</b>	<b>325</b>	<b>477*</b>	

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Source:

NCEM (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):	157	436	436	394	394	373
Volatile Organic Compounds (concentrations in ug/L)							
Trichloroethylene		68	39	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	<5	<6	<4	<6
Dichlorobenzene		<17	<25	<20	<20	<17	<20
Ethylbenzene		<4	<6	<4	<10	<4	<10
Toluene		<4	<5	<5	<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:

NCDM (1988, 1989)

Table 2. Volatile Organic Compounds Detected in Wells Within a three-Mile Radius of the  
Crumann 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	16	<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	<6	<3	<1	<9
1,2-Dichloroethane		--	--	--	--	<1	--
1,1-Dichloroethylene		--	--	--	--	<1	--
Benzene		<3	<3	<3	<3	<1	<3
Chlorobenzene		<3	<3	<3	<4	<1	<9
Dichlorobenzene		<20	<25	<28	<20	--	<20
Ethylbenzene		<4	<6	<4	<4	<1	<6
Toluene		<3	<3	<3	<4	<1	<7
Xylene		<3	<6	<3	<6	--	<9
Trichlorofluoromethane		<1	<1	<1	<1	--	--
1,2-Dichloroethylene		<8	<4	<8	<7	--	--
1,3-Dichloropropane		--	--	--	--	--	--
1,2-Dibromoethane		--	--	--	--	--	--
Total Volatile Organic Compounds		71	21	22	0	0	0

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Neg. analyzed.

Sources:

USEPA (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	<0.5
Tetrachloroethylene	<1	<1	<0.5	<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	<0.5
1,1,2-Trichloroethane	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	<1	<2	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl chloride	<1	--	<0.5	<0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride	<1	<8	2.3*	<0.5	<6	<0.5	<0.5
Dibromochloromethane	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	<1	<6	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	<1	--	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethylene	<1	<8	<0.5	<0.5	<0.5	<0.5	<0.5
Benzene	<2	<3	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	<1	<3	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorobenzene	--	<30	--	--	--	--	--
Ethylbenzene	<2	<3	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	<2	<3	<0.5	<0.5	<0.5	<0.5	<0.5
Xylenes	--	<8	--	--	--	--	--
Trichlorofluoromethane	--	--	--	--	--	--	--
1,2-Dichloroethylene	--	--	--	--	--	--	--
1,3-Dichloropropene	--	--	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--	--
Total Volatile Organic Compounds	0	0	2.3*	0	0	0	0

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Source:

SCDH (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	743	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	13
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	<6
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
Trichlorofluoroethane		--	--	--	<1	<1	<1
1,2-Dichloroethylene		--	--	--	<5	<4	12
1,3-Dichloropropene		--	--	--	--	--	--
1,2-Dibromoethane		--	--	--	--	--	--
<b>Total Volatile Organic Compounds</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>340</b>	<b>214</b>

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Source:

SCDE (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	<6	<6	<6	--	<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
Trichlorofluoroethane		<1	<1	--	--	--	--
1,2-Dichloroethylene		18	21	--	--	--	--
1,3-Dichloropropene		--	--	--	--	--	--
1,2-Dibromoethane		--	--	--	--	--	--
<b>Total Volatile Organic Compounds</b>		<b>627</b>	<b>866</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Source:

NYDEC (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	8434
	Sample Date:	3/88	6/88	9/88	12/88	3/89	9/88
	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	<3
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.

Sources:

RCDE (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	<6	<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	<6	<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:

RCDE (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	3/89	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	<3
Dichlorobenzene		--	--	--	--	<10	<25
Ethylbenzene		<0.5	<0.5	<0.5	<0.5	<3	<4
Toluene		<0.5	<0.5	<0.5	<0.5	<3	<3
Xylene		--	--	--	--	<3	<6
Trichlorofluoroethane		--	--	--	--	--	--
1,2-Dichloroethylene		--	--	--	--	--	--
1,3-Dichloropropane		--	--	--	--	--	--
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:

RCDE (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	7/88
	Well Depth (ft):	601	487	--	643	643	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	<3	<3	<3	<3	<11
1,2-Dichloroethane		--	--	--	--	--	--
1,1-Dichloroethylene		<10	--	--	<8	<8	<9
Benzene		<3	<3	<3	<3	<3	<4
Chlorobenzene		<3	<6	<4	<3	<3	<7
Dichlorobenzene		<25	<20	<17	<25	<30	<16
Ethylbenzene		<4	<10	<4	<5	<6	<5
Toluene		<3	<4	<4	<3	<3	<3
Xylenes		<6	<10	<3	<6	<8	<9
Trichlorofluoromethane		--	<1	<1	<1	--	--
1,2-Dichloroethylene		--	6	20	<3	--	--
1,3-Dichloropropane		--	--	--	<1	--	--
1,2-Dibromoethane		--	--	--	--	--	--
<b>Total Volatile Organic Compounds</b>		<b>8</b>	<b>134</b>	<b>181</b>	<b>0</b>	<b>0</b>	<b>0</b>

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Source:

MSDE (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	<28	<29	<29	<25	--	
Ethylbenzene	<5	<8	<10	<4	<5	<10	
Toluene	<3	<7	<4	<3	<3	<10	
Xylene	<6	<9	<10	<3	<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:

SCDH (1988, 1989)



Table 2. Volatile Organic Compounds Detected in Wells Within a Three-Mile Radius of the  
Crumen Aerospace Corporation, Bathpage, 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
Xylenes		<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-Dibromomethane		--	--	--	--	--	--
<b>Total Volatile Organic Compounds</b>		<b>12</b>	<b>162</b>	<b>283</b>	<b>82</b>	<b>9*</b>	<b>10*</b>

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	<1
Tetrachloroethylene	2	20	<1	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	<6	<8	--	<8	<9	<6	<6
1,1,1-Trichloroethane	<1	<1	<1	<3	<2	<1	<1
1,1,2-Trichloroethane	<1	<2	<1	<2	<4	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1
Bromoform	<2	<2	<1	<2	<3	<2	<2
Vinyl chloride	--	<1	<1	--	--	--	--
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<6	<8	<1	<8	<9	<6	<6
Dibromochloromethane	<1	<1	<1	<1	<3	<1	<1
Bromodichloromethane	<2	<1	<1	<1	<2	<2	<2
1,1-Dichloroethane	<3	<3	<1	<3	<6	<3	<3
1,2-Dichloroethane	--	--	<1	--	--	--	--
1,1-Dichloroethylene	<8	<8	<1	<8	<9	<6	<6
Benzene	<3	<3	<1	<18	<3	<3	<3
Chlorobenzene	<4	<3	<1	<6	<4	<4	<4
Dichlorobenzene	<20	<25	--	<20	<32	<20	<20
Ethylbenzene	<4	<3	<1	<10	<3	<4	<4
Toluene	<3	<3	<1	<4	<3	<3	<3
Xylene	<6	<6	<1	<10	<4	<6	<6
Trichlorofluoromethane	--	<1	--	--	--	--	--
1,2-Dichloroethylene	--	<13	--	--	--	--	--
1,3-Dichloropropane	--	<1	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	--	--
Total Volatile Organic Compounds	2	21	0	0	0	0	0

ug/L Maximum per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Source:

RCDE (1986, 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	<3
Toluene		<0.5	<0.5	<0.5	<0.5	<0.5	<3
Xylenes		--	--	--	--	--	<8
Trichlorofluoromethane		--	--	--	--	--	<1
1,2-Dichloroethylene		--	--	--	--	--	<5
1,3-Dichloropropene		--	--	--	--	--	<1
1,2-Dibromomethane		--	--	--	--	--	--
Total Volatile Organic Compounds		0	0	0	0.5	0	0

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

Sources:

RCDE (1988, 1989)

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

	Well Number:	9591	9634	9634	9634	9634	991B
	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	<3	<4	<2	<9
1,2-Dichloroethane		--	--	--	--	--	--
1,1-Dichloroethylene		<9	--	--	--	<25	<10
Benzene		<3	<3	<3	<3	<3	<3
Chlorobenzene		<3	<3	<4	<3	<3	<3
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
Trichlorofluoroethane		--	<1	<1	<1	<1	<1
1,2-Dichloroethylene		--	<4	<7	<8	<6	<4
1,3-Dichloropropane		--	--	--	--	--	<1
1,2-Dibromoethane		--	--	--	--	--	--
Total Volatile Organic Compounds		0	17	4	0	1	0

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Sources:

SCDE (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	3/87
	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	<3	<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	<3	<3
1,2-Dichloroethane		<20	--	--	<20	--	--
1,1-Dichloroethylene		1	<10	<25	<1	<8	<7
Benzene		<3	<3	<3	<3	<18	260
Chlorobenzene		<3	<3	<3	<3	<6	<4
Dichlorobenzene		<10	<25	<12	<10	<20	<20
Ethylbenzene		<3	<6	<3	<3	<10	<4
Toluene		<3	<3	<3	<3	<4	<4
Xylene		<3	<6	<3	16	<10	27
Trichlorofluoroethane		--	<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	153

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	8/88	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	290	<3	<3	<3	<3
Chlorobenzene		<3	<3	<3	<3	<3	<3
Dichlorobenzene		<20	<12	<20	<6	--	<25
Ethylbenzene		<4	<3	<4	<3	<3	<4
Toluene		<3	<3	<3	<6	<3	<3
Xylene		47	92	<3	<4	<3	<6
Trichlorofluoroethane		<1	<1	<1	<1	--	<1
1,2-Dichloroethylene		<8	<13	<8	<6	--	<4
1,3-Dichloropropene		--	--	--	--	--	<1
1,2-Dibromoethane		--	--	--	--	--	--
<b>Total Volatile Organic Compounds</b>		<b>296</b>	<b>434</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Source:

SCOE (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		<3	<30	<10	<3	<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	<15	<20	<20	<6
Ethylbenzene		<6	<3	<4	<4	<4	<3
Toluene		<4	<3	<4	<3	<3	<4
Xylene		<4	<3	<7	<6	<3	<4
Trichlorofluoroethane		--	--	--	--	<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:

ECDE (1986, 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		<5	--	<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	<3	<3	<1	<6	<3
Toluene		<4	<4	<4	<1	<7	<3
Xylene		<4	<3	<4	--	<9	<6
Trichlorofluoroethane		--	--	--	--	--	--
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 (1982, 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	9/89
	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	<6
Toluene		<0.5	<0.5	<0.5	<0.5	<0.5	<5
Xylenes		--	--	--	--	--	<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.

Sources:

SCDE (1988, 1989)

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

	Well Number:	10589	10589	10589	10589	10590	10591
	Sample Date:	10/86	5/87	7/88	11/88	10/88	9/86
	Well Depth (ft):	76	76	76	76	76	76
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		<3	<3	<3	<2	<3	<3
1,2-Dichloroethane		--	--	--	--	--	--
1,1-Dichloroethylene		<8	<7	--	<25	<8	<10
Benzene		<3	<3	<3	<3	<3	<3
Chlorobenzene		<6	<6	<6	<3	<6	<3
Dichlorobenzene		<20	<20	<17	<12	<20	<25
Ethylbenzene		<10	<4	<4	<3	<10	<6
Toluene		<4	<4	<4	6	<4	<3
Xylene		<10	<6	<3	<3	<10	<4
Trichlorofluoroethane		<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene		<6	<7	<6	<15	<6	<6
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	6/87	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	--	<3	<3
1,2-Dichloroethane		--	--	--	--	--	--
1,1-Dichloroethylene		--	<25	<10	--	<7	--
Benzene		<3	<3	<3	--	3	7
Chlorobenzene		<3	<3	<3	--	<4	<4
Dichlorobenzene		<20	<12	<25	--	<28	<17
Ethylbenzene		<4	<3	<4	--	<4	<4
Toluene		<3	8	<3	--	<4	<4
Xylene		<3	<3	<4	--	<4	<3
Trichlorofluoromethane		<1	<1	<1	--	<1	<1
1,2-Dichloroethylene		<8	<13	<4	--	348	130
1,3-Dichloropropene		--	--	<1	--	<2	--
1,2-Dibromoethane		--	--	--	--	--	--
<b>Total Volatile Organic Compounds</b>		<b>3</b>	<b>9</b>	<b>8</b>	<b>67.4</b>	<b>383</b>	<b>527</b>

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Sources:

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	10/88	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	<6	<2
1,2-Dichloroethane		--	--	--	--	--	--
1,1-Dichloroethylene		<25	3	<8	<7	<10	<25
Benzene		8	17	<3	<3	<3	<3
Chlorobenzene		<3	1	<6	<6	<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	<6	<7	<8	<15
1,3-Dichloropropene		--	--	<1	<2	--	<1
1,2-Dibromoethane		--	--	--	--	--	--
Total Volatile Organic Compounds		94	1169	83	173	237	644

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Source:

RCDE (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	940	520	<1	<1	<1
Tetrachloroethylene		2400	920	1208	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	6	<1	<1	<1
Bromoform		<2	<2	<2	<2	<2	<2
Vinyl chloride		1.8	--	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	<5
Trichlorofluoromethane		<1	<1	2	<1	<1	<1
1,2-Dichloroethylene		260	90	140	<4	<7	<11
1,3-Dichloropropane		<1	<2	--	<1	<2	--
1,2-Dibromoethane		--	--	--	--	--	--
Total Volatile Organic Compounds		4773.8	2018	2278	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	120	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	<28	<20	<12	<20
Ethylbenzene	<3	<10	<6	<4	<3	<10
Toluene	<3	<4	<4	<3	<3	<4
Xylene	<3	<10	<8	<5	<3	<10
Trichlorofluoroethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene	<15	<4	15	<8	<15	<4
1,3-Dichloropropene	--	<1	<2	--	--	<1
1,2-Dibromoethane	--	--	--	--	--	--
<b>Total Volatile Organic Compounds</b>	<b>210</b>	<b>124</b>	<b>340</b>	<b>55</b>	<b>9</b>	<b>1140</b>

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Sources:

SCOE (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	10/88	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		--	--	34	<8	<7
1,1,1-Trichloroethane		<1	<1	<1	<3	3
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		<3	<4	<2	<3	<3
1,2-Dichloroethane		--	--	--	--	--
1,1-Dichloroethylene		10	--	<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	<18	<4
Toluene		<4	<3	<6	<4	<4
Xylenes		<6	<3	<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		--	--	--	--	--
<b>Total Volatile Organic Compounds</b>		<b>831</b>	<b>0</b>	<b>304</b>	<b>838</b>	<b>912</b>

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Sources:

RCDE (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	10/88	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	480	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		<3	<3	<10	<6	<3	<3
Trichlorofluoroethane		<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene		<8	<15	7	<7	8	<15
1,3-Dichloropropane		--	--	<1	<2	--	--
1,2-Dibromoethane		--	--	--	--	--	--
<b>Total Volatile Organic Compounds</b>		<b>831</b>	<b>495</b>	<b>642</b>	<b>470</b>	<b>372</b>	<b>365</b>

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	<6	<2	<5	<6
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	<3	<4	<3
Xylene		<10	<6	<5	<3	<10	<3
Trichlorofluoroethane		<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene		<4	<7	<8	<15	<4	<8
1,3-Dichloropropane		<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  
Crummen 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	<4	<10	<4	<5	<3
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene	<15	<7	<4	<7	<8	<15
1,3-Dichloropropane	--	<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:

SCDE (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	380	280	40	24
Tetrachloroethylene		110	400	350	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	<6	<3	<3	<1	<6
Dichlorobenzene		<20	<20	<20	<12	<1	<20
Ethylbenzene		<10	<4	<4	<4	<1	<10
Toluene		<4	<6	<3	<3	<1	<4
Xylene		<10	<8	<3	<3	<1	<10
Trichlorofluoroethane		2*	<1	<1	<1	<1	<1
1,2-Dichloroethylene		21	44	130	31	18	<4
1,3-Dichloropropene		<1	<1	--	--	--	<1
1,2-Dibromoethane		--	--	--	--	--	--
<b>Total Volatile Organic Compounds</b>		<b>367.4*</b>	<b>1077</b>	<b>1362</b>	<b>716</b>	<b>134</b>	<b>51.8</b>

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Source:

DCM (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	<3	<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		--	--	--	--	--	--
<b>Total Volatile Organic Compounds</b>		<b>125</b>	<b>49</b>	<b>7</b>	<b>173</b>	<b>110</b>	<b>0</b>

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-Dichloropropane		<2	--	--	--	<1	<2
1,2-Dibromomethane		--	--	--	--	--	--
Total Volatile Organic Compounds		0	0	0	634	0	0

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Source:

MCDE (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	190	
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	--	--	67	
Benzene	<3	<3	<3	<3	<3	<1	
Chlorobenzene	<3	<3	<3	<3	<3	<1	
Dichlorobenzene	<20	<25	<20	<20	<12	<1	
Ethylbenzene	<4	<5	<7	<4	<4	<1	
Toluene	<3	<3	<3	3	<3	2	
Xylene	<3	<6	<10	<3	<3	<1	
Trichlorofluoroethane	<1	<1	<1	2	<1	<1	
1,2-Dichloroethylene	<8	137	340	280	190	160	
1,3-Dichloropropane	--	<1	<2	--	--	--	
1,2-Dibromoethane	--	--	--	--	--	--	
<b>Total Volatile Organic Compounds</b>	<b>0</b>	<b>1288.7</b>	<b>2876</b>	<b>2238</b>	<b>1874</b>	<b>1002</b>	

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):	308	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	3	<5	<5	<6	<2
1,2-Dichloroethane		--	--	--	--	--	--
1,1-Dichloroethylene		--	1	--	<7	--	<25
Benzene		<3	<1	<3	<3	<3	<3
Chlorobenzene		<3	<1	<3	<6	<3	<3
Dichlorobenzene		<15	17	<25	<20	<20	<12
Ethylbenzene		<4	<1	<3	<6	<6	<3
Toluene		<3	2	<3	<6	3	<3
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	316	58	53

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Source:

RCDE (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
Trichlorofluoroethane		<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene		<3	<7	<8	<15	<5	<7
1,3-Dichloropropene		<1	<2	--	--	<1	<2
1,2-Dibromoethane		--	--	--	--	--	--
Total Volatile Organic Compounds		61	96	138	126	89	65

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Source:

RCDE (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	11/88	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	380	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	<8	<25	<20	<20	<12
Ethylbenzene		<8	<3	<5	<4	<4	<3
Toluene		<3	<4	<3	<4	<3	<3
Xylene		<9	<4	<6	<6	<3	<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		64	63	391	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:	10633	10633	10633	10636	10636	10636
	Sample Date:	11/86	8/88	10/88	11/86	4/87	6/88
	Well Depth (ft):	43	43	43	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		<3	<4	<2	<3	<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		<3	<4	<3	<3	<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		<3	<8	<6	<3	<3	<8
1,3-Dichloropropene		<1	--	--	<1	<2	<1
1,2-Dibromoethane		--	--	--	--	--	--
<b>Total Volatile Organic Compounds</b>		<b>102</b>	<b>33</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>14</b>

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Sources:

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:	10836	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
<b>Volatile Organic Compounds</b>							
(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	<3	<4	<2	<3	<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	<3	<3	<3
Xylene		<4	<6	<3	<3	<12	<3
Trichlorofluoromethane		<1	<1	<1	<1	<1	<1
1,2-Dichloroethylene		<6	<7	<8	<13	<3	<8
1,3-Dichloropropene		<1	<2	--	--	--	--
1,2-Dibromoethane		--	--	--	--	--	--
<b>Total Volatile Organic Compounds</b>		<b>34</b>	<b>3</b>	<b>8</b>	<b>7</b>	<b>10</b>	<b>10</b>

ug/L Maximum 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:	10813	10814	10814	10814	10815	10815
	Sample Date:	10/88	3/87	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	3	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	3	<4	2	<3	<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	<3	<4	<3
Xylene		<4	<6	<3	<3	<6	<3
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:

RCDE (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	3/87	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	3	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	<4	<4	<3	<4
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	88	100	14	13	11

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Source:

MCDE (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	--	B	<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	<3	<3	<6	<3	<3
Trichlorofluoroethane		<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	69	186	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	<3	<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-Dichloropropane		<2	--	--	--	--	--
1,2-Dibromethane		--	--	--	--	--	--
<b>Total Volatile Organic Compounds</b>		<b>47</b>	<b>12</b>	<b>3</b>	<b>28</b>	<b>290</b>	<b>160</b>

ug/L Micrograms per liter.

\* Laboratory contamination suspected.

-- Not analyzed.

Source:

SCDE (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):	124	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	<3
Xylene		<3	<3	<4	6	<3	<3
Trichlorofluoroethane		<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 examination 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
<b>Parameters</b>								
(concentration in ug/ml unless indicated)								
<b>Inorganic Compounds</b>								
Alkalinity	1.2	1.2	1.7	0.82	4.12	3.3	3.4	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	3.3	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	16.3	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
<b>Parameters</b> (concentration in ug/ml unless indicated)						
<b>Inorganic Compounds</b>						
Alkalinity	2.7	2.5	2.47	3.2	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	85.3	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	3.4	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
Silicon	3.4	3.7	3.1	3.3	3.6	3.9
Sodium	31.3	13.0	3.2	8.6	11.3	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
<b>Parameters</b>								
(concentration in ug/L unless indicated)								
<b>Organic Compounds</b>								
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	3.0	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	28.0	ND	150.0	41.0
Trichloroethylene	14308.0	671.0	86.8	262.8	1478.0	<1.0	146.0	54.0
Trichlorotrifluoroethane	9.0	3.0	6.0	ND	10.0	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	3/23/89	3/14/89	3/20/89	3/22/89	3/14/89
<b>Parameters</b>						
(concentration in ug/L						
unless indicated)						
<b>Organic Compounds</b>						
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
Methyl ethyl 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	3.0
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.

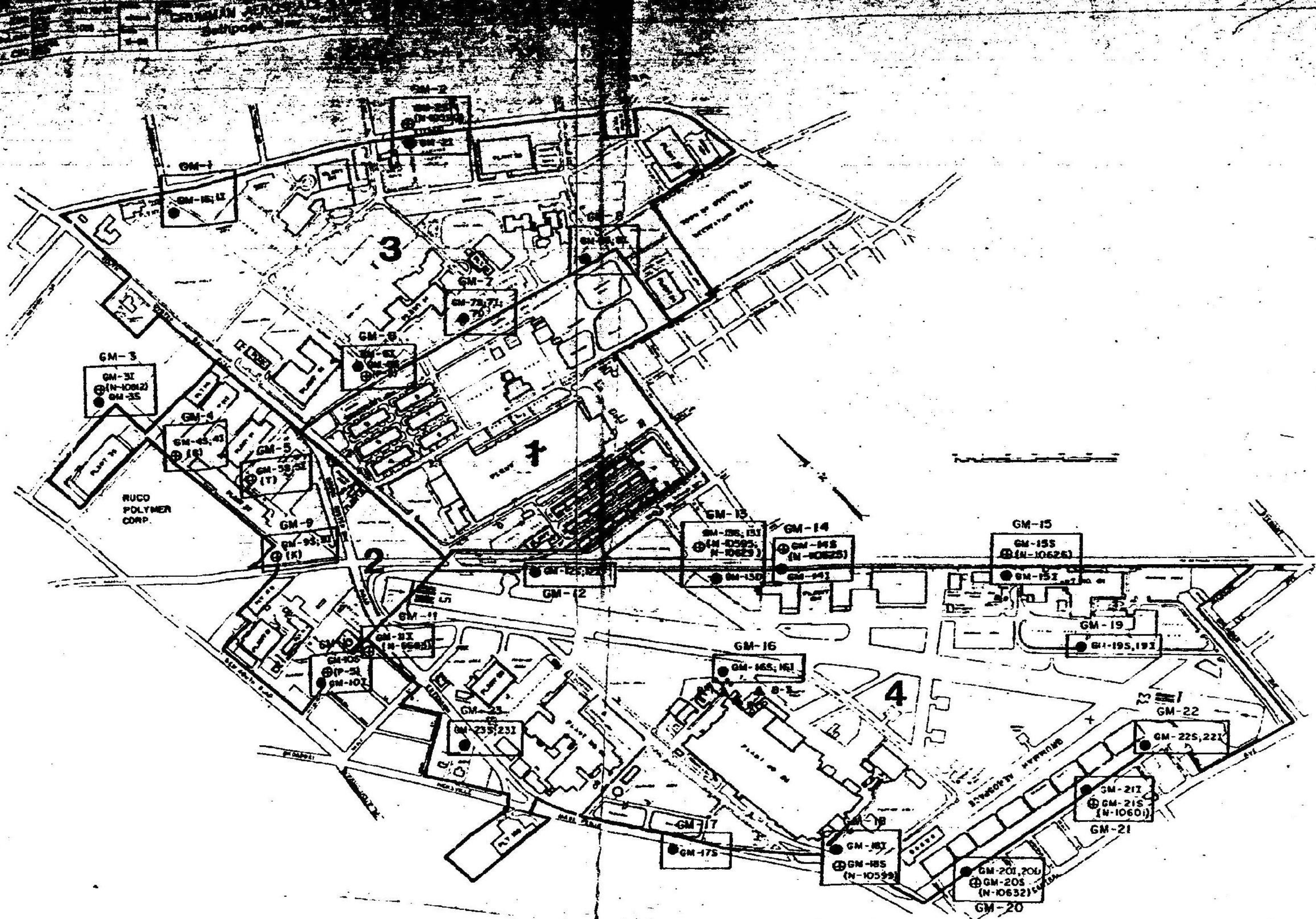
A.4

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

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

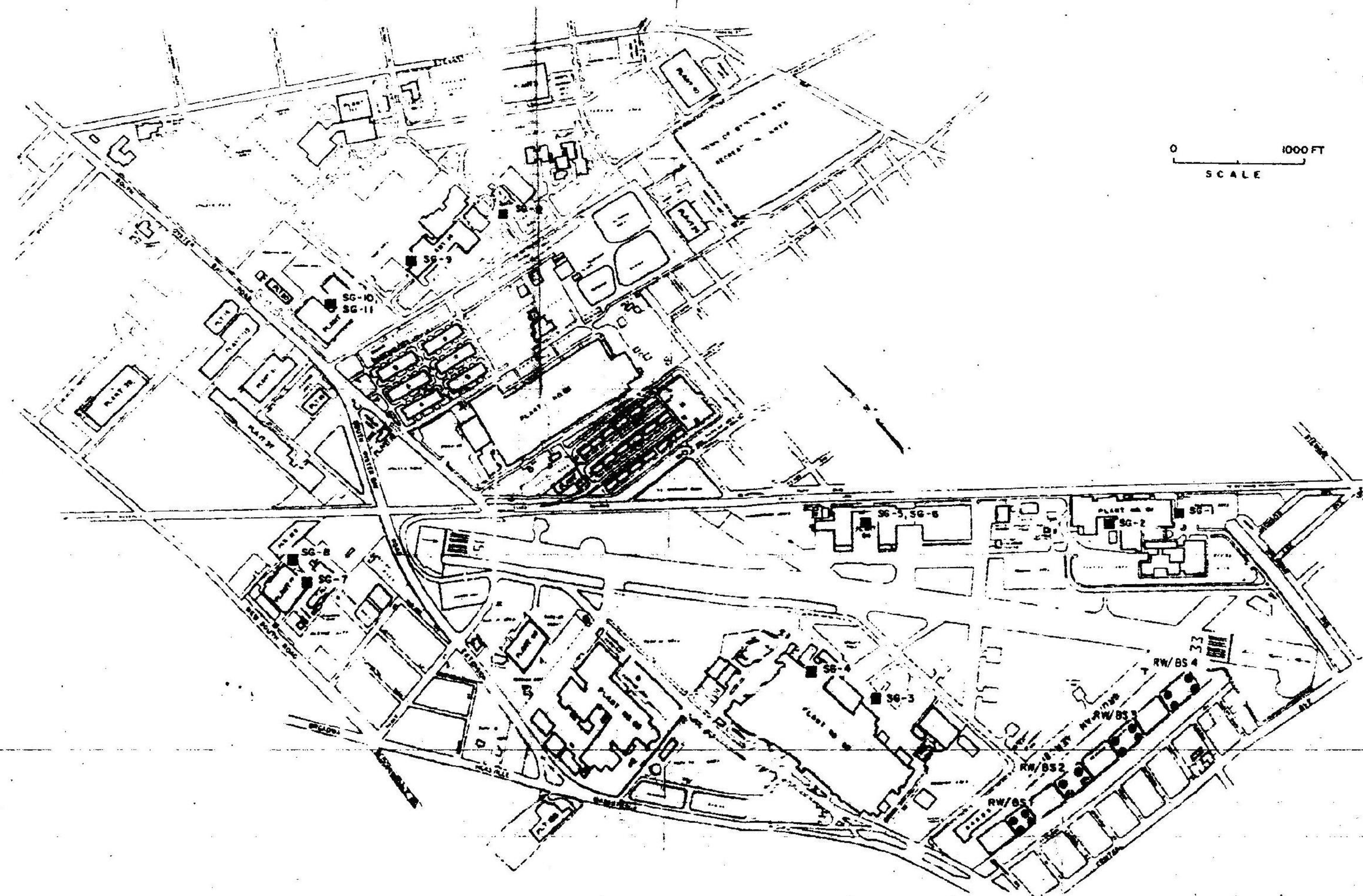




- EXPLANATION**
- GM-25 (N 10590) EXISTING WELL LOCATION AND DESIGNATION
  - GM-15 PROPOSED WELL LOCATION AND DESIGNATION
  - GM-1 PROPOSED WELL CLUSTER LOCATION AND DESIGNATION
  - LOCATION AND DESIGNATION OF SITE AREAS
  - INDICATES EXISTING WELL DESIGNATION
  - B-1 PROPOSED SOIL BORING LOCATION AND DESIGNATION

PROPOSED SOIL BORING AND MONITORING WELL LOCATIONS FIGURE 8

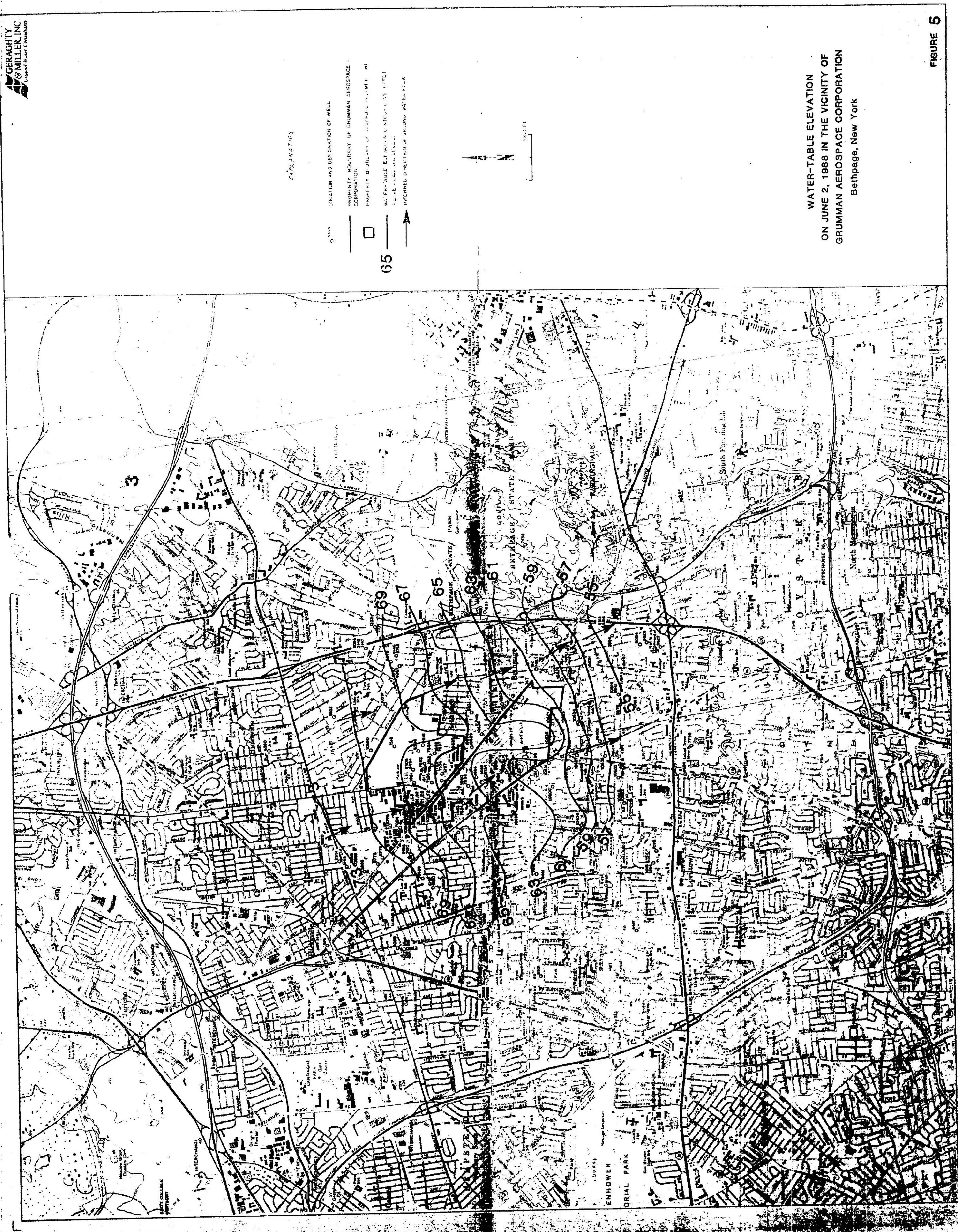
 GERAGHTY & MILLER, INC. Environmental Services	DATE: 11-89	PROJECT: HYDROB	FOR: GRUMMAN AEROSPACE CORP.
	SCALE: 1"=100'	DATE: 1008	LOCATION: Bethpage, New York
BY: E.A.	CHKD: C.S.P.	APP'D: A.B.	BAR SCALE: 0



- 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.

PROPOSED SOIL-GAS SURVEY AND RECHARGE BASIN SAMPLING LOCATIONS FIGURE 7

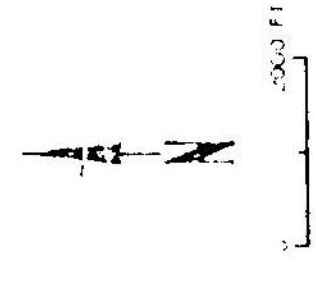




ELEVATIONS

- Well LOCATION AND DESIGNATION OF WELL
- PROPERTY BOUNDARY OF GRUMMAN AEROSPACE CORPORATION
- PROPERTY BOUNDARY OF FEDERAL GOVERNMENT
- WATER-TABLE ELEVATION CONTOUR LINE (FEET) AS MEASURED
- INFERRED DIRECTION OF GROUND-WATER FLOW

65



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

FIGURE 5



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**B**

**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**

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**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	↓	↓ - RINSE 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 RINSE 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 - RINSEATE 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 - RINSEATE BLANK	38
BP-SS-05-TB	08-30-91	SURFACE SOIL - TRIP BLANK	39
BP-SS-3-2200-MS	09-10-91	(MATRIX SPK) SURFACE SOIL FROM SITE #3	40
BP-SS-3-2300	↓	↓	41
BP-SS-3-2400	↓	↓	42
BP-SS-3-2900	↓	↓	43
BP-SS-05-RB	↓	SURFACE SOIL - RINSEATE BLANK	44



- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon/Pond
- Other BLANK

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: <u>SEE NOTES</u> <u>SS-TROWEL (TR)</u>		Composite Sample Data		
Depth Sampled: <u>1-6" TR</u>		Sample	Time	Color/Description
Sample Date & Time: <u>08-30-91</u>				
Sampled By: <u>ORTER/TR</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
Analysis	Taken?	Bottle ID #	Co#C #	Notes
<u>ROUTINE 8</u>				TRIP BLANK PREPARED BY ORTER LAB.
<u>TCL VOLATILES</u>	<u>✓</u>	<u>N/A</u>	<u># 16</u>	
<u>TCL BNA</u>				
<u>TAL METALS</u>				
<u>CYANIDE</u>				
<u>STAINED SOIL 8</u>				
<u>TCL PCBs/PESTICIDES</u>				



SAMPLE LOG SHEET


Page 2 of 44

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By TR

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

Sample Method: <u>SS TROWEL</u>		Composite Sample Data		
Depth Sampled: <u>1-6"</u>		Sample	Time	Color/Description
Sample Date & Time: <u>9/4/91 0820</u>				
Sampled By: <u>TR</u>				
Signature(s): 				
Type of Sample		Sample Data		
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<u>Faint</u>	<u>W/ Gravel; trace organics</u>	
Analysis	Taken?	Bottle ID #	CoC #	Notes
<del>ROUTINE 8</del>	<del></del>	<del></del>	<del></del>	<u>Loc. in SCAAP AREA</u>
<u>TCL VOLATILES</u>	<u>✓</u>	<u>B1084-2</u>	<u>FIG</u>	
<u>TCL BNA</u>	<u>✓</u>	<u>05169106</u>		
<u>TAL METALS</u>	<u>✓</u>			
<u>CYANIDE</u>	<u>✓</u>			
<del>STAINED SOIL 8</del>	<del></del>	<del></del>	<del></del>	
<u>TCL PCBs/PESTICIDES</u>				





SAMPLE LOG SHEET

Page 3 of 44

- 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: <u>SS TROWEL</u>	Composite Sample Data			
	Sample	Time	Color / Description	
Depth Sampled: <u>1-6"</u>				
Sample Date & Time: <u>9/4/91 0840</u>				
Sampled By: <u>TR</u>				
Signature(s): <u>Troy Ngah</u>		<u>N/A</u>		
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input checked="" type="checkbox"/> Grab - Composite	Sample Data			
	Color <u>Brown</u>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>fine some gravel trace organics (roots)</u>		
Analysis	Taken?	Bottle ID #	CoC #	Notes
<del>ROUTINE 8</del>				
TCL VOLATILES	✓	81084-2	#16	
TCL BNA	✓	05169106		
TAL METALS	✓	↓	↓	
CYANIDE	✓			
<del>STAINED SOIL 8</del>				
TCL PCBs/PESTICIDES	✓	05169106	#16	



SAMPLE LOG SHEET

Page 9 of 44

- 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

Sample Method: <u>SS TROWEL</u>		Composite Sample Data		
Depth Sampled: <u>1-6"</u>	Sample	Time	Color / Description	
Sample Date & Time: <u>09-04-91 0930</u>				
Sampled By: <u>TR</u>				
Signature(s): <i>[Signature]</i>			<u>N/A</u>	
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<u>Dark Grey</u>	<u>Fine Abundant gravel</u>	
Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE 3</u>	<u>✓</u>	<u>B1044-2</u>	<u>#16</u>	<u>Resembles Fill</u> <u>IN LAY down AREA</u> <u>Pipes, manhole lids, etc.</u> <u>WEST OF CONCRETE PAD</u>
<u>TCL VOLATILES</u>	<u>✓</u>	<u>05169106</u>		
<u>TCL BNA</u>	<u>✓</u>			
<u>TAL METALS</u>	<u>✓</u>			
<u>CYANIDE</u>	<u>✓</u>			
<u>STAINED SOIL ?</u>				
<u>TCL PCBs / PESTICIDES</u>				



SAMPLE LOG SHEET

Page 5 of 49

- 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+0300-D Source Location Site-1

Sample Method:	Composite Sample Data			
<u>SS TROWEL</u>	Sample	Time	Color / Description	
Depth Sampled: <u>1-6"</u>			/	
Sample Date & Time: <u>07-04-91 0930</u>				
Sampled By: <u>TK</u>				
Signature(s): <i>TK</i>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
<b>Sample Data</b>				
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)		
	<u>Dark Grey</u>	<u>Abundant Gravel</u>		
Analysis	Taken?	Bottle ID #	Co/C #	Notes
<u>ROUTINE S</u>				DUA FOR VOLATILES ONLY
<u>TCL VOLATILES</u>	✓	<u>B1084-2</u>	<u>#16</u>	
<u>TCL BNA</u>				
<u>TAL METALS</u>				
<u>CYANIDE</u>				
<u>STAINED SOIL S</u>				
<u>TCL PCBs / PESTICIDES</u>				



SAMPLE LOG SHEET

Page 6 of 44  
 Case #             
 By TK

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SS-1-0400 Source Location Site - 1

Sample Method: <u>SS TROWEL</u>	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: <u>1-6"</u>			
Sample Date & Time: <u>09-04-91 0955</u>			
Sampled By: <u>TK</u>			
Signature(s): <i>[Signature]</i>			
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite	Sample Data		
	Color <u>BROWN →</u>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>Light Grey DAMP</u>	

Analysis	Taken?	Bottle ID #	Co/C #	Notes
<del>ROUTINE S</del>	<del>          </del>	<del>          </del>	<del>          </del>	
TCL VOLATILES	✓	B1084-2	#16	NE OF concrete next to Asphalt & concrete debris piles. NEAR dike/bank  Resembles fill
TCL BNA	✓	05169106		
TAL METALS	✓	↓	↓	
CYANIDE	✓			
<del>STAINED SOIL S</del>	<del>          </del>	<del>          </del>	<del>          </del>	
TCL PCBs / PESTICIDES				



SAMPLE LOG

Page 7 of 44

- 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-1-0500

Source Location Site-1

Sample Method:	Composite Sample Data			
<u>SS TROWEL</u>	Sample	Time	Color / Description	
Depth Sampled: <u>1-6"</u>				
Sample Date & Time: <u>07-04-71 145</u>				
Sampled By: <u>TR</u>				
Signature(s): 				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite	<b>Sample Data</b>			
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)		
	<u>Light grey</u>	<u>to tan</u> <u>Abundant gravel (Damp)</u>		
Analysis	Taken?	Bottle ID #	Co/C #	Notes
<del>ROUTINE S</del>				
TCL VOLATILES	✓	B1084-2	#16	NEAR N BANK/DKE in Dumpster Area. Resembles F11
TCL BNA	✓	U5169106		
TAL METALS	✓			
CYANIDE	✓			
<del>STAINED SOIL S</del>				
TCL PCBs/PESTICIDES				



SAMPLE LOG SHEET

Page 8 of 44

- 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-1-0600 Source Location Site 1

Sample Method: <u>SS TROWEL</u>	Composite Sample Data			
	Sample	Time	Color / Description	
Depth Sampled: <u>1-6"</u>				
Sample Date & Time: <u>09-09-91 1030</u>				
Sampled By: <u>TK</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite	Sample Data			
	Color	Description: <u>(Sand, Clay, Dry, Moist, Wet, etc.)</u> <u>Dry</u> <u>Grey Abundant gravel</u>		
Analysis	Taken?	Bottle ID #	CoC #	Notes
<del>ROUTINE S</del>	<del>✓</del>	<del>B1084-2</del>	<del>#16</del>	Resembles Fill
TCL VOLATILES	✓	B1084-2	#16	
TCL BNA	✓	65169106		
TAL METALS	✓			
CYANIDE	✓			
<del>STAINED SOIL S</del>	<del>✓</del>	<del></del>	<del></del>	
TCL PCBs / PESTICIDES				

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other

Page 9 of 44

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:		Composite Sample Data		
<u>SS TROWEL</u>		Sample	Time	Color / Description
Depth Sampled: <u>1-6"</u>				
Sample Date & Time: <u>09-09-91 1100</u>				
Sampled By: <u>TR</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	Resembles
		<u>Brn → Grey</u>	<u>Abundant Gravel</u>	<u>K.11</u>
Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE 3</u>	<del>✓</del>	<del>          </del>	<del>          </del>	<u>Taken West side of concrete pad next to transformer w/ PCB label.</u>
<u>TCL VOLATILES</u>	<u>✓</u>	<u>B1084-2</u>		
<u>TCL BNA</u>	<u>✓</u>	<u>0516106</u>		
<u>TAL METALS</u>	<u>✓</u>			
<u>CYANIDE</u>	<u>✓</u>			
<u>STAINED SOIL 3</u>	<del>✓</del>	<del>          </del>	<del>          </del>	
<u>TCL PCBs/PESTICIDES</u>	<u>✓</u>	<u>          </u>		

- 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-01-FB Source Location FIELD BLANK

Sample Method: <u>SEE NOTES</u> <u>SS TRAWEL (TR)</u>		Composite Sample Data		
Depth Sampled:	Sample	Time	Color / Description	
<u>1-6" (TR)</u>			N/A	
Sample Date & Time: <u>09/04/91 1415</u>				
Sampled By: <u>TR</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	

Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE S</u>				Steam Distilled H <sub>2</sub> O poured Directly into sample bottles.
<u>TCL VOLATILES</u>	✓	<u>B 1087-2</u>	# 16	
<u>TCL BNA</u>	✓	N/A	↓	
<u>TAL METALS</u>	✓	↓	↓	
<u>CYANIDE</u>	✓	↓	↓	
<u>STAINED SOIL S</u>				Lot # 13091 FROM ELECTRIC WATER CO.
<u>TCL PCBs/PESTICIDES</u>	✓	N/A	# 16	





SAMPLE LOG SHEET

Page 11 of 44

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other Rinse Blank

Case #                     

By TR

Project Site Name NWIRP BETHPAGE

Project Site Number 3281

NUS Source No. BP-SS-01-RB

Source Location Rinse Blank

Sample Method: <u>Steam Distilled</u> <u>1/2 cup poured over a</u> <u>SS Trowel</u>	Composite Sample Data		
	Sample	Time	Color/Description
Depth Sampled: <u>1-6" (TR)</u>			
Sample Date & Time: <u>09/04/91 1425</u>			
Sampled By: <u>TR</u>			
Signature(s): <u>[Signature]</u>			
Type of Sample			
<input checked="" type="checkbox"/> Low Concentration			
<input type="checkbox"/> High Concentration			
<input checked="" type="checkbox"/> Grab			
<input type="checkbox"/> Composite			
<input type="checkbox"/> Grab - Composite			
	Sample Data		
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	

Analysis	Taken?	Bottle ID #	CoC #	Notes
<del>ROUTINE 8</del>				
TCL VOLATILES	✓	B1084-2	#16	STEAM Distilled H <sub>2</sub> O Lot # 13091 ELECTRIFIED WATER CO.
TCL BNA	✓	N/A		
TAL METALS	✓			
CYANIDE	✓			
<del>STAINED SOIL 8</del>				
TCL PCBs/PESTICIDES	✓	HA	#16	

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other TRIP BLANK

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SS-02-TB Source Location TRIP BLANK

Sample Method: <i>Prep. by ORTEK</i> <i>SS Trowe (TR)</i>		Composite Sample Data					
Depth Sampled: <i>1-6" (TR)</i>		Sample	Time	Color / Description			
Sample Date & Time: <i>08-29-91</i>		<i>TR</i>					
Sampled By: <i>ortek/TR</i>							
Signature(s): <i>TR</i>							
Type of Sample							
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite							
					Sample Data		
					Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
Analysis	Taken?				Bottle ID #	CofC #	Notes
<del>ROUTINE S</del>	<del>        </del>	<del>        </del>	<del>        </del>				
TCL VOLATILES	✓	N/A	# 17				
TCL BNA							
TAL METALS							
CYANIDE							
<del>STAINED SOIL S</del>	<del>        </del>	<del>        </del>	<del>        </del>				
TCL PCBs/PESTICIDES							



SAMPLE LUG SHEET

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- 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-2-0700 Source Location Site-2

Sample Method:		Composite Sample Data		
<u>SS TROWEL</u>		Sample	Time	Color / Description
Depth Sampled: <u>1-6"</u>				
Sample Date & Time: <u>9/5/91 0845</u>				
Sampled By: <u>TR</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<u>TAN</u>	<u>DAMP Abundant GRAVEL; ORGANICS</u>	
Analysis	Taken?	Bottle ID #	CoC #	Notes <small>(Rocks)</small>
<u>ROUTINE 3</u>				<u>Adjacent to boring C cemetery.</u>
<u>TCL VOLATILES</u>	<u>✓</u>	<u>B1089-2</u>	<u>#17</u>	
<u>TCL BNA</u>	<u>✓</u>	<u>05029110</u>		
<u>TAL METALS</u>	<u>✓</u>	<u>↓</u>	<u>↓</u>	
<u>CYANIDE</u>	<u>✓</u>			
<u>STAINED SOIL 3</u>				
<u>TCL PCBs / PESTICIDES</u>				

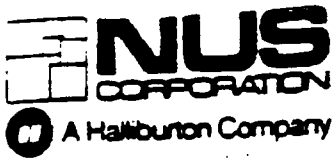
- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By TK

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SS-2-0800 Source Location Site-2

Sample Method:	Composite Sample Data			
<u>SS TROWEL</u>	Sample	Time	Color / Description	
Depth Sampled: <u>1-6"</u>			/	
Sample Date & Time: <u>9/5/91 0905</u>				
Sampled By: <u>TK</u>				
Signature(s): 				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
<b>Sample Data</b>				
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)		
	<u>Tan to Brown</u>	<u>Coarse Sand Abundant GRAVEL</u>		
Analysis	Taken?	Bottle ID #	Co/C #	Notes
<del>ROUTINE S</del>	<del>✓</del>	<del>81084-2</del>	<del>II 17</del>	SE CORNER OF THE WEST END MOST BASIN.
TCL VOLATILES	✓	81084-2	II 17	
TCL BNA	✓	05029110		
TAL METALS	✓			
CYANIDE	✓			
<del>STAINED SOIL S</del>	<del>✓</del>	<del>81084-2</del>	<del>II 17</del>	
TCL PCBs/PESTICIDES				



SAMPLE LOG SHEET

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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-SS-02-RB

Source Location Rinsate Blank

Sample Method: <u>SEE NOTES</u> <u>SS FROM WET (TR)</u>	Composite Sample Data		
	Sample	Time	Color/Description
Depth Sampled: <u>1-6" (TR)</u>			
Sample Date & Time: <u>09-05-91 1100</u>			
Sampled By: <u>TR</u>			
Signature(s): <u>[Signature]</u>			
Type of Sample			
<input checked="" type="checkbox"/> Low Concentration			
<input type="checkbox"/> High Concentration			
<input checked="" type="checkbox"/> Grab			
<input type="checkbox"/> Composite			
<input type="checkbox"/> Grab - Composite			
	Sample Data		
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	

Analysis	Taken?	Bottle ID #	Co/C #	Notes
<del>ROUTINE 8</del>				
TCL VOLATILES	✓	B1084-2	IT 17	Hold! ANALYSES ONLY IF RINSATE PROBLEMS ARE DETECTED.
TCL BNA	✓	N/A		
TAL METALS	✓	↓		
CYANIDE	✓	↓		
<del>STAINED SOIL 8</del>				
TCL PCBs/PESTICIDES				Stann Dist. (K) WATER Lot # 13091 FROM ELECTRIFIED WATER CO. HAS Poured OVER SSTRAWEL.

- 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-2-0900 Source Location Site - 2

Sample Method:		Composite Sample Data		
<u>SS TROWEL</u>		Sample	Time	Color / Description
Depth Sampled: <u>1-6"</u>				
Sample Date & Time: <u>09/05/91 1200</u>				
Sampled By: <u>[Signature] TR</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color:	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<u>TAN-BROWN</u>	<u>COARSE SAND; ABUNDANT GRAUC! DAMP</u>	
Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE S</u>	<input checked="" type="checkbox"/>	<u>B1084-2</u>	<u>#17</u>	<u>SOUTH OF SE BASIN ADJACENT TO BORING HOLE</u>
<u>TCL VOLATILES</u>	<input checked="" type="checkbox"/>	<u>0502911U</u>		
<u>TCL BNA</u>	<input checked="" type="checkbox"/>			
<u>TAL METALS</u>	<input checked="" type="checkbox"/>			
<u>CYANIDE</u>	<input checked="" type="checkbox"/>			
<u>STAINED SOIL</u>	<input type="checkbox"/>			
<u>TCL PCBs / PESTICIDES</u>	<input type="checkbox"/>			



DAMAGE LOG SHEET

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- 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-2-1000 Source Location site-2

Sample Method: <u>SS TROWEL</u>	Composite Sample Data								
	Sample	Time	Color / Description						
Depth Sampled: <u>1-6"</u>									
Sample Date & Time: <u>9/5/91 1215</u>									
Sampled By: <u>TR</u>	<u>N/A</u>								
Signature(s): <u>[Signature]</u>									
Type of Sample	Sample Data								
<input checked="" type="checkbox"/> Low Concentration	<table border="1"> <tr> <td>Color</td> <td colspan="2">Description: (Sand, Clay, Dry, Moist, Wet, etc.)</td> </tr> <tr> <td><u>Brown</u></td> <td colspan="2"><u>Resembles Fill Abundant organics (roots)</u></td> </tr> </table>			Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)		<u>Brown</u>	<u>Resembles Fill Abundant organics (roots)</u>	
Color				Description: (Sand, Clay, Dry, Moist, Wet, etc.)					
<u>Brown</u>				<u>Resembles Fill Abundant organics (roots)</u>					
<input type="checkbox"/> High Concentration									
<input checked="" type="checkbox"/> Grab									
<input type="checkbox"/> Composite									
<input type="checkbox"/> Grab - Composite									

Analysis	Taken?	Bottle ID #	Co/C #	Notes
<del>ROUTINE S</del>				SE corner of site 2 adjacent to soil being
TCL VOLATILES	✓	B1084-2	#17	
TCL BNA	✓	05023110		
TAL METALS	✓	↓	↓	
CYANIDE	✓			
<del>STAINED SOIL &amp;</del>				
TCL PCBs / PESTICIDES				



SAMPLE LOG SHEET

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- 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-2-1000-D Source Location Site-2

Sample Method: <u>SS TROWEL</u>	Composite Sample Data			
Depth Sampled: <u>1-6"</u>	Sample	Time	Color / Description	
Sample Date & Time: <u>9/5/91 12:15</u>	<i>N/A</i>			
Sampled By: <u>TR</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
Sample Data				
Color <u>Brown</u>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>Resembles Fill Abundant ORGANICS (Roots)</u>			
Analysis	Taken?	Bottle ID #	Co/C #	Notes
<del>ROUTINE 8</del>	<del>✓</del>	<del>B1004-2</del>	<del>#17</del>	SE CORNER OF Site-2
TCL VOLATILES	✓	B1004-2	#17	
TCL BNA	✓	05029110	↓	
TAL METALS	✓	↓	↓	
CYANIDE	✓	↓	↓	
<del>STAINED SOIL 8</del>	<del>✓</del>	<del>_____</del>	<del>_____</del>	
TCL PCBs/PESTICIDES				





SAMPLE LOG SHEET

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- 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:	Composite Sample Data			
<u>SS TROWEL</u>	Sample	Time	Color / Description	
Depth Sampled: <u>1-6"</u>			/	
Sample Date & Time: <u>9/5/91 1240</u>				
Sampled By: <u>TR</u>				
Signature(s): <i>[Signature]</i>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
<b>Sample Data</b>				
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)		
	<u>TAN</u>	<u>Abundant Gravel; Trace Organics</u>		
Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE 8</u>				Collected between ON site (site-2) concrete block Bldg. & waste treatment plant west of block bldg. E South of Fill stock pile AREA.
<u>TCL VOLATILES</u>	✓	<u>B1094-2</u>	<u>#17</u>	
<u>TCL BNA</u>	✓	<u>05029110</u>		
<u>TAL METALS</u>	✓	↓	↓	
<u>CYANIDE</u>	✓	↓	↓	
<u>STAINED SOIL 8</u>				
<u>TCL PCBs/PESTICIDES</u>				



SAMPLE LOG SHEET

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

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 Case # \_\_\_\_\_  
 By JL

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

Sample Method: <u>SS TROWEL</u>	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: <u>1-6"</u>			
Sample Date & Time: <u>7/5/91 1300 hrs</u>			
Sampled By: <u>JL</u>			
Signature(s): <u>[Signature]</u>			
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite			
<b>Sample Data</b>			
	Color <u>Brown</u>	Description: <u>(Sand, Clay, Dry, Moist, Wet, etc.)</u> <u>Resembles Fill Abundant Gravel</u>	

Analysis	Taken?	Bottle ID #	CoC #	Notes
<del>ROUTINE 8</del>	<del>✓</del>	<del>B1084-2</del>	<del>#17</del>	North of Site Dike Bldg Approx ~20' distance with dike road (E-W) between NE & SE BASINS & just west of main haul road that traverses the site running N & S.
TCL VOLATILES	✓	B1084-2	#17	
TCL BNA	✓	N/A		
TAL METALS	✓	↓	↓	
CYANIDE	✓			
<del>STAINED SOIL 8</del>	<del>✓</del>	<del></del>	<del></del>	
TCL PCBs / PESTICIDES				



SAMPLE LOG SHEET

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- 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-2-1300 Source Location Site - 2

Sample Method: <u>S.S TROWEL</u>	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: <u>1-6"</u>			<i>N/A</i>
Sample Date & Time: <u>9/5/91 1315 hrs</u>			
Sampled By: <u>TR</u>			
Signature(s): <i>[Signature]</i>			
Type of Sample			
<input checked="" type="checkbox"/> Low Concentration			
<input type="checkbox"/> High Concentration			
<input checked="" type="checkbox"/> Grab			
<input type="checkbox"/> Composite			
<input type="checkbox"/> Grab - Composite			
Sample Data			
Color		Description (Sand, Clay, Dry, Moist, Wet, etc.)	
<u>TAN-BROWN</u>		<u>DRY → moist abundant gravel</u> <span style="float: right;"><u>TRACE ORGANICS</u></span>	

Analysis	Taken?	Bottle ID #	C of C #	Notes
<u>ROUTINE S</u>				
<u>TCL VOLATILES</u>	<input checked="" type="checkbox"/>	<u>B1054-2</u>	<u># 17</u>	
<u>TCL BNA</u>	<input checked="" type="checkbox"/>	<u>N/A</u>		
<u>TAL METALS</u>	<input checked="" type="checkbox"/>			
<u>CYANIDE</u>	<input checked="" type="checkbox"/>			
<u>STAINED SOIL S</u>				
<u>TCL PCBs / PESTICIDES</u>				



SAMPLE LOG SHEET

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- 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:	Composite Sample Data			
S.S TROWEL	Sample	Time	Color / Description	
Depth Sampled: 1-6"			/	
Sample Date & Time: 9/5/91 1330				
Sampled By: TR				
Signature(s): <i>[Signature]</i>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
Sample Data				
	Color Brn	Description: (Sand, Clay, Dry, Moist, Wet, etc.) Dry → moist	(Credits) Abundant gravel; Organics	
Analysis	Taken?	Bottle ID #	Co/C #	Notes
<del>ROUTINE 3</del>				IN LINE WITH DIKE ROAD EAST SIDE OF BASINS.
TCL VOLATILES	✓	B1004-L	#17	
TCL BNA	✓	N/A		
TAL METALS	✓			
CYANIDE	✓			
<del>STAINED SOIL 3</del>				
TCL PCBs / PESTICIDES				



SAMPLE LOG SHEET

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- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other TRP BLANK

Case #           

By TR

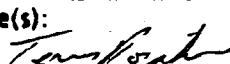
Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SS-03-TB Source Location TRP BLANK

Sample Method: <u>SEE NOTES</u> <u>SS FROWEL (TR)</u>	Composite Sample Data		
Depth Sampled: <u>1-6" (TR)</u>	Sample	Time	Color / Description
Sample Date & Time: <u>8-30-91</u>			
Sampled By: <u>ORTEK / TR</u>			
Signature(s): <i>[Signature]</i>			
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite			
	Sample Data		
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	

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

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SS-2-1500 Source Location Site-2

Sample Method:	Composite Sample Data			
<u>SS TROWEL</u>	Sample	Time	Color / Description	
Depth Sampled: <u>1-6"</u>			/	
Sample Date & Time: <u>9/6/91 0750</u>				
Sampled By: <u>TK</u>				
Signature(s): 		<u>N/A</u>		
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite	Sample Data			
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)		
	<u>Brown</u>	<u>Resembles fill - silt damp → Dry Abundant gravel; organics</u>		
Analysis	Taken?	Bottle ID #	CoC #	Notes <u>NW CORNER OF SITE-2; Adjacent to soil PILES.</u>
<u>ROUTINE S</u>				
<u>TCL VOLATILES</u>	<input checked="" type="checkbox"/>	<u>B1089-2</u>	<u>#18</u>	
<u>TCL BNA</u>	<input checked="" type="checkbox"/>	<u>05169106</u>		
<u>TAL METALS</u>	<input checked="" type="checkbox"/>			
<u>CYANIDE</u>	<input checked="" type="checkbox"/>			
<u>STAINED SOIL S</u>				
<u>TCL PCBs / PESTICIDES</u>				



SAMPLE LOG SHEET

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- 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 Site-2

Sample Method: <u>SS TROWEL</u>	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: <u>1-6"</u>			
Sample Date & Time: <u>9/6/91 0815</u>			
Sampled By: <u>TK</u>			
Signature(s): <u>[Signature]</u>			
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite	Sample Data		
	Color <u>TAN</u>	Description: ( <u>Sand, Clay, Dry, Moist, Wet, etc.</u> ) <u>Dry-Damp Abundant + Gravel</u>	

Analysis	Taken?	Bottle ID #	Co/C #	Notes
<del>ROUTINE 8</del>	<del>✓</del>	<del>B1084-2</del>	<del>218</del>	NE CORNER OF Soil Stock pile AREA.  Stock pile area also contains stock piles of mulch, gravel cut grass, woody debris, etc
TCL VOLATILES	✓	B1084-2	218	
TCL BNA	✓	05/69/06	↓	
TAL METALS	✓	↓	↓	
CYANIDE	✓	↓	↓	
STAINED SOIL 8				
TCL PCBs/PESTICIDES				



SAMPLE LOG SHEET

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- 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:		Composite Sample Data		
<u>SS TROWEL</u>		Sample	Time	Color / Description
Depth Sampled: <u>1-6"</u>				<i>N/A</i>
Sample Date & Time: <u>9/6/91 0840</u>				
Sampled By: <u>TR</u>				
Signature(s): <i>TR</i>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand/Clay, Dry, Moist, Wet, etc.)	
		<u>TAN</u>	<u>Abundant Larvae / Organics (roots)</u>	
Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE 3</u>	<u>✓</u>	<u>151294-2</u>	<u>#18</u>	<u>Just North of the North East Basin.</u>
<u>TCL VOLATILES</u>	<u>✓</u>	<u>05169106</u>		
<u>TCL BNA</u>	<u>✓</u>			
<u>TAL METALS</u>	<u>✓</u>			
<u>CYANIDE</u>	<u>✓</u>			
<u>STAINED SOIL 3</u>				
<u>TCL PCBs / PESTICIDES</u>				





SAMPLE LOG SHEET


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- 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: <u>SS TROWEL</u>	Composite Sample Data		
	Sample	Time	Color/Description
Depth Sampled: <u>1-6"</u>			
Sample Date & Time: <u>9/6/91 0855</u>			
Sampled By: <u>TR</u>		<u>N/A</u>	
Signature(s): 			
Type of Sample			
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite			
	Sample Data		
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
	<u>TAN</u>	<u>Abundant GRAIN &amp; ORGANICS</u>	

Analysis	Taken?	Bottle ID #	CoC #	Notes
<del>ROUTINE 3</del>	<del>✓</del>	<del>B1084-2</del>	<del>#18</del>	<u>NE CORNER OF SITE-2</u>
<u>TCL VOLATILES</u>	<u>✓</u>	<u>B1084-2</u>	<u>#18</u>	
<u>TCL BNA</u>	<u>✓</u>	<u>05169106</u>		
<u>TAL METALS</u>	<u>✓</u>	↓	↓	
<u>CYANIDE</u>	<u>✓</u>	↓	↓	
<del>STAINED SOIL 2</del>	<del>✓</del>	<del>...</del>	<del>...</del>	
<u>TCL PCBs/PESTICIDES</u>				



- 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-2-2600 Source Location Site 2

Sample Method:	Composite Sample Data			
<u>SS TROWEL</u>	Sample	Time	Color / Description	
Depth Sampled: <u>1-6"</u>			/	
Sample Date & Time: <u>9/6/91</u> <u>0910</u>				
Sampled By: <u>TK</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
<b>Sample Data</b>				
	Color <u>BRN</u>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>Resembling Fill (Silt/Sand) Abundant Gravel</u>		
Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE S</u>				<u>Center of Stock Pile PROP; Formerly Drying Bed AREA.</u>
<u>TCL VOLATILES</u>	✓	<u>B1084-2</u>	# 18	
<u>TCL BNA</u>	✓	<u>05169106</u>	↓	
<u>TAL METALS</u>	✓	↓	↓	
<u>CYANIDE</u>	✓	↓	↓	
<u>STAINED SOIL S</u>				
<u>TCL PCBs/PESTICIDES</u>	✓	↓	↓	



SAMPLE LOG SHEET

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- 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-2-2000-D Source Location Site - 2

Sample Method: <u>SS TROWEL</u>	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: <u>1-6"</u>			
Sample Date & Time: <u>9/6/91 0910</u>			
Sampled By: <u>TR</u>			
Signature(s): <u>[Signature]</u>			
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite	Sample Data		
	Color <u>BRN</u>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>Resembles Fill (Silt/Sand) Dry Abundant Gravel.</u>	

Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE S</u>				<u>Center of Stock pile AREA; Formerly DRYING BED PREP.</u>
<u>TCL VOLATILES</u>	<u>✓</u>	<u>B10E4-2</u>	<u># 18</u>	
<u>TCL BNA</u>	<u>✓</u>	<u>05169/06</u>		
<u>TAL METALS</u>	<u>✓</u>			
<u>CYANIDE</u>	<u>✓</u>			
<u>STAINED SOIL %</u>				
<u>TCL PCBs/PESTICIDES</u>	<u>✓</u>			

- 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-SS-03-RB

Source Location RINSATE BLANK

Sample Method: <u>Steam Distilled</u> <u>SS TROWEL</u> <small>pumped over SS. trowel</small>		Composite Sample Data		
Depth Sampled: <u>1-6" (TR)</u>		Sample	Time	Color / Description
Sample Date & Time: <u>03-06-91 1200</u>				
Sampled By: <u>TR</u>				
Signature(s): 				
Type of Sample		N/A		
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
Analysis	Taken?	Bottle ID #	CoC #	Notes
<del>ROUTINE 3</del>	<del>✓</del>	<del>81009-2</del>	<del>#18</del>	STEAM Distilled H <sub>2</sub> O Lot # 13091 FROM ELECTRICAL WATER CO.
TCL VOLATILES	✓	B1009-2	#18	
TCL BNA	✓	N/A	↓	
TAL METALS	✓	↓	↓	
CYANIDE	✓	↓	↓	
<del>STAINED SOIL 3</del>	<del>✓</del>	<del></del>	<del></del>	
TCL PCBs / PESTICIDES				

- 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-SS-04-TB Source Location TRIP BLANK

Sample Method: <u>SEE NOTES</u> <u>SS TROWEL (TR)</u>	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: <u>1-6" (TR)</u>			
Sample Date & Time: <u>8/30/91</u>			
Sampled By: <u>ORTOK / TR</u>			
Signature(s): <u>[Signature]</u>			
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite	Sample Data		
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	

Analysis	Taken?	Bottle ID #	CoC #	Notes
<del>ROUTINE 3</del>	<del>✓</del>	<del>---</del>	<del>---</del>	ORTOK LAB PREPARED TRIP BLANK
TCL VOLATILES	✓	---	#17	
TCL BNA				
TAL METALS				
CYANIDE				
<del>STAINED SOIL 3</del>	<del>---</del>	<del>---</del>	<del>---</del>	
TCL PCBs / PESTICIDES				

- 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-3-190d

Source Location Site 3

Sample Method:		Composite Sample Data		
<u>SS TROWEL</u>		Sample	Time	Color/Description
Depth Sampled: <u>1-6"</u>				
Sample Date & Time: <u>9/9/91 1230hrs</u>				
Sampled By: <u>TR</u>				
Signature(s): <i>[Signature]</i>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration		<u>N/A</u>		
<input type="checkbox"/> High Concentration				
<input checked="" type="checkbox"/> Grab				
<input type="checkbox"/> Composite				
<input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<u>Ben</u>	<u>Resembles Fill (Silt/Sand) abundant dusts</u>	
Analysis	Taken?	Bottle ID #	Co#C #	Notes
<u>ROUTINE S</u>				<u>SE corner of parking lot in grassy strip.</u>
<u>TCL VOLATILES</u>	<input checked="" type="checkbox"/>	<u>81084-2</u>	<u>#19</u>	
<u>TCL BNA</u>	<input checked="" type="checkbox"/>	<u>0501910</u>		
<u>TAL METALS</u>	<input checked="" type="checkbox"/>	↓	↓	
<u>CYANIDE</u>	<input checked="" type="checkbox"/>	↓	↓	
<u>STAINED SOIL S</u>				
<u>TCL PCBs/PESTICIDES</u>				

- 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:		Composite Sample Data		
Depth Sampled:		Sample	Time	Color / Description
SS TROWEL				
1-6"				
Sample Date & Time:				
9/9/91 1300 hrs				
Sampled By:				
TK				
Signature(s):				
<i>TK</i>				
Type of Sample		Sample Data		
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		Brd	<i>Resembles fill - silt/sand Abundant Gravel</i>	
Analysis	Taken?	Bottle ID #	Co/C #	Notes
<del>ROUTINE S</del>				<del></del>
TCL VOLATILES	✓	B084-2	#19	<i>SW CORNER OF          P-CISAT          SALVAGE YARD</i>
TCL BNA	✓	05019110		
TAL METALS	✓	↓	↓	
CYANIDE	✓	↓	↓	
<del>STAINED SOIL S</del>				
TCL PCBs / PESTICIDES				


- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Project Site Name NWIRP BETHPAGE

Project Site Number 3281

NUS Source No. BP-SS-3-2100

Source Location Site - 3

Sample Method:	Composite Sample Data			
<u>SS TROWEL</u>	Sample	Time	Color / Description	
Depth Sampled: <u>1-6"</u>			/	
Sample Date & Time: <u>9/9/91 1330 hrs</u>				
Sampled By: <u>TR</u>				
Signature(s): 				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
<b>Sample Data</b>				
	Color <u>Brd</u>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>Resembles Fill (with Sand) Abundant Gravel</u>		
Analysis	Taken?	Bottle ID #	CoC #	Notes
<del>ROUTINE 3</del>	<del></del>	<del></del>	<del></del>	SE CORNER OF Salvage yard with GRAVEL CONC.
TCL VOLATILES	✓	B/09A-2	#19	
TCL BNA	✓	05019110		
TAL METALS CYANIDE	✓	↓	↓	
<del>STAINED SOIL 3</del>	<del></del>	<del></del>	<del></del>	
TCL PCBs / PESTICIDES				





- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By TR

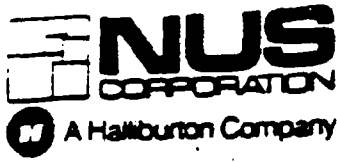
Project Site Name NWIRP BETHPAGE

Project Site Number 3281

NUS Source No. BP-SS-3-2700

Source Location Site-3

Sample Method:		Composite Sample Data		
<u>SS TROWEL</u>		Sample	Time	Color / Description
Depth Sampled: <u>1-6"</u>				
Sample Date & Time: <u>9/9/91 1400</u>				
Sampled By: <u>TR</u>				
Signature(s): <i>[Signature]</i>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
			<u>Black stained soil Abundant Gravel</u>	
Analysis	Taken?	Bottle ID #	C or C #	Notes
<u>ROUTINE S</u>	<input checked="" type="checkbox"/>	<u>B1162-1</u>	<u>#19</u>	<u>In Salvage Yard @ Down Storage AREA approx. Half way between locations 20 &amp; 21. Dark Stained Soil</u>
<u>TCL VOLATILES</u>	<input checked="" type="checkbox"/>	<u>05029110</u>		
<u>TCL BNA</u>	<input checked="" type="checkbox"/>			
<u>TAL METALS</u>	<input checked="" type="checkbox"/>			
<u>CYANIDE</u>	<input checked="" type="checkbox"/>			
<u>STAINED SOIL S</u>	<input checked="" type="checkbox"/>			
<u>TCL PCBs/PESTICIDES</u>	<input checked="" type="checkbox"/>			



SAMPLE LOG SHEET

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- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By JK

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SS-3-2700-D Source Location Site-3

Sample Method: <u>SS TROWEL</u>		Composite Sample Data		
Depth Sampled: <u>1-6"</u>		Sample	Time	Color / Description
Sample Date & Time: <u>9/9/91 1400</u>				
Sampled By: <u>JK</u>				
Signature(s): <i>[Signature]</i>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
			<u>Black stained Soil Abundant Gravel</u>	
Analysis	Taken?	Bottle ID #	CofC #	Notes
<del>ROUTINE S</del>	<del>✓</del>	<del>81162-1</del>	<del># 19</del>	<u>same as BP-SS-3-2700</u>
TCL VOLATILES	✓	81162-1	# 19	
TCL BNA	✓	05029110	↓	
TAL METALS	✓	↓	↓	
CYANIDE	✓	↓	↓	
<del>STAINED SOIL</del>	<del>✓</del>	<del>_____</del>	<del>_____</del>	
TCL PCBs / PESTICIDES				

- 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-3-2800

Source Location S-4-3

Sample Method: <u>SS TROWEL</u>	Composite Sample Data			
	Sample	Time	Color / Description	
Depth Sampled: <u>1-6"</u>			/	
Sample Date & Time: <u>1430</u>				
Sampled By: <u>TK</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
Sample Data				
Color <u>Brown</u>		Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>Resembles Fill (Abundant Gravel)</u>		
Analysis	Taken?	Bottle ID #	COC #	Notes
<del>ROUTINE 3</del>	<del>✓</del>	<del>BH62-1</del>	<del>T19</del>	taken down gradient of salvaged TRANSFORMERS IN SALVAGE YARD
TCL VOLATILES	✓	BH62-1	T19	
TCL BNA	✓	05029110		
TAL METALS	✓			
CYANIDE	✓			
<del>STAINED SOIL 3</del>	<del>✓</del>	<del></del>	<del></del>	
TCL PCBs/PESTICIDES	✓			

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other Rinseate

Case #             
By TR

Project Site Name NUIRP BETHPAGE Project Site Number 3281  
NUS Source No. BP-SS-04-RB Source Location Rinseate Blank

Sample Method: <u>SEE NOTES</u> <u>SS TROWEL</u>	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: <u>                    </u>			
Sample Date & Time: <u>9/9/91</u> <u>1600</u>			
Sampled By: <u>TR</u>			
Signature(s): <u>[Signature]</u>			
Type of Sample			
<input checked="" type="checkbox"/> Low Concentration			
<input type="checkbox"/> High Concentration			
<input checked="" type="checkbox"/> Grab			
<input type="checkbox"/> Composite			
<input type="checkbox"/> Grab - Composite			
	Sample Data		
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	

Analysis	Taken?	Bottle ID #	CoC #	Notes
<del>ROUTINE 3</del>	<del>          </del>	<del>          </del>	<del>          </del>	
TCL VOLATILES	✓	B1162-1	#19	Filtered Steam
TCL BNA	✓	N/A		Distilled H <sub>2</sub> O
TAL METALS	✓			over SS
CYANIDE	✓			Trowel
<del>STAINED SOIL 3</del>	<del>          </del>	<del>          </del>	<del>          </del>	
TCL PCBs/Pesticides				Elect. fied
				H <sub>2</sub> O con.
				Lot # 13091

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other TRIP BLANK

Case #           

By TR

Project Site Name NUIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SS-05-TB Source Location TRIP BLANK


Sample Method: <u>Pip. At Ortek</u> <u>SS FROWEL TCL LAB</u>		Composite Sample Data		
Depth Sampled: <u>1-6"</u>	Sample	Time	Color / Description	
Sample Date & Time: <u>8/30/91</u>			/	
Sampled By: <u>ORTEK / TR</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
Sample Data				
Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE S</u>				
<u>TCL VOLATILES</u>	✓	-	#20	
<u>TCL BNA</u>				
<u>TAL METALS</u>				
<u>CYANIDE</u>				
<u>STAINED SOIL S</u>				
<u>TCL PCBs / PESTICIDES</u>				

- 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-3-2200 MS Source Location Site-3

Sample Method:	Composite Sample Data			
<u>SS TROWEL</u>	Sample	Time	Color/Description	
Depth Sampled: <u>1-6"</u>			<div style="font-size: 48px; opacity: 0.5;">N/A</div>	
Sample Date & Time: <u>9/10/91 0830</u>				
Sampled By: <u>TR</u>				
Signature(s): 				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
<b>Sample Data</b>				
Color <u>Black</u> <u>Bluish</u>		Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>Residual Fill</u> <u>Sand/Silt</u> <u>Abundant gravel some organic</u>		
Analysis	Taken?	Bottle ID #	Co/C #	Notes
<u>ROUTINE S</u>	<input checked="" type="checkbox"/>	<del>...</del>	<del>...</del>	<u>Bone Yard</u> <u>≈ center of</u> <u>South Fence</u>
<u>TCL VOLATILES</u>	<input checked="" type="checkbox"/>	<u>B1084-2</u>	<u>#20</u>	
<u>TCL BNA</u>	<input checked="" type="checkbox"/>	<u>05019110</u>		
<u>TAL METALS</u>	<input checked="" type="checkbox"/>			
<u>CYANIDE</u>	<input checked="" type="checkbox"/>			
<u>STAINED SOIL S</u>	<input checked="" type="checkbox"/>			
<u>TCL PCBs/PESTICIDES</u>	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			



SAMPLE LOG SHEET

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- 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 S.1C-3

Sample Method: <u>SS TROWEL</u>	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: <u>1-6"</u>			
Sample Date & Time: <u>9/14/91 0900</u>			
Sampled By: <u>TR</u>			
Signature(s): <u>[Signature]</u>			
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite	Sample Data		
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
	<u>Fine to Med</u>	<u>1 Sand/Silt Abundant GRAVEL some organics</u>	

Analysis	Taken?	Bottle ID #	Co/C #	Notes
<u>ROUTINE S</u>				<u>NW corner OF BUNK YARD</u>
<u>TCL VOLATILES</u>		<u>B7084-2</u>	<u>#20</u>	
<u>TCL BNA</u>		<u>05019110</u>		
<u>TAL METALS</u>		↓	↓	
<u>CYANIDE</u>				
<u>STAINED SOIL S</u>				
<u>TCL PCBs/PESTICIDES</u>				



SAMPLE LOG SHEET

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- 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-3-2900 Source Location Site-3

Sample Method: <u>SS TROWEL</u>		Composite Sample Data		
Depth Sampled: <u>1-6"</u>		Sample	Time	Color/Description
Sample Date & Time: <u>9/10/91 0930</u>				/
Sampled By: <u>TR</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite		Sample Data		
		Color	Description: (Sand, Clay, Dry/Moist, Wet, etc.)	
		<u>Brown</u>	<u>Resembles Fill (SiH/Sand) Abundant gravel</u>	
Analysis	Taken?	Bottle ID #	Co/C #	
<u>ROUTINE 3</u>	<input checked="" type="checkbox"/>	<u>B1089-2</u>	<u># 20</u>	NE CORNER OF BUS YARD
<u>TCL VOLATILES</u>	<input checked="" type="checkbox"/>	<u>05019/10</u>		
<u>TCL BNA</u>	<input checked="" type="checkbox"/>			
<u>TAL METALS</u>	<input checked="" type="checkbox"/>			
<u>CYANIDE</u>	<input checked="" type="checkbox"/>			
<u>STAINED SOIL 3</u>	<input checked="" type="checkbox"/>			
<u>TCL PCBs/PESTICIDES</u>	<input type="checkbox"/>			



- 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-3-2900 Source Location Site - 3

Sample Method: <u>SS TROWEL</u>	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: <u>1-6"</u>			/
Sample Date & Time: <u>9/10/91 0945</u>			
Sampled By: <u>TK</u>			
Signature(s): <u>[Signature]</u>			
Type of Sample			
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite			
Sample Data			
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>Damp</u>	
	<u>Dark Brn</u>	<u>Resembling fill (Silt/Sand) Abundant gravel some organic</u>	

Analysis	Taken?	Bottle ID #	Co-C #	Notes
<del>ROUTINE S</del>	<del>✓</del>	<del>B1162-1</del>	<del>II 20</del>	~ Center of BONE YARD
TCL VOLATILES	✓	B1162-1	II 20	
TCL BNA	✓	05029110		
TAL METALS	✓			
CYANIDE	✓			
<del>STAINED SOIL S</del>	<del>✓</del>	<del></del>	<del></del>	
TCL PCBs/PESTICIDES	✓			

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other RINSE BLANK

Case #           

By TR

Project Site Name NWIRP BETHPAGE

Project Site Number 3281

NUS Source No. BP-SS-05-RB

Source Location Skat. Distilled H<sub>2</sub>O; LTR 13091

<p>Sample Method: <u>Distilled H<sub>2</sub>O</u> <u>SS TROWEL</u> <small>(POURED OVER)</small></p> <p>Depth Sampled: <u>1-6" (TR)</u></p> <p>Sample Date &amp; Time: <u>9/10/91 1015</u></p> <p>Sampled By: <u>TR</u></p> <p>Signature(s): <u>[Signature]</u></p> <p>Type of Sample</p> <p><input checked="" type="checkbox"/> Low Concentration</p> <p><input type="checkbox"/> High Concentration</p> <p><input checked="" type="checkbox"/> Grab</p> <p><input type="checkbox"/> Composite</p> <p><input type="checkbox"/> Grab - Composite</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3">Composite Sample Data</th> </tr> <tr> <th>Sample</th> <th>Time</th> <th>Color / Description</th> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	Composite Sample Data			Sample	Time	Color / Description																														
Composite Sample Data																																					
Sample	Time	Color / Description																																			
<p><b>Sample Data</b></p>																																					
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)																																				
<p><b>Analysis</b></p>																																					
Analysis	Taken?	Bottle ID #	C of C #	Notes																																	
<u>ROUTINE S</u>																																					
<u>TCL VOLATILES</u>	✓	<u>81162-1</u>	<u>II 20</u>																																		
<u>TCL BNA</u>	✓	<u>          </u>	↓																																		
<u>TAL METALS</u>	✓	<u>          </u>																																			
<u>CYANIDE</u>	✓	<u>          </u>																																			
<u>STAINED SOIL S</u>																																					
<u>TCL PCBs / PESTICIDES</u>																																					

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 - RINSE 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 <sup>MATRIX SPIKE/DUP</sup> 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 3-5' (Routine & Dup)	SB41 / E-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-2-20403	↓	209 3-5'	SB 59
BP-SB-03-RB	↓	SOIL BORING RINSAKE BLANK	SB 60
BP-SB-02-PW	9-10-91	MONITORING WELL (GRWT) SOIL BORING (TR) POTABLE H2O	SB 61



SAMPLE LOG SHEET

Page SB1 of SB61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By JAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB-1-11903 Source Location Site 1 Boring 119

Sample Method: <u>SPLIT SPOON</u>		Composite Sample Data		
Depth Sampled: <u>3-5'</u>		Sample	Time	Color/Description
Sample Date & Time: <u>8-26-91</u> <u>1140</u>				
Sampled By: <u>D. Yost</u>				
Signature(s): <u>D. Yost</u>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<u>TAN-BROWN</u>	<u>SAND SOME GRAVEL DAMP-MOIST</u>	
Analysis	Taken?	Bottle ID #	Co/C #	Notes
<u>ROUTINE :</u>	<input checked="" type="checkbox"/>	<u>2-1074-03</u>	<u>#1</u>	} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volatiles</u>	<input checked="" type="checkbox"/>	<u>05169016</u>	↓	
<u>BNA</u>	<input checked="" type="checkbox"/>	<u>"</u>		
<u>TAL METALS</u>	<input checked="" type="checkbox"/>	<u>"</u>		
<u>CYANIDE</u>	<input checked="" type="checkbox"/>	<u>"</u>		
<u>STAINED SOIL :</u>	<input type="checkbox"/>			
<u>PCBs / Pesticides</u>	<input type="checkbox"/>			
<u>ENGINEERING PARAMETERS</u>	<input type="checkbox"/>			
<u>pH</u>	<input type="checkbox"/>			
<u>TOC</u>	<input type="checkbox"/>			
<u>BULK DENSITY</u>	<input type="checkbox"/>			
<u>GRAIN SIZE</u>	<input type="checkbox"/>			
<u>MOISTURE CONTENT</u>	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			



**SAMPLE LOG SHEET**

Page SB2 of SB61

- 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-11919 Source Location Site 1 Bethpage 119

Sample Method: <u>SPLIT SPOON</u>	Composite Sample Data			
Depth Sampled: <u>19-21'</u>	Sample	Time	Color / Description	
Sample Date & Time: <u>8-26-91</u> <u>1200</u>	/			
Sampled By: <u>D. Yost</u>				
Signature(s): <u>D. Yost</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
Sample Data				
	Color <u>TAN-LI BROWN</u>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>SAND AND GRAVEL MOIST</u>		
Analysis	Taken?	Bottle ID #	Co/C #	Notes
<u>ROUTINE %</u>	<input checked="" type="checkbox"/>	<u>2-1074-03</u>	<u>#1</u>	} 3'-5' & 19'-21'
<u>TCL Volatiles</u>	<input checked="" type="checkbox"/>			
<u>BNA</u>			↓ <u>TL</u>	} 3'-5' Only
<u>TAL Metals</u>				
<u>CYANIDE</u>				
<u>STAINED SOIL %</u>				
<u>PCBS / PESTICIDES</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



# SAMPLE LOG SHEET

Page SB3 of SB61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By RP

Project Site Name NWIRP BETHPAGE

Project Site Number 3281

NUS Source No. BP-SB-1-11303

Source Location Site 1 Borings 113

Sample Method:	Composite Sample Data			
<u>SPLIT SPOON</u>	Sample	Time	Color / Description	
Depth Sampled: <u>3' - 5'</u>			/	
Sample Date & Time: <u>1145 8/26/91</u>				
Sampled By: <u>RP</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
<b>Sample Data</b>				
Color <u>Yellow-Brown</u>		Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>FINE-COARSE SAND SOME GRAVEL</u>		
Analysis	Taken?	Bottle ID #	Cor C #	Notes
<u>ROUTINE :</u>				} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volat./es</u>	✓	<u>2-1074-03</u>	# 1	
<u>BNA</u>	✓	<u>05169106</u>	/	
<u>TAL METALS</u>	✓	↓	/	
<u>CYANIDE</u>	✓	↓	/	
<u>STAINED SOIL :</u>				
<u>PCBs / PESTICIDES</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				





# SAMPLE LOG SHEET

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- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

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: <u>SPLIT SPOON</u>		Composite Sample Data				
Depth Sampled: <u>19-21'</u>	Sample	Time	Color / Description			
Sample Date & Time: <u>12.10 8/26/91</u>			/			
Sampled By: <u>RP</u>						
Signature(s): <u>RP</u>						
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite					Sample Data	
					Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
			<u>LT. BROWN</u>	<u>COARSE SAND AND GRAVEL</u>		
Analysis	Taken?	Bottle ID #	Co/C #	Notes		
<u>ROUTINE %</u>				} 3'-5' & 19'-21' } 3'-5' only		
<u>TCL Volatiles</u>	✓	<u>B7336-40</u>	#1			
<u>BNA</u>						
<u>TAL METALS</u>						
<u>CYANIDE</u>						
<u>STAINED SOIL %</u>						
<u>PCBs / Pesticides</u>						
<u>ENGINEERING PARAMETERS</u>						
<u>pH</u>						
<u>TOC</u>						
<u>BULK DENSITY</u>						
<u>GRAIN SIZE</u>						
<u>MOISTURE CONTENT</u>						



**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-1103 OR Source Location Site 1 Soil Boring 103

Sample Method: <i>SPLIT SPOON</i>		Composite Sample Data		
Depth Sampled: <i>3-5'</i>	Sample	Time	Color / Description	
Sample Date & Time: <i>8-26-91 1430</i>				
Sampled By: <i>D. YOST</i>				
Signature(s): <i>D. Yost</i>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite	Sample Data			
	Color <i>Brown</i>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <i>SAND AND GRAVELS DAMP</i>		
Analysis	Taken?	Bottle ID #	CoC #	Notes
<i>ROUTINE %</i>	<input checked="" type="checkbox"/>			} 3'-5' & 19'-21' } 3'-5' only
<i>TCL Volatiles</i>	<input checked="" type="checkbox"/>	<i>B-7336-40</i>	<i>#1</i>	
<i>BNA</i>	<input checked="" type="checkbox"/>	<i>05169016</i>		
<i>TAL METALS</i>	<input checked="" type="checkbox"/>	<i>"</i>		
<i>CYANIDE</i>	<input checked="" type="checkbox"/>	<i>"</i>		
<i>STAINED SOIL %</i>	<input checked="" type="checkbox"/>			
<i>PCBs / PESTICIDES</i>	<input checked="" type="checkbox"/>			
<i>ENGINEERING PARAMETERS</i>	<input checked="" type="checkbox"/>			
<i>pH</i>				
<i>TOC</i>				
<i>BULK DENSITY</i>				
<i>GRAIN SIZE</i>				
<i>MOISTURE CONTENT</i>				



# 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-1-103-19

Source Location Site 1 Soil Boring 103

Sample Method: <u>SPLIT SPOON</u>		Composite Sample Data		
Depth Sampled: <u>19-21'</u>	Sample	Time	Color / Description	
Sample Date & Time: <u>8-26-91 1458</u>			<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(45deg);"></div>	
Sampled By: <u>D. YOST</u>				
Signature(s): <u>D. Yost</u>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<u>REDDISH BROWN</u>	<u>SAND AND GRAVELS DAMP MOIST</u>	
Analysis	Taken?	Bottle ID #	Co/C #	Notes
<u>ROUTINE :</u>	<input checked="" type="checkbox"/>	<u>B7336 40</u>	<u>#1</u>	} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volatiles</u>	<input checked="" type="checkbox"/>			
<u>BNA</u>	<input type="checkbox"/>			
<u>TAL METALS</u>	<input type="checkbox"/>			
<u>CYANIDE</u>	<input type="checkbox"/>			
<u>STAINED SOIL :</u>	<input type="checkbox"/>			
<u>PCBs / PESTICIDES</u>	<input type="checkbox"/>			
<u>ENGINEERING PARAMETERS</u>	<input type="checkbox"/>			
<u>pH</u>	<input type="checkbox"/>			
<u>TOC</u>	<input type="checkbox"/>			
<u>BULK DENSITY</u>	<input type="checkbox"/>			
<u>GRAIN SIZE</u>	<input type="checkbox"/>			
<u>MOISTURE CONTENT</u>	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			



**SAMPLE LOG SHEET**

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- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By RP

Project Site Name NWIRP BETHPAGE

Project Site Number 3281

NUS Source No. BP-SB-F1103

Source Location Site #1 Soil Boring #11

Sample Method: <u>SPLIT SPOON</u>		Composite Sample Data		
Depth Sampled: <u>3'-5'</u>	Sample	Time	Color / Description	
Sample Date & Time: <u>8/26/91 1555</u>			/	
Sampled By: <u>RP</u>				
Signature(s): <u>RP [Signature]</u>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<u>BROWN</u>	<u>COARSE SAND</u>	
Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE :</u>	<u>/</u>			
<u>TCL Volat./es</u>	<u>/</u>	<u>67326-40 (3)</u>	<u>#1</u>	} 3'-5' & 19'-21' } 3'-5' only
<u>BNA</u>	<u>/</u>	<u>051961</u>	↓	
<u>TAL METALS</u>	<u>/</u>	<u>051961</u>	↓	
<u>CYANIDE</u>	<u>/</u>	↓	↓	
<u>STAINED SOIL :</u>				
<u>PCBs / PESTICIDES</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



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-1-11119 Source Location Site 1 Boring 111

Sample Method: <u>SPLIT SPOON</u>		Composite Sample Data		
		Sample	Time	Color / Description
Depth Sampled: <u>19'-21'</u>				/
Sample Date & Time: <u>8/26/91 1630</u>				
Sampled By: <u>RP</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<u>Red-Brown</u>	<u>COARSE SAND AND GRAVEL</u>	
Analysis	Taken?	Bottle ID #	Co/C #	Notes
<u>ROUTINE :</u>	<u>/</u>			} 3'-5' & 19'-21'
<u>TCL Volatiles</u>	<u>/</u>	<u>67336-40 (3)</u>	<u>1</u>	
<u>BNA</u>				
<u>TAL METALS</u>				} 3'-5' Only
<u>CYANIDE</u>				
<u>STAINED SOIL :</u>				
<u>PCBS / PESTICIDES</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



# SAMPLE LOG SHEET

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- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other TRIP BLANK

Case #           

By TK

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB-01-TB Source Location TRIP BLANK

Sample Method: <u>Prep by ORTEK</u> <u>-SPLIT SPOON TK</u>	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: <u>          </u>			
Sample Date & Time: <u>8-22-91</u>			
Sampled By: <u>TK / ORTEK LAB</u>			
Signature(s): <u>[Signature]</u>			
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite	Sample Data		
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	

Analysis	Taken?	Bottle ID #	C or C #	Notes
<u>ROUTINE :</u>	<u>[X]</u>	<u>          </u>	<u>          </u>	} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volatiles</u>	<u>✓</u>	<u>          </u>	<u>#1</u>	
<u>BNA</u>				
<u>TAL METALS</u>				
<u>CYANIDE</u>				
<u>STAINED SOIL :</u>	<u>[X]</u>	<u>          </u>	<u>          </u>	
<u>PCBs / PESTICIDES</u>	<u>[X]</u>	<u>          </u>	<u>          </u>	
<u>ENGINEERING PARAMETERS</u>	<u>[X]</u>	<u>          </u>	<u>          </u>	
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



SAMPLE LOG SHEET

Page 589A of 5861

- 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: <u>SEE NOTES</u> <u>SPLIT SPREAD TR</u>	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: <u>          </u>			/
Sample Date & Time: <u>8/22/91</u>			
Sampled By: <u>TR / ORTEK</u>			
Signature(s): <u>[Signature]</u>			
Type of Sample			
<input checked="" type="checkbox"/> Low Concentration			
<input type="checkbox"/> High Concentration			
<input checked="" type="checkbox"/> Grab			
<input type="checkbox"/> Composite			
<input type="checkbox"/> Grab - Composite			
	Sample Data		
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	

Analysis	Taken?	Bottle ID #	CoC #	Notes
<del>ROUTINE %</del>	<del>          </del>	<del>          </del>	<del>          </del>	} 3'-5' & 19'-21' 3'-5' only
TCL Volatiles	✓	N/A	4	
BNA				
TAL METALS				
CYANIDE				LAB Prepared trip blank by ORTEK
<del>STAINED SOIL %</del>	<del>          </del>	<del>          </del>	<del>          </del>	
<del>PCBs / PESTICIDES</del>	<del>          </del>	<del>          </del>	<del>          </del>	
<del>ENGINEERING PARAMETERS</del>	<del>          </del>	<del>          </del>	<del>          </del>	
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				



# SAMPLE LOG SHEET

Page SB10 of SB61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By JAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB-442 (TL) 3-1-11203 Source Location Site 1 Soil Boring 112

Sample Method: <u>SPLIT SPOON</u>		Composite Sample Data		
		Sample	Time	Color/Description
Depth Sampled: <u>3-5' ± 0.1'</u>				/
Sample Date & Time: <u>8-26-91 1745</u>				
Sampled By: <u>D. Yost</u>				
Signature(s): <u>D. Yost</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite		Sample Data		
		Color <u>Brown</u>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>SAND WITH GRAVEL DAMP</u>	
Analysis	Taken?	Bottle ID #	Co-C #	Notes
<u>ROUTINE :</u>	<u>/</u>	<u>-</u>	<u>4</u>	} 3'-5' & 19'-21' 3'-5' only
<u>TCL Volatiles</u>	<u>/</u>	<u>-</u>	<u>4</u>	
<u>BNA</u>	<u>/</u>	<u>05169136</u>	<u>4</u>	
<u>TAL METALS</u>	<u>/</u>	<u>-</u>	<u>4</u>	
<u>CYANIDE</u>	<u>/</u>	<u>-</u>	<u>4</u>	
<u>STAINED SOIL :</u>				
<u>PCBs / PESTICIDES</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				





**SAMPLE LOG SHEET**

Page SB11 of SB61

- 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-H112 19

Source Location Site 1 Surf Boring 112

Sample Method: <u>SPLIT SPOON</u>		Composite Sample Data		
	Sample	Time	Color / Description	
Depth Sampled: <u>19-21'</u>			/	
Sample Date & Time: <u>8-26-91 1315</u>				
Sampled By: <u>D. YOST</u>				
Signature(s): <u>D. YOST</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<u>BROWN</u>	<u>SAND AND GRAVEL</u> <span style="float: right;"><u>MOIST</u></span>	
Analysis	Taken?	Bottle ID #	Co-C #	Notes
<u>ROUTINE :</u>	<input checked="" type="checkbox"/>	<u>-</u>	<u>4</u>	} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volatiles</u>	<input checked="" type="checkbox"/>			
<u>BNA</u>	<input type="checkbox"/>			
<u>TAL METALS</u>	<input type="checkbox"/>			
<u>CYANIDE</u>	<input type="checkbox"/>			
<u>STAINED SOIL :</u>	<input type="checkbox"/>			
<u>PCBs / PESTICIDES</u>	<input type="checkbox"/>			
<u>ENGINEERING PARAMETERS</u>	<input type="checkbox"/>			
<u>pH</u>	<input type="checkbox"/>			
<u>TOC</u>	<input type="checkbox"/>			
<u>BULK DENSITY</u>	<input type="checkbox"/>			
<u>GRAIN SIZE</u>	<input type="checkbox"/>			
<u>MOISTURE CONTENT</u>	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			



SAMPLE LOG SHEET

Page SB12 of SB61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB-110419 Source Location Site 1 Soil Boring 109

Sample Method:	Composite Sample Data			
<u>SPLIT SPOON</u>	Sample	Time	Color / Description	
Depth Sampled: <u>19-21'</u>			/	
Sample Date & Time: <u>08-27-91 - 0750 Hrs</u>				
Sampled By: <u>R. Patency</u>				
Signature(s): <u>Direct For R. Patency</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
Sample Data				
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)		
	<u>BROWN</u>	<u>COARSE SAND GRAVEL</u>		
Analysis	Taken?	Bottle ID #	C of C #	Notes
<u>ROUTINE :</u>				} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volatiles</u>	✓	-	4	
<u>BNA</u>				
<u>TAL METALS</u>				
<u>CYANIDE</u>				
<u>STAINED SOIL :</u>				
<u>PCBs / Pesticides</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



SAMPLE LOG SHEET

Page SB13 of SB61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By TR

Project Site Name NWIRP BETHPAGE

Project Site Number 3281

NUS Source No. BP-SB-1-10419-D

Source Location Site 1 S. 1 Boring 104  
DUP of BP-SB-1-10419

Sample Method: <u>SPLIT SPOON</u>		Composite Sample Data		
Depth Sampled: <u>19-21'</u>	Sample	Time	Color/Description	
Sample Date & Time: <u>08-27-91 0750 Hrs</u>			N/A	
Sampled By: <u>R. Patencity</u>				
Signature(s): <u>R. Patencity</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<u>BROWN</u>	<u>COARSE SAND AND GRAVEL</u>	
Analysis	Taken?	Bottle ID #	Co/C #	Notes
<u>ROUTINE %</u>	<input checked="" type="checkbox"/>			} 3'-5' & 19'-21'
<u>TCL Volatiles</u>	<input checked="" type="checkbox"/>		<u>4</u>	
<u>BNA</u>				
<u>TAL METALS</u>				} 3'-5' only
<u>CYANIDE</u>				
<u>STAINED SOIL %</u>				
<u>PCBs / PESTICIDES</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



# SAMPLE LOG SHEET

Page SB14 of 513 SB11

- 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-1-115 03 Source Location SITE 1 SB 115

Sample Method: <u>SPLIT SPOON</u>		Composite Sample Data				
Depth Sampled: <u>3-5'</u>	Sample	Time	Color / Description			
Sample Date & Time: <u>8-27-91</u> <u>0846</u>			<div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; border: 1px solid black; transform: rotate(45deg); opacity: 0.5;"></div>			
Sampled By: <u>D. YOST</u>						
Signature(s): <u>D. Yost</u>						
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite						
					Sample Data	
		Color <u>Brown</u>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>SAND AND GRAVEL DAMP</u>			
Analysis	Taken?	Bottle ID #	Co-C #	Notes		
<u>ROUTINE :</u>				} 3'-5' & 19'-21'		
<u>TCL Volat./Gs</u>	✓	—	4			
<u>BNA</u>	✓	05199106	↓			
<u>TAL METALS</u>	✓	"	↓			
<u>CYANIDE</u>	✓	"	↓	} 3'-5' only		
<u>STAINED SOIL :</u>						
<u>PCBs / PESTICIDES</u>						
<u>ENGINEERING PARAMETERS</u>						
<u>pH</u>	✓	—	6			
<u>TOC</u>	✓	—	↓			
<u>BULK DENSITY</u>	✓	—	↓			
<u>GRAIN SIZE</u>	✓	—	↓			
<u>MOISTURE CONTENT</u>	✓	—	↓			



# SAMPLE LOG SHEET

Page SB15 of SB61

- 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-1-115-19 Source Location SITE 1 SB115

Sample Method: <i>SPLIT SPOON</i>	Composite Sample Data			
Depth Sampled: <i>19-21</i>	Sample	Time	Color / Description	
Sample Date & Time: <i>8-27-91 0900</i>	/			
Sampled By: <i>D. YOST</i>				
Signature(s): <i>D. Yost</i>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
Sample Data				
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)		
	<i>TANISH BROWN</i>	<i>SAND AND GRAVEL TR SILT</i>		
Analysis	Taken?	Bottle ID #	CoC #	Notes
<b>ROUTINE %</b>				} 3'-5' & 19'-21' } 3'-5' only
TCL Volatiles	✓	-	4	
BNA				
TAL METALS				
CYANIDE				
<b>STAINED SOIL %</b>				
PCBs / PESTICIDES				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				



# SAMPLE LOG SHEET

Page SB16 of SB61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

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: <i>SPLIT SPOON</i>		Composite Sample Data		
Depth Sampled: <i>3-5'</i>	Sample	Time	Color / Description	
Sample Date & Time: <i>8-27-91 1020</i>			<i>N/A</i>	
Sampled By: <i>R Patency</i>				
Signature(s): <i>[Signature]</i>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<i>Brown</i>	<i>COARSE SAND AND GRAVEL</i>	
Analysis	Taken?	Bottle ID #	Co/C #	Notes
<i>ROUTINE :</i>				<i>3'-5' &amp; 19'-21'</i> <i>3'-5' only</i>
<i>TCL Volatiles</i>	<i>✓</i>	<i>-</i>	<i>4</i>	
<i>BNA</i>	<i>✓</i>		↓	
<i>TAL METALS</i>	<i>✓</i>			
<i>CYANIDE</i>	<i>✓</i>			
<i>STAINED SOIL :</i>				
<i>PCBs / PESTICIDES</i>				
<i>ENGINEERING PARAMETERS</i>				
<i>pH</i>				
<i>TOC</i>				
<i>BULK DENSITY</i>				
<i>GRAIN SIZE</i>				
<i>MOISTURE CONTENT</i>				



# SAMPLE LOG SHEET

Page SB17 of SB61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB-3-33819 Source Location Site 3 Boring 33E

Sample Method: <u>SPLIT SPOON</u>	Composite Sample Data			
Depth Sampled: <u>19-21'</u>	Sample	Time	Color / Description	
Sample Date & Time: <u>E-27-91</u>	<div style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;">N/A</div>			
Sampled By: <u>R. Patencity</u>				
Signature(s): <u>D. Vest for R. Patencity</u>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
<b>Sample Data</b>				
	Color <u>Brown</u>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>COARSE-MEDIUM sand and gravel moist</u>		
Analysis	Taken?	Bottle ID #	Co/C #	Notes
<u>ROUTINE :</u>				} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volatiles</u>	✓	-	4	
<u>BNA</u>				
<u>TAL METALS</u>				
<u>CYANIDE</u>				
<u>STAINED SOIL :</u>				
<u>PCBs / Pesticides</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



**SAMPLE LOG SHEET**

Page SB18 of SB61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By FRED RANER

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB3334-05<sup>FILE</sup>03 Source Location SITE #3 SB 334

Sample Method: <u>SPLIT SPOON</u>		Composite Sample Data		
Depth Sampled:	Sample	Time	Color / Description	
<u>3' to 5'</u>			/	
Sample Date & Time: <u>8-27-91 1215 HRS</u>				
Sampled By: <u>DAY</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<u>Reddish Brown</u>	<u>SAND AND GRAVEL DAMP</u>	
Analysis	Taken?	Bottle ID #	Co-C #	Notes
<u>ROUTINE %</u>				} 3'-5' & 19'-21' 3'-5' Only
<u>TCL Volat./65</u>	✓	-	4	
<u>BNA</u>	✓	05169106	↓	
<u>TAL METALS</u>	✓	"	↓	
<u>CYANIDE</u>	✓	"		
<u>STAINED SOIL %</u>				
<u>PCBs / PESTICIDES</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				





# SAMPLE LOG SHEET

Page SB190 of SB61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB3334-19 Source Location SITE 3 SB 334

Sample Method: <i>SPLIT SPOON</i>		Composite Sample Data		
Depth Sampled: <i>19-21</i>	Sample	Time	Color / Description	
Sample Date & Time: <i>8-27-91 1235</i>	/			
Sampled By: <i>D. YOST</i>				
Signature(s): <i>D. Yost</i>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<i>LT BROWN</i>	<i>SAND AND GRAVEL Moist</i>	
Analysis	Taken?	Bottle ID #	CoC #	Notes
<i>ROUTINE :</i>	<input checked="" type="checkbox"/>			} 3'-5' & 19'-21' } 3'-5' only
<i>TCL Volatiles</i>	<input checked="" type="checkbox"/>	<i>-</i>	<i>4</i>	
<i>BNA</i>	<input type="checkbox"/>			
<i>TAL METALS</i>	<input type="checkbox"/>			
<i>CYANIDE</i>	<input type="checkbox"/>			
<i>STAINED SOIL :</i>	<input checked="" type="checkbox"/>			
<i>PCBs / PESTICIDES</i>	<input checked="" type="checkbox"/>			
<i>ENGINEERING PARAMETERS</i>	<input checked="" type="checkbox"/>			
<i>pH</i>	<input type="checkbox"/>			
<i>TOC</i>	<input type="checkbox"/>			
<i>BULK DENSITY</i>	<input type="checkbox"/>			
<i>GRAIN SIZE</i>	<input type="checkbox"/>			
<i>MOISTURE CONTENT</i>	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			



# SAMPLE LOG SHEET

Page SB20 of SB61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other FIELD BLANK

Case #           

By TR

Project Site Name NWIRP BETHPAGE

Project Site Number 3281

NUS Source No. BP-SB-01-FB

Source Location FIELD BLANK

Sample Method: <u>SEE NOTES</u> <del>SPLIT SPOON TR</del>	Composite Sample Data		
Depth Sampled: <u>          </u>	Sample	Time	Color / Description
Sample Date & Time: <u>02/27/91 1515</u>			
Sampled By: <u>TR</u>			
Signature(s): <i>[Signature]</i>		<u>N/A</u>	
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite			
	Sample Data		
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	

Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE :</u>	<input checked="" type="checkbox"/>	<u>N/A</u>	<u>5</u>	} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volatiles</u>	<input checked="" type="checkbox"/>	<u>N/A</u>	<u>5</u>	
<u>BNA</u>	<input checked="" type="checkbox"/>	↓	<u>5</u>	
<u>TAL METALS</u>	<input checked="" type="checkbox"/>	↓	<u>5</u>	
<u>CYANIDE</u>	<input checked="" type="checkbox"/>	↓	<u>5</u>	
<u>STAINED SOIL :</u>	<input checked="" type="checkbox"/>			
<u>PCBs / Pesticides</u>	<input checked="" type="checkbox"/>			
<u>ENGINEERING PARAMETERS</u>	<input checked="" type="checkbox"/>			
<u>PH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				

Aquatics =  
 w/ stream  
 distilled H<sub>2</sub>O  
 poured  
 directly into  
 containers  
 Lot# 13091



# SAMPLE LOG SHEET

Page 5821 of 5861

- 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-01-RB Source Location Rinsate Blank

Sample Method: <u>SIE NOTES</u> <u>SPLIT SPOON (TR)</u>		Composite Sample Data		
Depth Sampled:	Sample	Time	Color / Description	
			N/A	
Sample Date & Time: <u>08/27/91 1520</u>				
Sampled By: <u>TR</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration				
<input type="checkbox"/> High Concentration				
<input checked="" type="checkbox"/> Grab				
<input type="checkbox"/> Composite				
<input type="checkbox"/> Grab - Composite				
			Sample Data	
			Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
				<u>GRAVEL Dg</u>
Analysis	Taken?	Bottle ID #	Co/C #	Notes
ROUTINE :	<input checked="" type="checkbox"/>			} 3'-5' & 19'-21' } 3'-5' only Aqueous w/ steam distilled H <sub>2</sub> O poured over split spoon Distilled H <sub>2</sub> O lot # 13091
TCL Volatiles	<input checked="" type="checkbox"/>	N/A	75	
BNA	<input checked="" type="checkbox"/>	↓	↓	
TAL METALS	<input checked="" type="checkbox"/>	↓	↓	
CYANIDE	<input checked="" type="checkbox"/>	↓	↓	
STAINED SOIL :	<input checked="" type="checkbox"/>			
PCBs / Pesticides	<input checked="" type="checkbox"/>			
ENGINEERING PARAMETERS	<input checked="" type="checkbox"/>			
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				



SAMPLE LOG SHEET

Page 5B22 of 5B41

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By RP

Project Site Name NWIRP BETHPAGE

Project Site Number 3281

NUS Source No. BP-SB-1-12103

Source Location Site 1 Boring 121

12103-D

Sample Method: <u>SPLIT SPOON</u>	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: <u>3'-5'</u>			
Sample Date & Time: <u>8/27/91 1408</u>			
Sampled By: <u>RP</u>			
Signature(s): <u>[Signature]</u>			
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite	Sample Data		
	Color <u>brown</u>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>SANDY GRAVEL</u>	

Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE :</u>				
<u>TCL Volatiles</u>	<u>/</u>	<u>67336-40 (3)</u>	<u>5</u>	<u>} 3'-5' &amp; 19'-21'</u> <u>} 3'-5' only</u>
<u>BNA</u>	<u>/</u>	<u>051961</u>		
<u>TAL METALS</u>	<u>/</u>	<u>051961</u>		
<u>CYANIDE</u>	<u>/</u>	<u>11</u>		
<u>STAINED SOIL :</u>				
<u>PCBs / PESTICIDES</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



SAMPLE LOG SHEET

Page SB23 of SB61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

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: <u>SPLIT SPOON</u>		Composite Sample Data		
Depth Sampled: <u>3'-5'</u>	Sample	Time	Color/Description	
Sample Date & Time: <u>8/27/91 1408</u>			/	
Sampled By: <u>R Poterlicity</u>				
Signature(s): <u>D. West for R. Poterlicity</u>		<u>H/A</u>		
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<u>BROWN</u>	<u>SANDY GRAVEL</u>	
Analysis	Taken?	Bottle ID #	C of C #	Notes
<u>ROUTINE :</u>				} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volatiles</u>	✓	<u>B-7336-40</u>	<u>5</u>	
<u>BNA</u>	✓	<u>051961</u>		
<u>TAL METALS</u>	✓	↓	↓	
<u>CYANIDE</u>	✓	↓	↓	
<u>STAINED SOIL :</u>				
<u>PCBs / PESTICIDES</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



SAMPLE LOG SHEET

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- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

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:		Composite Sample Data		
<u>SPLIT SPOON</u>		Sample	Time	Color / Description
Depth Sampled: <u>19'-21'</u>				
Sample Date & Time: <u>8/27/91 1415</u>				
Sampled By: <u>RP</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<u>BROWN</u>	<u>COARSE SAND AND GRAVEL</u>	
Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE 8</u>	<input checked="" type="checkbox"/>			} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volatiles</u>	<input checked="" type="checkbox"/>	<u>B-7336-40 (3)</u>	<u>5</u>	
<u>BNA</u>	<input type="checkbox"/>			
<u>TAL METALS</u>	<input type="checkbox"/>			
<u>CYANIDE</u>	<input type="checkbox"/>			
<u>STAINED SOIL %</u>	<input type="checkbox"/>			
<u>PCBs / Pesticides</u>	<input type="checkbox"/>			
<u>ENGINEERING PARAMETERS</u>	<input type="checkbox"/>			
<u>pH</u>	<input type="checkbox"/>			
<u>TOC</u>	<input type="checkbox"/>			
<u>BULK DENSITY</u>	<input type="checkbox"/>			
<u>GRAIN SIZE</u>	<input type="checkbox"/>			
<u>MOISTURE CONTENT</u>	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			



SAMPLE LOG SHEET

Page SB25 of SB61

- 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-03-TB Source Location TRIP BLANK

Sample Method: <u>LAB Prepared</u> <u>SPLIT SPOON TR</u>		Composite Sample Data		
Depth Sampled:	Sample	Time	Color / Description	
Sample Date & Time: <u>8-22-91</u>			N/A	
Sampled By: <u>TR E ORTEK</u>				
Signature(s): <i>[Signature]</i>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE %</u>	<input checked="" type="checkbox"/>			} 3'-5' & 19'-21' 3'-5' only
<u>TCL Volatiles</u>	<input checked="" type="checkbox"/>		<u>8</u>	
<u>BNA</u>				
<u>TAL METALS</u>				
<u>CYANIDE</u>				ORTEK TRIP BLANK
<u>STAINED SOIL %</u>				
<u>PCBs / Pesticides</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>PH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



# SAMPLE LOG SHEET

Page SB260 of SB C1

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB3379-03 Source Location SITE 3 SB 379

Sample Method: <u>SPLIT SPOON</u>	Composite Sample Data		
Depth Sampled: <u>3-5'</u>	Sample	Time	Color / Description
Sample Date & Time: <u>8-22-91</u> <u>659</u>			
Sampled By: <u>D. YOST</u>			
Signature(s): <u>D. Yost</u>			
Type of Sample			
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite			
Sample Data			
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.) (Fill)		
<u>Black-D Br.</u>	<u>CLAY WITH SOME SILT, GRAUZ, TR SAND</u>		

Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE %</u>	<u>✓</u>			} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volat. /os</u>	<u>✓</u>		<u>8</u>	
<u>BNA</u>	<u>✓</u>	<u>05169106</u>		
<u>TAL METALS</u>	<u>✓</u>	"		
<u>CYANIDE</u>	<u>✓</u>	"	↓	
<u>STAINED SOIL %</u>	<u>✓</u>			
<u>PCBS / PESTICIDES</u>	<u>✓</u>	<u>05169106</u>	<u>8</u>	
<u>ENGINEERING PARAMETERS</u>				
<u>PH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				





**SAMPLE LOG SHEET**

Page SB27 of SB61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB-1-11003-MS Source Location Site 1 Boring 110

Sample Method: <u>SPLIT SPOON</u>		Composite Sample Data		
		Sample	Time	Color/Description
Depth Sampled: <u>3'-5'</u>				
Sample Date & Time: <u>8/27/91 1735</u>				
Sampled By: <u>RP</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite		Sample Data		
		Color <u>BROWN</u>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>MEDIUM-COARSE SAND AND GRAVEL</u>	
Analysis	Taken?	Bottle ID #	Co/C #	Notes
<u>ROUTINE :</u>	<input checked="" type="checkbox"/>			} 3'-5' & 19'-21' } 3'-5' Only
<u>TCL Volat./es</u>	<input checked="" type="checkbox"/>	<u>0-7336-40 (3)</u>	<u>8</u>	
<u>BNA</u>	<input checked="" type="checkbox"/>	<u>051961</u>	↓	
<u>TAL METALS</u>	<input checked="" type="checkbox"/>	<u>051961</u>	↓	
<u>CYANIDE</u>	<input checked="" type="checkbox"/>	<u>"</u>	↓	
<u>STAINED SOIL :</u>	<input checked="" type="checkbox"/>			
<u>PCBs / Pesticides</u>	<input checked="" type="checkbox"/>			
<u>ENGINEERING PARAMETERS</u>	<input checked="" type="checkbox"/>			
<u>pH</u>	<input checked="" type="checkbox"/>	<u>-</u>	<u>9</u>	
<u>TOC</u>	<input checked="" type="checkbox"/>	<u>-</u>	↓	
<u>BULK DENSITY</u>	<input checked="" type="checkbox"/>	<u>-</u>	↓	
<u>GRAIN SIZE</u>	<input checked="" type="checkbox"/>	<u>-</u>	↓	
<u>MOISTURE CONTENT</u>	<input checked="" type="checkbox"/>	<u>-</u>	↓	



**SAMPLE LOG SHEET**

Page SB29 of SB41

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB-3-31803 Source Location Site 3 Building 316

Sample Method: <i>SPLIT SPOON</i>	Composite Sample Data			
Depth Sampled: <i>3'-5'</i>	Sample	Time	Color / Description	
Sample Date & Time: <i>8/28/91 0820</i>	/			
Sampled By: <i>RP</i>				
Signature(s): <i>[Signature]</i>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<i>LT BROWN</i>	<i>COARSE SAND AND GRAVEL</i>	
Analysis	Taken?	Bottle ID #	CoC #	Notes
<i>ROUTINE %</i>	<i>/</i>			} 3'-5' & 19'-21' 3'-5' only
<i>TCL Volat./65</i>	<i>/</i>	<i>B-7306-40 (3)</i>	<i>8</i>	
<i>BNA</i>	<i>/</i>	<i>051691</i>	↓	
<i>TAL METALS</i>	<i>/</i>	<i>05169106</i>		
<i>CYANIDE</i>	<i>/</i>			
<i>STAINED SOIL %</i>				
<i>PCBs / Pesticides</i>				
<i>ENGINEERING PARAMETERS</i>				
<i>pH</i>				
<i>TOC</i>				
<i>BULK DENSITY</i>				
<i>GRAIN SIZE</i>				
<i>MOISTURE CONTENT</i>				



**SAMPLE LOG SHEET**

Page 5B29 of 5B61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB-3-31819 Source Location Site 3 Boring 318

Sample Method: <u>SPLIT SPOON</u>	Composite Sample Data			
Depth Sampled: <u>19'-21'</u>	Sample	Time	Color/Description	
Sample Date & Time: <u>8/28/91 0840</u>			/	
Sampled By: <u>RP</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample: <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
Sample Data				
	Color <u>Yellow-Brown</u>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>FINE-MEDIUM SAND AND GRAVEL</u>		
Analysis	Taken?	Bottle ID #	Co/C #	Notes
ROUTINE %	<input checked="" type="checkbox"/>			} 3'-5' & 19'-21'
TCL Volatiles	<input checked="" type="checkbox"/>	<u>75 B-7336-40(3)</u>	<u>8</u>	
BNA				
TAL METALS				} 3'-5' only
CYANIDE				
STAINED SOIL %	<input checked="" type="checkbox"/>			
PCBs / PESTICIDES	<input checked="" type="checkbox"/>			
ENGINEERING PARAMETERS	<input checked="" type="checkbox"/>			
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				



# SAMPLE LOG SHEET

Page 5B30 of 5B61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

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: <u>SPLIT SPOON</u>		Composite Sample Data		
Depth Sampled: <u>3'-5'</u>	Sample	Time	Color / Description	
Sample Date & Time: <u>8-28-91 0825 HRS</u>			/	
Sampled By: <u>FRED W RAMSER</u>				
Signature(s): <u>Fred W Ramser</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
	Sample Data			
	Color <u>TAN TO BRN</u>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>SAND SOME GRAVEL TR/SILT MOIST</u>		
Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE %</u>	<input checked="" type="checkbox"/>			} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volat./es</u>	<input checked="" type="checkbox"/>		8	
<u>BNA</u>	<input checked="" type="checkbox"/>	<u>05<sup>th</sup> 16180-284</u>	↓	
<u>TAL METALS</u>	<input checked="" type="checkbox"/>	"		
<u>CYANIDE</u>	<input checked="" type="checkbox"/>	"		
<u>STAINED SOIL %</u>				
<u>PCBs / PESTICIDES</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>PH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



**SAMPLE LOG SHEET**

Page SB31 of SB61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By FR

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB-304-19 Source Location SB304 SITE #3

Sample Method: <u>SPLIT SPOON</u>		Composite Sample Data		
	Sample	Time	Color / Description	
Depth Sampled: <u>19' to 21'</u>			/	
Sample Date & Time: <u>8-28-91 0900 HRS</u>				
Sampled By: <u>FRED W. RAMSER</u>				
Signature(s): <u>Fred W. Ramser</u>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
			Sample Data	
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)		
	<u>TW TO BRN</u>	<u>SAND AND GRAVEL MOIST</u>		
Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE :</u>				} 3'-5' & 19'-21'
<u>TCL Volatiles</u>	✓	-	8	
<u>BNA</u>				
<u>TAL METALS</u>				} 3'-5' only
<u>CYANIDE</u>				
<u>STAINED SOIL :</u>				
<u>PCBs / PESTICIDES</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



# SAMPLE LOG SHEET

Page SB320: SB61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB4-123-03 Source Location SITE 4 SB 123

Sample Method: <u>SPLIT SPOON</u>	Composite Sample Data		
Depth Sampled: <u>3-5'</u>	Sample	Time	Color / Description
Sample Date & Time: <u>8-28-91 1706</u>			
Sampled By: <u>F. RAMSER</u>			
Signature(s): <i>Fred W. Ramser</i>			
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite			
	Sample Data		
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
	TAN-BROWN	SAND SOME SILT, GRAVEL TO CLAY DAMP	

Analysis	Taken?	Bottle ID #	CoC #	Notes
ROUTINE %				
TCL Volatiles	✓	-	8	} 3'-5' & 19'-21' } 3'-5' only
BNA	✓	16180-284	↓	
TAL Metals	✓	"	↓	
CYANIDE	✓	"	↓	
STAINED SOIL %				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				



# SAMPLE LOG SHEET

Page SB33 of 5841

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By JAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB-12319 Pt. 3 (P) Source Location SITE 1 SB 123

Sample Method: <u>SPLIT SPOON</u>		Composite Sample Data		
Depth Sampled: <u>19.5-21.5</u>	Sample	Time	Color / Description	
Sample Date & Time: <u>8-28-91 1237</u>			/	
Sampled By: <u>F. RAMSER</u>				
Signature(s): <i>Fred W. Ramser</i>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
Sample Data				
	Color <u>TAN-BROWN</u>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>SAND AND GRAVEL MOIST</u>		
Analysis	Taken?	Bottle ID #	Co-C #	Notes
<u>ROUTINE %</u>	<input checked="" type="checkbox"/>			} 3'-5' & 19'-21'
<u>TCL Volatiles</u>	<input checked="" type="checkbox"/>	-	8	
<u>BNA</u>				
<u>TAL METALS</u>				} 3'-5' only
<u>CYANIDE</u>				
<u>STAINED SOIL %</u>				
<u>PCBs / PESTICIDES</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



# SAMPLE LOG SHEET

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- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

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: <u>SPLIT SPOON</u>	Composite Sample Data			
Depth Sampled: <u>3'-5'</u>	Sample	Time	Color / Description	
Sample Date & Time: <u>8/28/91 1210</u>				
Sampled By: <u>AP</u>				
Signature(s): <u>[Signature]</u>		<u>NA</u>		
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite	Sample Data			
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)		
	<u>BLACK B...</u>	<u>(FILL) ORGANIC CLAY AND SAND &amp; GRAVEL</u>		
Analysis	Taken?	Bottle ID #	Co-C #	Notes
<u>ROUTINE %</u>	<input checked="" type="checkbox"/>			} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volat./es</u>	<input checked="" type="checkbox"/>	<u>D.7336-40 (3)</u>	<u>8</u>	
<u>BNA</u>	<input checked="" type="checkbox"/>	<u>05196106</u>	<u>↓</u>	
<u>TAL Metals</u>	<input checked="" type="checkbox"/>	<u>05196106</u>	<u>↓</u>	
<u>CYANIDE</u>	<input checked="" type="checkbox"/>	<u>"</u>	<u>↓</u>	
<u>STAINED SOIL %</u>	<input checked="" type="checkbox"/>			
<u>PCBs / PESTICIDES</u>	<input checked="" type="checkbox"/>	<u>05196106</u>	<u>8</u>	
<u>ENGINEERING PARAMETERS</u>	<input checked="" type="checkbox"/>			
<u>pH</u>	<input checked="" type="checkbox"/>	<u>2.3202</u>	<u>9</u>	
<u>TOC</u>	<input checked="" type="checkbox"/>	<u>3.1602</u>	<u>↓</u>	
<u>BULK DENSITY</u>	<input checked="" type="checkbox"/>	<u>—</u>	<u>↓</u>	
<u>GRAIN SIZE</u>	<input checked="" type="checkbox"/>	<u>—</u>	<u>↓</u>	
<u>MOISTURE CONTENT</u>	<input checked="" type="checkbox"/>	<u>—</u>	<u>↓</u>	





# SAMPLE LOG SHEET

Page SB35 of SB61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By RP

Project Site Name NWIRP BETHPAGE

Project Site Number 3281

NUS Source No. BP-SB-331619

Source Location Site 3 Boring 316

Sample Method: <u>SPLIT SPOON</u>	Composite Sample Data			
Depth Sampled: <u>19'-21'</u>	Sample	Time	Color / Description	
Sample Date & Time: <u>8/28/91 1225</u>				
Sampled By: <u>RP</u>		<u>na</u>		
Signature(s): <u>[Signature]</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite	Sample Data			
	Color <u>BROWN</u>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>COARSE-MEDIUM SAND</u>		
Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE :</u>	<input checked="" type="checkbox"/>			} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volatiles</u>	<input checked="" type="checkbox"/>	<u>B-7336-40 (3)</u>	<u>8</u>	
<u>BNA</u>				
<u>TAL METALS</u>				
<u>CYANIDE</u>				
<u>STAINED SOIL :</u>				
<u>PCBs / PESTICIDES</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



# SAMPLE LOG SHEET

Page SB36 of 5861

- 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-04-TB Source Location TRIP BLANK

Sample Method: <u>SEE NOTES</u> <u>SPLIT SCREEN</u>	Composite Sample Data		
Depth Sampled: <u>          </u>	Sample	Time	Color / Description
Sample Date & Time: <u>08-22-91</u>			
Sampled By: <u>TR / ORTEK</u>			
Signature(s): <u>[Signature]</u>		<u>N/A</u>	
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite			
	Sample Data		
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	

Analysis	Taken?	Bottle ID #	Co-C #	Notes
<u>ROUTINE %</u>	<u>✓</u>			} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volatiles</u>	<u>✓</u>	<u>N/A</u>	<u>#12</u>	
<u>BNA</u>				
<u>TAL METALS</u>				
<u>CYANIDE</u>				LAB PREPARED BLANK by ORTEK
<u>STAINED SOIL %</u>				
<u>PCBS / PESTICIDES</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



# SAMPLE LOG SHEET

Page 5837 of 5861

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By TR

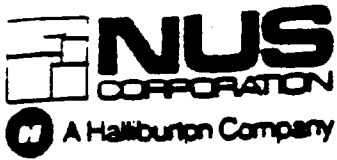
Project Site Name NWIRP BETHPAGE

Project Site Number 3281

NUS Source No. BP-SB-2-20503

Source Location S. 4 E 2 Boring 205

Sample Method: <u>SPLIT SPOON</u>	Composite Sample Data			
Depth Sampled: <u>3-5'</u>	Sample	Time	Color / Description	
Sample Date & Time: <u>8-28-91 1555</u>	N/A			
Sampled By: <u>F. RAMSEN</u>				
Signature(s): <u>Fred Ramsen</u>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
<b>Sample Data</b>				
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)		
	<u>LT BROWN</u>	<u>(COARSE-FINE SAND) WITH SOME GRAVEL TR SILT</u>		
Analysis	Taken?	Bottle ID #	Co/C #	Notes
<u>ROUTINE :</u>				} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volatiles</u>	✓	-	12	
<u>BNA</u>	✓	-	↓	
<u>TAL METALS</u>	✓	-	↓	
<u>CYANIDE</u>	✓	-	↓	
<u>STAINED SOIL :</u>				
<u>PCBs / Pesticides</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



# SAMPLE LOG SHEET

Page 5838 of 5861

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

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: <u>SPLIT SPOON</u>	Composite Sample Data		
Depth Sampled: <u>3-5</u>	Sample	Time	Color / Description
Sample Date & Time: <u>8-28-91 1820</u>			
Sampled By: <u>R. Paternite</u>			
Signature(s): <u>D. York For R. Paternite</u>			
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite			
	Sample Data		
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
	<u>BROWN</u>	<u>COARSE SAND AND GRAVEL</u>	

Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE %</u>				
<u>TCL Volatiles</u>	<u>✓</u>	<u>-</u>	<u>12</u>	} 3'-5' & 19'-21' } 3'-5' only
<u>BNA</u>	<u>✓</u>	<u>-</u>	<u>↓</u>	
<u>TAL METALS</u>	<u>✓</u>	<u>-</u>	<u>↓</u>	
<u>CYANIDE</u>	<u>✓</u>	<u>-</u>	<u>↓</u>	
<u>STAINED SOIL %</u>				
<u>PCBS / PESTICIDES</u>	<u>✓</u>	<u>-</u>	<u>12</u>	
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



# SAMPLE LOG SHEET

Page SB39 of SB61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB-2-21903 Source Location Site 2 Boring 219  
2 Duplicate

Sample Method: <u>SPLIT SPOON</u>	Composite Sample Data		
Depth Sampled: <u>21903</u>	Sample	Time	Color / Description
Sample Date & Time: <u>8/29/91 0730</u>			
Sampled By: <u>RP</u>			
Signature(s): <u>[Signature]</u>			
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite			
	Sample Data		
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
	<u>DRK Brown</u>	<u>SANDY CLAY / COARSE SAND</u>	

Analysis	Taken?	Bottle ID #	Co/C #	Notes
<b>ROUTINE :</b>				
TCL Volatiles	✓	B-7336-40 (3)	12	} 3'-5' & 19'-21' } 3'-5' only
BNA	✓	05196106		
TAL METALS	✓			
CYANIDE	✓			
<b>STAINED SOIL :</b>				
PCBs / Pesticides				
<b>ENGINEERING PARAMETERS</b>				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				



# SAMPLE LOG SHEET

Page SB40 of SB61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

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: <u>SPLIT SPOON</u>	Composite Sample Data			
Depth Sampled: <u>3-5'</u>	Sample	Time	Color / Description	
Sample Date & Time: <u>8-25-91 0730</u>	<i>N/A</i>			
Sampled By: <u>RP</u>				
Signature(s): <u>D.Y FOR R.P</u>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
<b>Sample Data</b>				
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)		
	<u>DARK BROWN</u>	<u>SANDY CLAY / COARSE SAND WITH GRAVEL</u>		
Analysis	Taken?	Bottle ID #	Co-C #	Notes
<u>ROUTINE %</u>	<input checked="" type="checkbox"/>			} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volat./es</u>	<input checked="" type="checkbox"/>	<u>B 7336-40</u>	<u>12</u>	
<u>BNA</u>	<input checked="" type="checkbox"/>	<u>05196106</u>		
<u>TAL METALS</u>	<input checked="" type="checkbox"/>	↓	↓	
<u>CYANIDE</u>	<input checked="" type="checkbox"/>	↓	↓	
<u>STAINED SOIL %</u>	<input type="checkbox"/>			
<u>PCBs / PESTICIDES</u>	<input type="checkbox"/>			
<u>ENGINEERING PARAMETERS</u>	<input type="checkbox"/>			
<u>pH</u>	<input type="checkbox"/>			
<u>TOC</u>	<input type="checkbox"/>			
<u>BULK DENSITY</u>	<input type="checkbox"/>			
<u>GRAIN SIZE</u>	<input type="checkbox"/>			
<u>MOISTURE CONTENT</u>	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			
	<input type="checkbox"/>			



SAMPLE LOG SHEET

Page 584 of 586

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By JAY

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: <i>SPLIT SPOON</i>	Composite Sample Data			
	Sample	Time	Color / Description	
Depth Sampled: <i>3-5'</i>			/	
Sample Date & Time: <i>8-29-91 0610</i>				
Sampled By: <i>F. RAMSER</i>				
Signature(s): <i>Fred Ramser</i>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
<b>Sample Data</b>				
Color <i>LT BROWN</i>		Description: (Sand, Clay, Dry, Moist, Wet, etc.) <i>SAND AND GRAVEL SOME SILT DAMP</i>		
Analysis	Taken?	Bottle ID #	C of C #	Notes
<del>ROUTINE %</del>	<del>✓</del>	<del>16180-784</del>	<del>11</del>	} 3'-5' & 19'-21' } 3'-5' Only
TCL Volatiles	✓	16180-784		
BNA	✓	"		
TAL METALS	✓	"		
CYANIDE	✓	"		
<del>STAINED SOIL %</del>	<del>✓</del>	<del>16180-784</del>	<del>11</del>	DUPLICATE SAMPLE TAKEN ON ENGINEERING PARAMETERS.
<del>PCBs / PESTICIDES</del>	<del>✓</del>	<del>16180-784</del>	<del>11</del>	
<del>ENGINEERING PARAMETERS</del>	<del>✓</del>	<del>16180-784</del>	<del>11</del>	
pH	✓	-	11	
TOC	✓	-	↓	
BULK DENSITY	✓	-	↓	
GRAIN SIZE	✓	-	↓	
MOISTURE CONTENT	✓	-	↓	



# SAMPLE LOG SHEET

Page SB4/A3 of SB61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By TK

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB-2-20403-D Source Location Site 2 Building 204

Sample Method: <u>SPLIT SPQW</u>	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: <u>3-5'</u>			/
Sample Date & Time: <u>8-29-91 0810</u>			
Sampled By: <u>FRANSEN</u>			
Signature(s): <u>Fred W. Roman</u>		<u>N/A</u>	
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite			
Sample Data			
Color <u>LT BROWN</u>		Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>SAND AND GRAVEL SOME SILT DAMP</u>	

Analysis	Taken?	Bottle ID #	Co-C #	Notes
<u>ROUTINE %</u>				} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volatiles</u>				
<u>BNA</u>				
<u>TAL METALS</u>				
<u>CYANIDE</u>				
<u>STAINED SOIL %</u>				
<u>PCBs / Pesticides</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>	✓	—	11	
<u>TOC</u>	✓	—	↓	
<u>BULK DENSITY</u>	✓	—		
<u>GRAIN SIZE</u>	✓	—		
<u>MOISTURE CONTENT</u>	✓	—		





**SAMPLE LOG SHEET**

Page SB42 of SB61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB-2-21803 Source Location SITE 2 Bldg 218

Sample Method: <u>SPLIT SPOON</u>		Composite Sample Data		
Depth Sampled:	Sample	Time	Color / Description	
<u>3'-5'</u>			/	
Sample Date & Time: <u>8/29/91 1020</u>				
Sampled By: <u>RP</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<u>black-brown</u>	<u>(COARSE SAND WITH GRAVEL</u>	
Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE :</u>				} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volatiles</u>	✓	<u>B7336-40 (3)</u>	12	
<u>BNA</u>	✓	<u>0596106</u>	?	
<u>TAL METALS</u>	✓	↓	↓	
<u>CYANIDE</u>	✓	↓	↓	
<u>STAINED SOIL :</u>				
<u>PCBs / PESTICIDES</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



**SAMPLE LOG SHEET**

Page SB43 of SB61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By DAY

Project Site Name NWIRP BETHPAGE

Project Site Number 3281

NUS Source No. BP-SB7-207-03

Source Location SITE 2 SB203

Sample Method: <u>SPLIT SPOON</u>	Composite Sample Data			
Depth Sampled: <u>3-5'</u>	Sample	Time	Color / Description	
Sample Date & Time: <u>8-29-91</u> <u>1150</u>			/	
Sampled By: <u>D. Yost</u>				
Signature(s): <u>D. Yost</u>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration				
<input type="checkbox"/> High Concentration				
<input checked="" type="checkbox"/> Grab				
<input type="checkbox"/> Composite				
<input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<u>LT. BROWN</u>	<u>SAND AND GRAVEL TR SILT DAMO</u>	
Analysis	Taken?	Bottle ID #	Co=C #	Notes
<u>ROUTINE %</u>	<input checked="" type="checkbox"/>			} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volatiles</u>	<input checked="" type="checkbox"/>		<u>12</u>	
<u>BNA</u>	<input checked="" type="checkbox"/>	<u>16180-284</u>	↓	
<u>TAL METALS</u>	<input checked="" type="checkbox"/>	"	↓	
<u>CYANIDE</u>	<input checked="" type="checkbox"/>	"		
<u>STAINED SOIL %</u>	<input checked="" type="checkbox"/>			
<u>PCBs / Pesticides</u>	<input checked="" type="checkbox"/>			
<u>ENGINEERING PARAMETERS</u>	<input checked="" type="checkbox"/>			
<u>PH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



SAMPLE LOG SHEET

Page SB44 of SB61

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB-2-21503 Source Location Site 2 Boring 215

Sample Method: <u>SPLIT SPOON</u>	Composite Sample Data		
Depth Sampled: <u>3'-5'</u>	Sample	Time	Color / Description
Sample Date & Time: <u>1250</u> <u>8/29/91 1308</u>			
Sampled By: <u>RP</u>			
Signature(s): <u>[Signature]</u>			
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite			
	Sample Data		
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
	<u>BROWN</u>	<u>ORGANICS WITH SAND - SAND IS COARSE</u>	

Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE :</u>	<u>/</u>			
<u>TCL Volatiles</u>	<u>/</u>	<u>B-7336-40(3)</u>	<u>12</u>	} 3'-5' & 19'-21' } 3'-5' only
<u>BNA</u>	<u>/</u>	<u>05196106</u>	↓	
<u>TAL METALS</u>	<u>/</u>	<u>05196106</u>	↓	
<u>CYANIDE</u>	<u>/</u>	↓	↓	
<u>STAINED SOIL :</u>				
<u>PCBs / PESTICIDES</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>PH</u>	<u>/</u>	—	<u>11</u>	
<u>TOC</u>	<u>/</u>	—	↓	
<u>BULK DENSITY</u>	<u>/</u>	—	↓	
<u>GRAIN SIZE</u>	<u>/</u>	—	↓	
<u>MOISTURE CONTENT</u>	<u>/</u>	—	↓	



# SAMPLE LOG SHEET

Page SB453: SB41

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

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: <i>SPLIT SPOON</i>	Composite Sample Data			
Depth Sampled: <i>19-21 ft</i>	Sample	Time	Color / Description	
Sample Date & Time: <i>8/29/01 13081250</i>				
Sampled By: <i>RP</i>				
Signature(s): <i>[Signature]</i>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite	Sample Data			
	Color <i>BROWN</i>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <i>MEDIUM-COARSE SAND WITH GRAVEL</i>		
Analysis	Taken?	Bottle ID #	C of C #	Notes
<del>ROUTINE %</del>	<del> </del>	<del> </del>	<del> </del>	} 3'-5' & 19'-21' } 3'-5' Only
TCL Volatiles	<i>✓</i>	<i>D7336-40 (3)</i>	<i>12</i>	
BNA				
TAL METALS				
CYANIDE				
<del>STAINED SOIL %</del>	<del> </del>	<del> </del>	<del> </del>	
<del>PCBS / PESTICIDES</del>	<del> </del>	<del> </del>	<del> </del>	
<del>ENGINEERING PARAMETERS</del>	<del> </del>	<del> </del>	<del> </del>	
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				



**SAMPLE LOG SHEET**

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other RINSATE BLANK

Page SB96 of 561

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: <u>RAW Steam distilled</u> <u>PLD OVER S.S.</u> <del>SPLIT SPOON TRUNC</del>		<b>Composite Sample Data</b>		
Depth Sampled: <u>                    </u>	<b>Sample</b>	<b>Time</b>	<b>Color / Description</b>	
Sample Date & Time: <u>08-29-91</u> <u>1400</u>			<div style="font-size: 4em; opacity: 0.5;">/</div>	
Sampled By: <u>TR</u>				
Signature(s): 				
<b>Type of Sample</b> <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
<b>Sample Data</b>		<b>Color</b>		
<b>Analysis</b>	<b>Taken?</b>	<b>Bottle ID #</b>	<b>Co/C #</b>	<b>Notes</b>
<u>ROUTINE %</u>	<input checked="" type="checkbox"/>	<u>                    </u>	<u>                    </u>	} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volatiles</u>	<input checked="" type="checkbox"/>	<u>                    </u>	<u>12</u>	
<u>BNA</u>	<input checked="" type="checkbox"/>	<u>N/A</u>	↓	
<u>TAL METALS</u>	<input checked="" type="checkbox"/>	<u>N/A</u>	↓	
<u>CYANIDE</u>	<input checked="" type="checkbox"/>	<u>N/A</u>		
<u>STAINED SOIL %</u>	<input checked="" type="checkbox"/>	<u>                    </u>	<u>                    </u>	Steam Distilled H <sub>2</sub> O Lit # 13091
<u>PCBs / Pesticides</u>	<input checked="" type="checkbox"/>	<u>                    </u>	<u>                    </u>	
<u>ENGINEERING PARAMETERS</u>	<input checked="" type="checkbox"/>	<u>                    </u>	<u>                    </u>	
<u>pH</u>	<input type="checkbox"/>	<u>                    </u>	<u>                    </u>	
<u>TOC</u>	<input type="checkbox"/>	<u>                    </u>	<u>                    </u>	
<u>BULK DENSITY</u>	<input type="checkbox"/>	<u>                    </u>	<u>                    </u>	
<u>GRAIN SIZE</u>	<input type="checkbox"/>	<u>                    </u>	<u>                    </u>	
<u>MOISTURE CONTENT</u>	<input type="checkbox"/>	<u>                    </u>	<u>                    </u>	



**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-2225-03 Source Location SITE 2 SB 225

Sample Method: <u>SPLIT SPOON</u>		Composite Sample Data		
Depth Sampled: <u>3-5'</u>		Sample	Time	Color / Description
Sample Date & Time: <u>8-29-91</u> <u>1415</u>				
Sampled By: <u>F. RAMSER</u>				
Signature(s): <u>F. Ramsor</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<u>REDDISH BR.</u>	<u>SAND AND GRAVEL DAMP</u>	
Analysis	Taken?	Bottle ID #	Co-C #	Notes
<u>ROUTINE :</u>	<input checked="" type="checkbox"/>			} 3'-5' & 19'-21' } 3'-5' Only
<u>TCL Volat./es</u>	<input checked="" type="checkbox"/>		<u>12</u>	
<u>BNA</u>	<input checked="" type="checkbox"/>	<u>VOL-284</u>	↓	
<u>TAL METALS</u>	<input checked="" type="checkbox"/>			
<u>CYANIDE</u>	<input checked="" type="checkbox"/>			
<u>STAINED SOIL :</u>				
<u>PCBS / PESTICIDES</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>PH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



# SAMPLE LOG SHEET

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- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

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: <u>SPLIT SPOON</u>	Composite Sample Data			
Depth Sampled: <u>3-5'</u>	Sample	Time	Color / Description	
Sample Date & Time: <u>8/29/91 1507</u>				
Sampled By: <u>RP</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite	Sample Data			
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)		
	<u>Yellow Green</u>	<u>medium to coarse sand with gravel</u>		
Analysis	Taken?	Bottle ID #	CoC #	Notes
ROUTINE %				} 3'-5' & 19'-21' } 3'-5' only
TCL Volatiles	✓	<u>B-7336-40 (3)</u>	12	
BNA	✓	<u>05196106</u>	↓	
TAL METALS	✓	<u>05196106</u>	↓	
CYANIDE		"		
STAINED SOIL %				
PCBs / Pesticides				
ENGINEERING PARAMETERS				
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				



**SAMPLE LOG SHEET**

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- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon/Pond
- Other Potable H<sub>2</sub>O

Case #           

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB-01-PW1 Source Location Potable H<sub>2</sub>O

Sample Method: <u>direct from Hydrate</u> <u>SPLIT SPOON</u>	Composite Sample Data		
	Sample	Time	Color/Description
Depth Sampled: <u>          </u>			
Sample Date & Time: <u>8/29/91 1537</u>			
Sampled By: <u>TR</u>			
Signature(s): <u>[Signature]</u>			
Type of Sample	<u>N/A</u>		
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite			
	Sample Data		
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	

Analysis	Taken?	Bottle ID #	Co=C #	Notes
<u>ROUTINE %</u>	<input checked="" type="checkbox"/>	<u>          </u>	<u>          </u>	} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volat./Gs</u>	<input checked="" type="checkbox"/>	<u>          </u>	<u>12</u>	
<u>BNA</u>	<input checked="" type="checkbox"/>	<u>          </u>	<u>          </u>	
<u>TAL METALS</u>	<input checked="" type="checkbox"/>	<u>          </u>	<u>          </u>	
<u>CYANIDE</u>	<input checked="" type="checkbox"/>	<u>          </u>	<u>          </u>	Potable down water used by drillers from public Hydrate (red & white), just outside NE Gate, adjacent to BLDG #24.
<u>STAINED SOIL %</u>	<input checked="" type="checkbox"/>	<u>          </u>	<u>          </u>	
<u>PCBs / PESTICIDES</u>	<input checked="" type="checkbox"/>	<u>          </u>	<u>          </u>	
<u>ENGINEERING PARAMETERS</u>	<input checked="" type="checkbox"/>	<u>          </u>	<u>          </u>	
<u>pH</u>	<input type="checkbox"/>	<u>          </u>	<u>          </u>	
<u>TOC</u>	<input type="checkbox"/>	<u>          </u>	<u>          </u>	
<u>BULK DENSITY</u>	<input type="checkbox"/>	<u>          </u>	<u>          </u>	
<u>GRAIN SIZE</u>	<input type="checkbox"/>	<u>          </u>	<u>          </u>	
<u>MOISTURE CONTENT</u>	<input type="checkbox"/>	<u>          </u>	<u>          </u>	
<u>          </u>	<input type="checkbox"/>	<u>          </u>	<u>          </u>	





# 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-05-7B Source Location TRIP BLANK

Sample Method: LAB PREPARED  
SPLIT SPOON

**Composite Sample Data**

Sample	Time	Color / Description
--------	------	---------------------

Depth Sampled:           

Sample Date & Time: 8-26-91

Sampled By: TR / ORTECK

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 #	Co/C #	Notes
ROUTINE %	<input checked="" type="checkbox"/>			} 3'-5' & 19'-21' } 3'-5' only
TCL Volatiles	<input checked="" type="checkbox"/>	N/A	#15	
BNA				
TAL METALS				
CYANIDE				ORTEL PREPARED TRIP BLANK
STAINED SOIL %	<input checked="" type="checkbox"/>			
PCBs / PESTICIDES	<input checked="" type="checkbox"/>			
ENGINEERING PARAMETERS	<input checked="" type="checkbox"/>			
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				



# SAMPLE LOG SHEET

Page 585 of 586

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB3307-03 Source Location SITE 3 S/SCT

Sample Method: <u>SPLIT SPOON</u>		Composite Sample Data		
Depth Sampled: <u>3-5</u>	Sample	Time	Color/Description	
Sample Date & Time: <u>8-29-71 1678</u>	<div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; background: linear-gradient(to top right, transparent 49%, black 49%, black 51%, transparent 51%);"></div>			
Sampled By: <u>F. RAMSER</u>				
Signature(s): <i>Fred W. Ramser</i>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<u>LT BROWN</u>	<u>SAND AND GRAVEL Damp</u>	
Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE ?</u>	<input checked="" type="checkbox"/>	<u>                    </u>	<u>                    </u>	} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volat./es</u>	<input checked="" type="checkbox"/>	<u>                    </u>	<u>15</u>	
<u>BNA</u>	<input checked="" type="checkbox"/>	<u>                    </u>	<u>                    </u>	
<u>TAL METALS</u>	<input checked="" type="checkbox"/>	<u>                    </u>	<u>                    </u>	
<u>CYANIDE</u>	<input checked="" type="checkbox"/>	<u>                    </u>	<u>                    </u>	
<u>STAINED SOIL ?</u>	<input checked="" type="checkbox"/>	<u>                    </u>	<u>                    </u>	
<u>PCBS / PESTICIDES</u>	<input checked="" type="checkbox"/>	<u>                    </u>	<u>                    </u>	
<u>ENGINEERING PARAMETERS</u>	<input checked="" type="checkbox"/>	<u>                    </u>	<u>                    </u>	
<u>pH</u>	<input type="checkbox"/>	<u>                    </u>	<u>                    </u>	
<u>TOC</u>	<input type="checkbox"/>	<u>                    </u>	<u>                    </u>	
<u>BULK DENSITY</u>	<input type="checkbox"/>	<u>                    </u>	<u>                    </u>	
<u>GRAIN SIZE</u>	<input type="checkbox"/>	<u>                    </u>	<u>                    </u>	
<u>MOISTURE CONTENT</u>	<input type="checkbox"/>	<u>                    </u>	<u>                    </u>	
	<input type="checkbox"/>	<u>                    </u>	<u>                    </u>	
	<input type="checkbox"/>	<u>                    </u>	<u>                    </u>	
	<input type="checkbox"/>	<u>                    </u>	<u>                    </u>	
	<input type="checkbox"/>	<u>                    </u>	<u>                    </u>	



**SAMPLE LOG SHEET**

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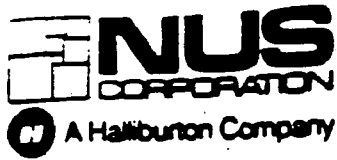
- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

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: <u>SPLIT SPOON</u>		Composite Sample Data		
		Sample	Time	Color / Description
Depth Sampled: <u>19-21'</u>				
Sample Date & Time: <u>8-29-91 1700</u>				
Sampled By: <u>F. RAMSER</u>				
Signature(s): <i>Fred Ramser</i>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
		<u>LT Brown</u>	<u>SAND AND GRAVEL DAMP</u>	
Analysis	Taken?	Bottle ID #	Co/C #	Notes
<u>ROUTINE %</u>	<input checked="" type="checkbox"/>			} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volatiles</u>	<input checked="" type="checkbox"/>		<u>15</u>	
<u>BNA</u>				
<u>TAL METALS</u>				
<u>CYANIDE</u>				
<u>STAINED SOIL %</u>				
<u>PCBs / Pesticides</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



SAMPLE LOG SHEET

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- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB-2-20603 Source Location Area 2 Boring 206

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

Analysis	Taken?	Bottle ID #	CoC #	Notes
ROUTINE %	<input checked="" type="checkbox"/>			} 3'-5' & 19'-21' } 3'-5' only
TCL Volat./es	<input checked="" type="checkbox"/>	<u>B-7336-40(3)</u>	<u>15</u>	
BNA	<input checked="" type="checkbox"/>	<u>05196106</u>		
TAL METALS	<input checked="" type="checkbox"/>	<u>05196105</u>		
CYANIDE	<input checked="" type="checkbox"/>	<u>↓</u>	<u>↓</u>	
STAINED SOIL %	<input checked="" type="checkbox"/>			
PCBS / PESTICIDES	<input checked="" type="checkbox"/>			
ENGINEERING PARAMETERS	<input checked="" type="checkbox"/>			
pH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				



# SAMPLE LOG SHEET

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- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

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: <u>SPLIT SPOON</u>	Composite Sample Data			
Depth Sampled: <u>3'-5'</u>	Sample	Time	Color / Description	
Sample Date & Time: <u>8-29-91 1413</u>			/	
Sampled By: <u>R Patercity</u>				
Signature(s): <u>D. [Signature] FOR R. Patercity</u>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
<b>Sample Data</b>				
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)		
	<u>GRAY-BROWN</u>	<u>COARSE SAND WITH GRAVEL</u>		
Analysis	Taken?	Bottle ID #	Co/C #	Notes
<u>ROUTINE %</u>				} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volatiles</u>	✓	<u>B 7336-40</u>	15	
<u>BNA</u>	✓	<u>05146106</u>	↓	
<u>TAL METALS</u>	✓	↓	↓	
<u>CYANIDE</u>	✓	↓	↓	
<u>STAINED SOIL %</u>				
<u>PCBs / PESTICIDES</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



# SAMPLE LOG SHEET

Page 5855 of 5861

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB-2-21703 Source Location Site 2 Bury 217

Sample Method: <u>SPLIT SPOON</u>		Composite Sample Data			
Depth Sampled: <u>3'-5'</u>	Sample	Time	Color / Description		
Sample Date & Time: <u>8/29/91 1837</u>			/		
Sampled By: <u>RP</u>					
Signature(s): <u>[Signature]</u>					
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite	Sample Data				
	Color <u>brown</u>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>MED. UM - COARSE SAND SOME ORGANICS</u>			
Analysis	Taken?	Bottle ID #	Co/C #	Notes	
<u>ROUTINE :</u>	<u>/</u>			} 3'-5' & 19'-21' 3'-5' only	
<u>TCL Volat./es</u>	<u>/</u>	<u>B-7336-40(3)</u>	<u>15</u>		
<u>BNA</u>	<u>/</u>	<u>05196106</u>	↓		
<u>TAL METALS</u>	<u>/</u>	<u>05196105</u>	↓		
<u>CYANIDE</u>	<u>/</u>	↓	↓		
<u>STAINED SOIL :</u>					
<u>PCBs / PESTICIDES</u>					
<u>ENGINEERING PARAMETERS</u>					
<u>pH</u>					
<u>TOC</u>					
<u>BULK DENSITY</u>					
<u>GRAIN SIZE</u>					
<u>MOISTURE CONTENT</u>					



**SAMPLE LOG SHEET**

Page SB56 of 5661

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

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: <u>SPLIT SPOON</u>	Composite Sample Data			
Depth Sampled: <u>3.5 FT</u>	Sample	Time	Color / Description	
Sample Date & Time: <u>8/30/91 0820</u>	/			
Sampled By: <u>RP</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
<b>Sample Data</b>				
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)		
	<u>WB WHITE-SS</u>	<u>COARSE SAND SOME GRAVEL</u>		
Analysis	Taken?	Bottle ID #	C of C #	Notes
<u>ROUTINE :</u>				} 3'-5' & 19'-21' } 3'-5' Only
<u>TCL Volatiles</u>	/	<u>6-7336-40</u>	15	
<u>BNA</u>	/	<u>05196106</u>	↓	
<u>TAL METALS</u>	/	<u>05196106</u>	↓	
<u>CYANIDE</u>		↓	↓	
<u>STAINED SOIL :</u>				
<u>PCBS / PESTICIDES</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>PH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



# SAMPLE LOG SHEET

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- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By FRED W. RAMSER

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-5B332803-MS Source Location SITE 328 SB 328

Sample Method: <u>SPLIT SPOON</u>	Composite Sample Data		
Depth Sampled: <u>3' to 5'</u>	Sample	Time	Color / Description
Sample Date & Time: <u>8-30-91 0820 HRS</u>	<div style="position: relative; height: 100px;"> <span style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; border-left: 1px solid black; border-right: 1px solid black; border-bottom: 1px solid black;"></span> </div>		
Sampled By: <u>FRED W. RAMSER</u>			
Signature(s): <u>Fred W. Ramser</u>			
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite			
Sample Data			
Color <u>BLK</u>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>SILTY SANDY CLAY TR GRAVEL (FILL) MOIST</u>		

Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE :</u>				} 3'-5' & 19'-21' 3'-5' only
<u>TCL Volat./es</u>	✓	—	15	
<u>BNA</u>	✓	—	↓	
<u>TAL METALS</u>	✓	—	↓	
<u>CYANIDE</u>	✓	—	↓	
<u>STAINED SOIL :</u>				
<u>PCBs / PESTICIDES</u>	✓	—	15	
<u>ENGINEERING PARAMETERS</u>				
<u>PH</u>	✓	—	13	
<u>TOC</u>	✓	—	↓	
<u>BULK DENSITY</u>	✓	—	↓	
<u>GRAIN SIZE</u>	✓	—	↓	
<u>MOISTURE CONTENT</u>	✓	—	↓	





SAMPLE LOG SHEET

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- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By FK

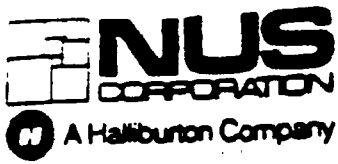
Project Site Name NWIRP BETHPAGE

Project Site Number 3281

NUS Source No. BP-SB3328-19

Source Location SITE 3, SB 328

Sample Method:	Composite Sample Data			
<u>SPLIT SPOON</u>	Sample	Time	Color / Description	
Depth Sampled: <u>19' to 21'</u>			/	
Sample Date & Time: <u>8-30-91 0830HRS</u>				
Sampled By: <u>FRED W. RAMSER</u>				
Signature(s): <u>Fred W. Ramser</u>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration				
<input type="checkbox"/> High Concentration				
<input checked="" type="checkbox"/> Grab				
<input type="checkbox"/> Composite				
<input type="checkbox"/> Grab - Composite				
	Sample Data			
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)		
	<u>LT-BROWN</u>	<u>FINE TO COARSE SAND AND GRAVELS, MOIST</u>		
Analysis	Taken?	Bottle ID #	CoC #	Notes
<u>ROUTINE %</u>	<u>✓</u>	<u>-</u>	<u>15</u>	} 3'-5' & 19'-21' } 3'-5' only
<u>TCL Volat./os</u>	<u>✓</u>			
<u>BNA</u>				
<u>TAL METALS</u>				
<u>CYANIDE</u>				
<u>STAINED SOIL %</u>				
<u>PCBs / PESTICIDES</u>				
<u>ENGINEERING PARAMETERS</u>				
<u>pH</u>				
<u>TOC</u>				
<u>BULK DENSITY</u>				
<u>GRAIN SIZE</u>				
<u>MOISTURE CONTENT</u>				



**SAMPLE LOG SHEET**

Page SB 59 of 506

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB2709-03 Source Location SITE 2 SB 209

Sample Method: <u>SPLIT SPOON</u>	Composite Sample Data			
Depth Sampled: <u>3-5'</u>	Sample	Time	Color / Description	
Sample Date & Time: <u>8-30-91 1145</u>	/			
Sampled By: <u>F. RAMSER</u>				
Signature(s): <i>Fred Ramser</i>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
Sample Data				
Color <u>REDDISH BROWN</u>		Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>SAND AND GRAVEL DAMP</u>		
Analysis	Taken?	Bottle ID #	Co/C #	Notes
ROUTINE %	/			} 3'-5' & 19'-21' 3'-5' only
TCL Volatiles	/		15	
BNA	/			
TAL METALS	/			
CYANIDE	/			
STAINED SOIL %	/			
PCBs / Pesticides	/			
ENGINEERING PARAMETERS	/			
PH				
TOC				
BULK DENSITY				
GRAIN SIZE				
MOISTURE CONTENT				



**SAMPLE LOG SHEET**

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- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other Rinsate

Case #           

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SB-03-RB Source Location Rinsate Bank

Sample Method: <u>SEE NOTES</u> <u>SPLIT SPOON</u>		Composite Sample Data		
Depth Sampled:	Sample	Time	Color / Description	
Sample Date & Time: <u>8-30-91 12:00</u>			N/A	
Sampled By: <u>TR</u>				
Signature(s): 				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
		Sample Data		
		Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	
Analysis	Taken?	Bottle ID #	Co/C #	Notes
<u>ROUTINE :</u>	<input checked="" type="checkbox"/>	<u>          </u>	<u>          </u>	} 3'-5' & 19'-21' } 3'-5' only Steam distilled H <sub>2</sub> O 2.0L 13091 poured over S.S. trowel
<u>TCL Volatiles</u>	<input checked="" type="checkbox"/>	<u>          </u>	<u>15</u>	
<u>BNA</u>	<input checked="" type="checkbox"/>	<u>N/A</u>	<u>          </u>	
<u>TAL METALS</u>	<input checked="" type="checkbox"/>	<u>          </u>	<u>          </u>	
<u>CYANIDE</u>	<input checked="" type="checkbox"/>	<u>          </u>	<u>          </u>	
<u>STAINED SOIL :</u>	<input checked="" type="checkbox"/>	<u>          </u>	<u>          </u>	
<u>PCBS / PESTICIDES</u>	<input checked="" type="checkbox"/>	<u>          </u>	<u>          </u>	
<u>ENGINEERING PARAMETERS</u>	<input checked="" type="checkbox"/>	<u>          </u>	<u>          </u>	
<u>PH</u>	<input type="checkbox"/>	<u>          </u>	<u>          </u>	
<u>TOC</u>	<input type="checkbox"/>	<u>          </u>	<u>          </u>	
<u>BULK DENSITY</u>	<input type="checkbox"/>	<u>          </u>	<u>          </u>	
<u>GRAIN SIZE</u>	<input type="checkbox"/>	<u>          </u>	<u>          </u>	
<u>MOISTURE CONTENT</u>	<input type="checkbox"/>	<u>          </u>	<u>          </u>	
	<input type="checkbox"/>	<u>          </u>	<u>          </u>	
	<input type="checkbox"/>	<u>          </u>	<u>          </u>	
	<input type="checkbox"/>	<u>          </u>	<u>          </u>	
	<input type="checkbox"/>	<u>          </u>	<u>          </u>	
	<input type="checkbox"/>	<u>          </u>	<u>          </u>	



SAMPLE LOG SHEET

Page SBG1 of SBG1

- Surface Soil TR
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other Potable H<sub>2</sub>O

Case #           

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-BS BP-SB-02-PW Source Location Potable H<sub>2</sub>O / DAYS INN

Sample Method: <u>Potable</u> <u>SS TAP</u> WATER	Composite Sample Data		
Depth Sampled: <u>1-6" (TR)</u>	Sample	Time	Color / Description
Sample Date & Time: <u>9/10/91</u> <u>1130</u>			
Sampled By: <u>TR</u>			
Signature(s): <u>[Signature]</u>			
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite			
	Sample Data		
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)	

Analysis	Taken?	Bottle ID #	Co/C #	Notes
<u>ROUTINE 3</u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>Outside Tap</u> <u>By Pool.</u>
<u>TCL VOLATILES</u>	<u>✓</u>	<u>81162-1</u>	<u>#20</u>	
<u>TCL BNA</u>	<u>✓</u>	<u>—</u>	<u>↓</u>	
<u>TAL METALS</u>	<u>✓</u>	<u>—</u>	<u>↓</u>	
<u>CYANIDE</u>	<u>✓</u>	<u>—</u>	<u>↓</u>	
<u>STAINED SOIL 3</u>	<u>          </u>	<u>          </u>	<u>          </u>	
<u>TCL PCBs/PESTICIDES</u>	<u>✓</u>	<u>—</u>	<u>↓</u>	

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**B.2**

**MONITORING WELLS - TEMPORARY AND PERMANENT**

**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	↓		G 26
BP-G-328	08-30-91	↓	G 27





# SAMPLE LOG SHEET

Page G1 of G29

- <sup>TEMPORARY</sup> Monitoring Well Data
- Domestic Well Data
- Other \_\_\_\_\_

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: <u>49.5</u>		Purge Data				
Well Casing Size & Depth: <u>2" @ 49.5'</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>42.5'</u>						
One Casing Volume: <u>NA</u>						
Start Purge (hrs.): <u>1315</u>						
End Purge (hrs.): <u>1325</u>						
Total Purge Time (min.): <u>10</u>						
Total Amount Purged (gal.): <u>394 l</u>						
Monitor Reading: _____						
Purge Method: <u>SS BILLED</u>						
Sample Method: <u>SS BILLED</u>						
Depth Sampled: <u>43'</u>						
Sample Date & Time: <u>8/26/91 1330</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>TR</u>		<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Brown High</u>	
Signature(s): <u>Tony Ayala</u>		Type of Sample : <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Low Concentration <input type="checkbox"/> Composite <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab - Composite				
Analysis	Preservative	Taken?	Bottle ID#	CoFC #	Notes	
<u>TCL VOLATILES</u>	<u>HCL 10 PH 4.2 Cool to 4°C</u>	<input checked="" type="checkbox"/>		<u>#2</u>		





# 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-113

Source Location S.1c-1

Total Well Depth: <u>49'</u>		Purge Data			
Well Casing Size & Depth: <u>2" Q</u>	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>NA</u>					
One Casing Volume: <u>NA</u>	<u>6.22</u>				<u>Brown/yellow</u>
Start Purge (hrs.): <u>1415</u>					<u>high, turbid</u>
End Purge (hrs.): <u>1430</u>					
Total Purge Time (min.): <u>15</u>					<u>well bailed</u>
Total Amount Purged (gal.): <u>6.22</u>					<u>dry - was allowed</u>
Monitor Reading: <u>no elevated</u> <u>HWD readings</u>					<u>to recharge</u>
Purge Method: <u>Hand Bail</u>					<u>to 44 1/2 FT.</u>
Sample Method: <u>SS BAILER</u>					
Depth Sampled: <u>46 feet</u>					
Sample Date & Time: <u>8-26-91</u> <u>1458</u>		Sample Data			
Sampled By: <u>RP</u>	pH	S.C.	Temp. (°C)	Color & Turbidity	
Signature(s): <u>[Signature]</u>	<u>N/A</u>				
		Type of Sample:		<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab-Composite	
		<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration			
Analysis	Preservative	Taken?	Bottle ID#	CoFC #	Notes
<u>TCL VOLATILES</u>	<u>HCL: PH 5.2</u> <u>Temp 26.9°C</u>	<u>✓</u>	<u>2-1074-03</u>	<u>#2</u>	



# SAMPLE LOG SHEET

Page G3 of G29

- 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-103 Source Location 5A-1

Total Well Depth: <u>48'</u>		Purge Data				
Well Casing Size & Depth: <u>2" at 48'</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>43.0'</u>						
One Casing Volume:						
Start Purge (hrs.): <u>1636</u>						
End Purge (hrs.): <u>1654</u>						
Total Purge Time (min.): <u>18</u>						
Total Amount Purged (gal.): <u>3</u>						
Monitor Reading:						
Purge Method: <u>SS BAILER</u>						
Sample Method: <u>SS BAILER</u>						
Depth Sampled: <u>44</u>						
Sample Date & Time: <u>8-26-91 1654</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>FRED RAMSER</u>		<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>BROWN TURBID</u>	
Signature(s): <u>Fred Ramser</u>		Type of Sample : <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
Analysis	Preservative	Taken?	Bottle ID#	COFC #	Notes	
<u>TCL VOLATILES</u>	<u>HCL 1% PH 2.2</u> <u>COOL 25°C</u>	<u>✓</u>		<u># 3</u>		



# SAMPLE LOG SHEET

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- 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-111-111

Source Location Site 1

Total Well Depth:		Purge Data				
Well Casing Size & Depth: <u>8 PVC 52 FT</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>45.5 FT</u>						
One Casing Volume: <u>4.6 L</u>						
Start Purge (hrs.): <u>1725</u>						
End Purge (hrs.): <u>1745</u>						
Total Purge Time (min.): <u>20</u>						
Total Amount Purged (gal.): <u>18 L</u>						
Monitor Reading: <u>NW 6 ppm (back= 3ppm)</u>						
Purge Method: <u>Hand Bail</u>						
Sample Method: <u>Direct pour</u>						
Depth Sampled: <u>45.5-52 FT</u>						
Sample Date & Time: <u>8/26/91 1745</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>RP</u>		<u>N/A</u>				
Signature(s): <u>RP</u>		Type of Sample : <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Low Concentration <input type="checkbox"/> Composite <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab - Composite				

Analysis	Preservative	Taken?	Bottle ID#	CoFC #	Notes
TCL VOLATILES	HCL: PH 5.2 Cool 4-8°C	✓		#3	



# SAMPLE LOG SHEET

Page 65 of 627

- <sup>TEMPORARY</sup> Monitoring Well Data
- Domestic Well Data
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By DAY

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-G-112 Source Location Site 1

Total Well Depth: <u>51'</u>		Purge Data				
Well Casing Size & Depth: <u>2" @ 51'</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>45.5'</u>						
One Casing Volume:						
Start Purge (hrs.): <u>1937</u>						
End Purge (hrs.): <u>1947</u>						
Total Purge Time (min.): <u>10</u>						
Total Amount Purged (gal.): <u>3 gal</u>						
Monitor Reading:						
Purge Method: <u>SS BAILER</u>						
Sample Method: <u>SS BAILER</u>						
Depth Sampled: <u>46</u>						
Sample Date & Time: <u>8-26-91</u> <u>1947</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>FRED RAMSER</u>		<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>BROWN TURBID</u>	
Signature(s): <u>Fred Ramser</u>		Type of Sample : <input checked="" type="checkbox"/> Grab <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> Composite <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab - Composite				
Analysis	Preservative	Taken?	Bottle ID#	Co/C #	Notes	
<u>TCL VOLATILES</u>	<u>HCL 1. PH 5.2</u> <u>20ml @ 4°C</u>	<input checked="" type="checkbox"/>		<u>#3</u>		



**SAMPLE LOG SHEET**

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- <sup>TEMPORARY</sup> 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-114 Source Location Site 1

Total Well Depth: <u>51.5</u>		<b>Purge Data</b>				
Well Casing Size & Depth: <u>2" @ 51.5</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>4ft</u>						
One Casing Volume: <u>0.6 GAL</u>						
Start Purge (hrs.):						
End Purge (hrs.):						
Total Purge Time (min.):						
Total Amount Purged (gal.): <u>BAILED 40X</u>						
Monitor Reading:						
Purge Method: <u>SS-BALER</u>						
Sample Method: <u>SS-BALER</u>						
Depth Sampled: <u>49.5</u>						
Sample Date & Time: <u>8/27/91 0915</u>		<b>Sample Data</b>				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>RP</u>		<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	
Signature(s): <u>NY FOR R.P.</u>		Type of Sample : <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Low Concentration <input type="checkbox"/> Composite <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab - Composite				

Analysis	Preservative	Taken?	Bottle ID#	CoFC #	Notes
<u>TCL VOLATILES</u>	<u>HCL - PH 5.2 COOL TO 5°C</u>	<u>✓</u>		<u>#3</u>	



# SAMPLE LOG SHEET

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- 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-115 Source Location SITE 1 TEMPORARY WELL 115

Total Well Depth: <u>52'</u>		Purge Data				
Well Casing Size & Depth: <u>2" @ 52'</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>46'</u>						
One Casing Volume:						
Start Purge (hrs.): <u>1033</u>						
End Purge (hrs.): <u>1045</u>						
Total Purge Time (min.): <u>12</u>						
Total Amount Purged (gal.): <u>3.5</u>						
Monitor Reading:						
Purge Method: <u>SS BAILER</u>						
Sample Method: <u>SS BAILER</u>						
Depth Sampled: <u>47'</u>						
Sample Date & Time: <u>8-27-91</u> <u>1045</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>FRED RAMSER</u>		<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>BROWN / TURBID</u>	
Signature(s): <u>Fred Ramser</u>		Type of Sample:		<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration		
Analysis	Preservative	Taken?	Bottle ID #	Co/C #	Notes	
<u>TCL VOLATILES</u>	<u>HC11% PH 2</u> <u>cool to 4°C</u>	<input checked="" type="checkbox"/>	<u>Z-1074-03</u>	<u>#3</u>		



# SAMPLE LOG SHEET

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- 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-338 Source Location site 3

Total Well Depth: <u>56'</u>		Purge Data				
Well Casing Size & Depth: <u>2" @ 56'</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>54.5</u>						
One Casing Volume: <u>2 gal</u>						
Start Purge (hrs.): <u>NA</u>						
End Purge (hrs.): <u>NA</u>						
Total Purge Time (min.): <u>NA</u>						
Total Amount Purged (gal.): <u>NA</u>						
Monitor Reading: <u>NA</u>						
Purge Method: <u>DS BAILER</u>						
Sample Method: <u>SS BAILER</u>						
Depth Sampled: <u>55'</u>						
Sample Date & Time: <u>8/27/91 1245</u>		Sample Data				
Sampled By: <u>RP</u>		pH	S.C.	Temp. (°C)	Color & Turbidity	
Signature(s): <u>D-Y FOR R.P.</u>		<u>NA</u>	<u>NA</u>	<u>N.A.</u>	<u>NA</u>	
		Type of Sample :		<input checked="" type="checkbox"/> Grab		
		<input checked="" type="checkbox"/> Low Concentration		<input type="checkbox"/> Composite		
		<input type="checkbox"/> High Concentration		<input type="checkbox"/> Grab - Composite		

Analysis	Preservative	Taken?	Bottle ID#	CoFC #	Notes
<u>TCL VOLATILES</u>	<u>HCL: PH 4.2 Temp: 5.8°C</u>	<input checked="" type="checkbox"/>		<u>#3</u>	



# SAMPLE LOG SHEET

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- 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-334

Source Location S.7E S 3 B 334

Total Well Depth: <u>57'</u>		Purge Data				
Well Casing Size & Depth: <u>2" @ 57'</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>50.5'</u>						
One Casing Volume:						
Start Purge (hrs.): <u>1410</u>						
End Purge (hrs.): <u>1430</u>						
Total Purge Time (min.): <u>20</u>						
Total Amount Purged (gal.): <u>3.56L</u>						
Monitor Reading:						
Purge Method: <u>SS BALLER</u>						
Sample Method: <u>SS BALLER</u>						
Depth Sampled: <u>51'</u>						
Sample Date & Time: <u>8-27-91 1430</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>FRED RAMSER</u>		<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>BROWN TURBID</u>	
Signature(s): <u>Fred Ramsler</u>		Type of Sample : <input checked="" type="checkbox"/> Grab <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> Composite <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab - Composite				
Analysis	Preservative	Taken?	Bottle ID#	Co/C #	Notes	
<u>TCL VOLATILES</u>	<u>HCL: PH 2.2 TEMP 25.9°C</u>	<input checked="" type="checkbox"/>	<u>Z-1074-03</u>	<u>#3</u>		





# SAMPLE LOG SHEET

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- 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-121 121 Source Location Site 1  
(TU)

Total Well Depth:	Purge Data				
	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Well Casing Size & Depth: <u>2" PVC 54 FT</u>					
Static Water Level: <u>46 FT</u>					
One Casing Volume: <u>5.6 Q</u>					
Start Purge (hrs.): <u>1420</u>					
End Purge (hrs.): <u>1453</u>					
Total Purge Time (min.): <u>33</u>					
Total Amount Purged (gal.): <u>18 Q</u>					
Monitor Reading:					
Purge Method: <u>hand bail</u>					
Sample Method: <u>direct pour</u>					
Depth Sampled: <u>46-54 FT</u>					
Sample Date & Time: <u>8/27/91 1053</u>	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>RP</u>					
Signature(s): <u>[Signature]</u>	Type of Sample :				
	<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite			

Analysis	Preservative	Taken?	Bottle ID#	CoFC #	Notes
TCL VOLATILES	HCL: PH 5.2 Cool 2-8°C	✓	Z-1074-03 (2)	#7	

### SAMPLE LOG SHEET

<sup>TEMPORARY</sup> 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

Total Well Depth: <u>58'</u>	Purge Data				
Well Casing Size & Depth: <u>2" @ 58'</u>	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>53'</u>					
One Casing Volume:					
Start Purge (hrs.): <u>1912</u>					
End Purge (hrs.): <u>1920</u>					
Total Purge Time (min.): <u>8</u>					
Total Amount Purged (gal.): <u>2.8</u>					
Monitor Reading:					
Purge Method: <u>SS GALER</u>					
Sample Method: <u>SS GALER</u>					
Depth Sampled: <u>53</u>					
Sample Date & Time: <u>8-27-91</u> <u>1920</u>	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>FRED RAMSER</u>	NA	NA	NA	REDDISH BROWN TURBID	
Signature(s): <i>Fred Ramser</i>	Type of Sample :		<input checked="" type="checkbox"/> Grab		
	<input checked="" type="checkbox"/> Low Concentration		<input type="checkbox"/> Composite		
	<input type="checkbox"/> High Concentration		<input type="checkbox"/> Grab - Composite		

ANALYSIS	PRESERVATIVE	TAKEN?	BOTTLE ID#	COFC#	NOTES
TCL VOLATILES	NOL - PH#2 Cool to 4°C	✓	Z-1074-03	#7	



# SAMPLE LOG SHEET

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- 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 + 110 Source Location Site 1

Total Well Depth:	Purge Data				
Well Casing Size & Depth: <u>2" PVC 53 ft</u>	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>48 ft</u>					
One Casing Volume: <u>6.35 l</u>					
Start Purge (hrs.): <u>1925</u>					
End Purge (hrs.): <u>1955</u>					
Total Purge Time (min.): <u>30 min</u>					
Total Amount Purged (gal.): <u>7 l</u>					
Monitor Reading: <u>No elevated reading</u>					
Purge Method: <u>Hand bail</u>					
Sample Method: <u>direct pour</u>					
Depth Sampled: <u>48-53 ft</u>					
Sample Date & Time: <u>8/27/01 1955</u>	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>RP</u>					
Signature(s): <u>[Signature]</u>	Type of Sample : <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Low Concentration <input type="checkbox"/> Composite <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab - Composite				

Analysis	Preservative	Taken?	Bottle ID#	Co/C #	Notes
TCL VOLATILES	<u>HCL: pH 5.2</u> <u>6.0 l 4.0°C</u>	<input checked="" type="checkbox"/>	<u>Z-1074-03(2)</u>	<u>#7</u>	



# SAMPLE LOG SHEET

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- <sup>TEMPORARY</sup> Monitoring Well Data
- Domestic Well Data
- Other \_\_\_\_\_

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

Total Well Depth: <u>52</u>		Purge Data				
Well Casing Size & Depth: <u>2" @ 52'</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>46.3'</u>						
One Casing Volume:						
Start Purge (hrs.): <u>10:30</u>						
End Purge (hrs.): <u>10:45</u>						
Total Purge Time (min.): <u>15 MIN</u>						
Total Amount Purged (gal.): <u>3.0</u>						
Monitor Reading:						
Purge Method: <u>S.S. BAILER</u>						
Sample Method: <u>S.S. BAILER</u>						
Depth Sampled: <u>~ 46.5' to 47.5'</u>						
Sample Date & Time: <u>8-28-91 10:42</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>FW RAMSER</u>		<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>LIGHT BROWN TURBID.</u>	
Signature(s): <u>Fred W. Ramser</u>		Type of Sample : <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration				
ANALYSIS	PRESERVATIVE	TAKEN?	BOTTLE ID#	COFC #	NOTES	
<u>TCL VOLATILES</u>	<u>HCL1-PH 2</u> <u>6.01 26.0°C</u>	<input checked="" type="checkbox"/>		<u># 7</u>		



# SAMPLE LOG SHEET

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- 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-3-318 Source Location S. 15 3

Total Well Depth:		Purge Data			
Well Casing Size & Depth:	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
<u>2" PVC 52.5'</u>					
Static Water Level: <u>48'</u>					
One Casing Volume: <u>3.15 l</u>					
Start Purge (hrs.): <u>1025</u>					
End Purge (hrs.): <u>1046</u>					
Total Purge Time (min.): <u>21</u>					
Total Amount Purged (gal.): <u>89.1 l</u>					
Monitor Reading: <u>No elevated HW</u>					
Purge Method: <u>haul ba. l</u>					
Sample Method: <u>direct pour</u>					
Depth Sampled: <u>48-52.5'</u>					
Sample Date & Time:		Sample Data			
<u>8/28/91</u>	<u>1046</u>	pH	S.C.	Temp. (°C)	Color & Turbidity
Sampled By: <u>RP</u>					
Signature(s): <u>RP</u>		Type of Sample : <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite			
Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
<u>TCL VOLATILES</u>	<u>ACID: PH 5.2 Cool 5°C</u>	<input checked="" type="checkbox"/>	<u>Z-1094-02 (2)</u>	<u># 7</u>	



# SAMPLE LOG SHEET

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- 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-3-316 Source Location Site-3

Purge Data					
Volume	pH	S.C.	Temp. (°C)	Color & Turbidity	
Total Well Depth: <u>56.5'</u>					
Well Casing Size & Depth: <u>2" PVC 56.5ft</u>					
Static Water Level: <u>51 Feet</u>					
One Casing Volume: <u>385 L</u>					
Start Purge (hrs.): <u>1330</u>					
End Purge (hrs.): <u>1345</u>					
Total Purge Time (min.): <u>15</u>					
Total Amount Purged (gal.): <u>14 L</u>					
Monitor Reading: <u>no recorded HW</u>					
Purge Method: <u>hand bail</u>					
Sample Method: <u>direct pour</u>					
Depth Sampled: <u>51-56.5 ft.</u>					
Sample Data					
pH	S.C.	Temp. (°C)	Color & Turbidity		
Sample Date & Time: <u>8/28/91 1345</u>					
Sampled By: <u>RP</u>					
Signature(s): <u>[Signature]</u>					
Type of Sample :		<input checked="" type="checkbox"/> Grab			
<input checked="" type="checkbox"/> Low Concentration		<input type="checkbox"/> Composite			
<input type="checkbox"/> High Concentration		<input type="checkbox"/> Grab - Composite			
Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
<u>TCL VOLATILES</u>	<u>HCL: PH 5.2</u> <u>cool to 4°C</u>	<input checked="" type="checkbox"/>	<u>Z107403(2)</u>	<u>#7</u>	

# SAMPLE LOG SHEET

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- 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<sup>MR</sup> 123

Source Location SHE #1 SB124<sup>MR</sup> 123

Total Well Depth: <u>52'</u>		Purge Data				
		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Well Casing Size & Depth: <u>2" @ 52'</u>						
Static Water Level: <u>46.3'</u>						
One Casing Volume:						
Start Purge (hrs.): <u>1406</u>						
End Purge (hrs.): <u>1415</u>						
Total Purge Time (min.): <u>9.0</u>						
Total Amount Purged (gal.): <u>2.25</u>						
Monitor Reading:						
Purge Method: <u>S.S. BALLER</u>						
Sample Method: <u>S.S. BALLER</u>						
Depth Sampled: <u>~ 46.5 - 47.5</u>						
Sample Date & Time: <u>8-28-91 1415 HRS</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>FRED W RAMSER</u>		<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>BRN TURBID</u>	
Signature(s): <u>Fred W Ramser</u>		Type of Sample : <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Low Concentration <input type="checkbox"/> Composite <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab - Composite				
Analysis	Preservative	Taken?	Bottle ID#	Co/C #	Notes	
<u>TCL VOLATILES</u>	<u>NO. 1 - PH 5.2 6.0 at 25.0°C</u>	<u>✓</u>		<u>#7</u>		



# SAMPLE LOG SHEET

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- TEMPORARY
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  - 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: <u>57</u>	Purge Data				
Well Casing Size & Depth: <u>2" @ 57</u>	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>54.5</u>					
One Casing Volume: <u>0.56 GAL</u>					
Start Purge (hrs.): <u>NA</u>					
End Purge (hrs.): <u>NA</u>					
Total Purge Time (min.): <u>NA</u>					
Total Amount Purged (gal.): <u>NA</u>					
Monitor Reading: <u>NA</u>					
Purge Method: <u>SS BAILER</u>					
Sample Method: <u>SS BAILER</u>					
Depth Sampled: <u>56'</u>					
Sample Date & Time: <u>1745</u> <u>8/2/91</u> <u>1645</u> <u>0.1</u>	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>RP</u>	NA	NA	NA	NA	
Signature(s): <u>D.Y. FOR RP</u>	Type of Sample : <input checked="" type="checkbox"/> Grab <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> Composite <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab - Composite				

Analysis	Preservative	Taken?	Bottle ID#	C of C #	Notes
<u>TCL VOLATILES</u>	<u>MULTI-PHASE COOL TO 5°C</u>	<input checked="" type="checkbox"/>		<u>#10</u>	





# SAMPLE LOG SHEET

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- TEMPORARY
- Monitoring Well Data
  - Domestic Well Data
  - Other \_\_\_\_\_

Case # \_\_\_\_\_

By FWR

Project Site Name NWIRP BETHPAGE

Project Site Number 3281

NUS Source No. BP-G-205

Source Location SHE 2 SB205

Total Well Depth: <u>56'</u>		Purge Data				
Well Casing Size & Depth: <u>2" @ 56'</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>91'</u>						
One Casing Volume:						
Start Purge (hrs.): <u>17:52</u>						
End Purge (hrs.): <u>18:05</u>						
Total Purge Time (min.): <u>13</u>						
Total Amount Purged (gal.): <u>3.1</u>						
Monitor Reading:						
Purge Method: <u>SS BAKER</u>						
Sample Method: <u>SS BAKER</u>						
Depth Sampled: <u>~ 52-53'</u>						
Sample Date & Time: <u>8-28-91 18:05</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>FRED W. RAMSER</u>		<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>LIGHT BRN / TURBID</u>	
Signature(s): <i>Fred W Ramser</i>		Type of Sample : <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Grab</li> <li><input type="checkbox"/> Composite</li> <li><input type="checkbox"/> Low Concentration</li> <li><input type="checkbox"/> High Concentration</li> <li><input type="checkbox"/> Grab - Composite</li> </ul>				
Analysis	Preservative	Taken?	Bottle ID#	CoFC #	Notes	
<u>TCL VOLATILES</u>	<u>HCL - PH &lt; 2</u> <u>20% 4°C</u>	<input checked="" type="checkbox"/>		<u>#10</u>		



**SAMPLE LOG SHEET**

- TEMPORARY 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-2219 Source Location S. 1c 2

Total Well Depth:		Purge Data				
Well Casing Size & Depth: <u>2" PVC 54 FT.</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>48.5 A</u>						
One Casing Volume: <u>3.85</u>						
Start Purge (hrs.): <u>0845</u>						
End Purge (hrs.): <u>0905</u>						
Total Purge Time (min.): <u>20</u>		<u>NG</u>				
Total Amount Purged (gal.): <u>13 l</u>						
Monitor Reading: <u>No elevated HNU</u>						
Purge Method: <u>Wahl bail</u>						
Sample Method: <u>direct mix</u>						
Depth Sampled: <u>46.5 - 54 FT.</u>						
Sample Date & Time: <u>8/29/91 0908</u>		Sample Data				
Sampled By: <u>RP</u>		pH	S.C.	Temp. (°C)	Color & Turbidity	
Signature(s): <u>[Signature]</u>		Type of Sample :		<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite		
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration						
Analysis	Preservative	Taken?	Bottle ID#	CoFC #	Notes	
TCL VOLATILES	<u>HCL - PH 5.2</u> <u>4°C</u>	<input checked="" type="checkbox"/>	<u>2-1074-03(2)</u>	<u>#10</u>		

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# SAMPLE LOG

- <sup>TEMPORARY</sup> 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

Total Well Depth: <u>56'</u>	Purge Data				
Well Casing Size & Depth: <u>2" @ 56'</u>	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>49.7'</u>					
One Casing Volume:					
Start Purge (hrs.): <u>6003</u>					
End Purge (hrs.): <u>1015</u>					
Total Purge Time (min.): <u>12</u>					
Total Amount Purged (gal.): <u>3.5 GAL</u>					
Monitor Reading:					
Purge Method: <u>SS BAILER</u>					
Sample Method: <u>SS BAILER</u>					
Depth Sampled: <u>50'</u>					
Sample Date & Time: <u>6-29-91 1015</u>	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>F. RAMSER</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>LT TAN / TURBID</u>	
Signature(s): <u>Fred Ramser</u>	Type of Sample :				<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite

ANALYSIS	PRESERVATIVE	TAKEN?	BOTTLE ID #	COFC #	NOTES
<u>TCL VOLATILES</u>	<u>HCL + PH 5.2 CULI @ 4°C</u>	<input checked="" type="checkbox"/>		<u>#10</u>	



# SAMPLE LOG SHEET

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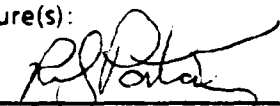
- TEMPORARY**
- Monitoring Well Data
  - Domestic Well Data
  - Other \_\_\_\_\_

Case # \_\_\_\_\_

By RP

Project Site Name NWIRP BETHPAGE Project Site Number 3281

NUS Source No. BP-G-2-218 Source Location Side-Z

Total Well Depth:		Purge Data			
Well Casing Size & Depth: <u>2" PVC 48'</u>	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>42.6"</u>					
One Casing Volume: <u>3.85'</u>					
Start Purge (hrs.): <u>1127</u>					
End Purge (hrs.): <u>1200</u>					
Total Purge Time (min.): <u>33</u>					
Total Amount Purged (gal.): <u>14.2</u>					
Monitor Reading: <u>no elev HNU</u>					
Purge Method: <u>Nail Ball</u>					
Sample Method: <u>Direct Draw</u>					
Depth Sampled:					
Sample Date & Time: <u>8/29/91 1200</u>	Sample Data				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>RP</u>					
Signature(s): 	Type of Sample: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Low Concentration <input type="checkbox"/> Composite <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab - Composite				
<i>Analysis</i>	<i>Preservative</i>	<i>Taken?</i>	<i>Bottle ID#</i>	<i>COFC #</i>	<i>Notes</i>
<u>TCL VOLATILES</u>	<u>NOVA-PH-2</u> <u>CLV 20°C</u>	<input checked="" type="checkbox"/>	<u>21074-00 (2)</u>	<u>#10</u>	



**SAMPLE LOG SHEET**

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- 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

Total Well Depth: <u>56'</u>		Purge Data				
Well Casing Size & Depth: <u>2" @ 202</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>50.3'</u>						
One Casing Volume:						
Start Purge (hrs.): <u>1310</u>						
End Purge (hrs.): <u>1318</u>						
Total Purge Time (min.): <u>8</u>						
Total Amount Purged (gal.): <u>314</u>						
Monitor Reading:						
Purge Method: <u>SS BAILER</u>						
Sample Method: <u>SS BAILER</u>						
Depth Sampled: <u>51'</u>						
Sample Date & Time: <u>8-29-91 1315</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>F. RAMSER</u>		<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>LT BROWN / TURBID</u>	
Signature(s): <u>Fred Ramser</u>		Type of Sample : <input checked="" type="checkbox"/> Low Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> High Concentration <input type="checkbox"/> Composite <input type="checkbox"/> _____ <input type="checkbox"/> Grab - Composite				
Analysis	Preservative	Taken?	Bottle ID#	CoFC #	Notes	
<u>TCL VOLATILES</u>	<u>HCL + PH 5.2 Cool 24°C</u>	<u>✓</u>		<u>#10</u>		



# SAMPLE LOG SHEET

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- <sup>TEMPORARY</sup> Monitoring Well Data
- Domestic Well Data
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By RP

Project Site Name NWIRP BETHPAGE

Project Site Number 3281

NUS Source No. BP-G-2-215

Source Location \_\_\_\_\_

Total Well Depth:		Purge Data				
Well Casing Size & Depth: <u>2" PVC 52.5'</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>47'</u>						/
One Casing Volume: <u>3.85 gal</u>						
Start Purge (hrs.): <u>1400</u>						
End Purge (hrs.): <u>1425</u>						
Total Purge Time (min.): <u>25</u>						
Total Amount Purged (gal.): <u>14 gal</u>						
Monitor Reading: <u>No chg. HNU</u>						
Purge Method: <u>Hand Bail</u>						
Sample Method: <u>direct pour</u>						
Depth Sampled: <u>47-52.5 ft</u>						
Sample Date & Time: <u>8/29/91 1425</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>RP</u>						
Signature(s): <u>[Signature]</u>		Type of Sample : <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Low Concentration <input type="checkbox"/> Composite <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab - Composite				

Analysis	Preservative	Taken?	Bottle ID#	CoFC #	Notes
TCL VOLATILES	HCL 1% PH 2.2 4°C	✓	Z-1074 00(2)	#10	



# SAMPLE LOG SHEET

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- TEMPORARY**
- Monitoring Well Data
  - Domestic Well Data
  - Other \_\_\_\_\_

Case # \_\_\_\_\_


By JAY

Project Site Name NWIRP BETHPAGE

Project Site Number 3281

NUS Source No. BP-G-225

Source Location SITE 2 58225

Total Well Depth: <u>53'</u>		Purge Data				
Well Casing Size & Depth: <u>2" @ 53'</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>48.0'</u>						/
One Casing Volume:						
Start Purge (hrs.): <u>1517</u>						
End Purge (hrs.): <u>1524</u>						
Total Purge Time (min.): <u>7</u>						
Total Amount Purged (gal.): <u>2.5</u>						
Monitor Reading:						
Purge Method: <u>SS BALLER</u>						
Sample Method: <u>SS BALLER</u>						
Depth Sampled: <u>50'</u>						
Sample Date & Time: <u>6-29-91 1524</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>F. RAMSER</u>		<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>LT BROWN TURBID</u>	
Signature(s): 		Type of Sample :		<input checked="" type="checkbox"/> Grab		
		<input checked="" type="checkbox"/> Low Concentration		<input type="checkbox"/> Composite		
		<input type="checkbox"/> High Concentration		<input type="checkbox"/> Grab - Composite		
Analysis	Preservative	Taken?	Bottle ID #	CoFC #	Notes	
<u>TCL VOLATILES</u>	<u>HCL 1- PH 2 CUP 25 90C</u>	<input checked="" type="checkbox"/>		<u>#10</u>		



# SAMPLE LOG SHEET

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- 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-2-227 Source Location \_\_\_\_\_

Total Well Depth: <u>55'</u>		Purge Data			
Well Casing Size & Depth: <u>2" PVC 55'</u>	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>48 ft</u>					/
One Casing Volume: <u>4.9 l</u>					
Start Purge (hrs.): <u>1616</u>					
End Purge (hrs.): <u>1640</u>		<u>NA</u>			
Total Purge Time (min.): <u>24 min</u>					
Total Amount Purged (gal.): <u>16 l</u>					
Monitor Reading: <u>no elevated NAU</u>					
Purge Method: <u>Hand bail</u>					
Sample Method: <u>direct pour</u>					
Depth Sampled: <u>48-55 ft</u>					
Sample Date & Time: <u>8/29/94</u>	Sample Data				
<u>1740</u> <small>RP's call time - 16:24</small>	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>RP</u>					
Signature: <u>[Signature]</u>	Type of Sample : <input checked="" type="checkbox"/> Grab				
	<input type="checkbox"/> Low Concentration <input type="checkbox"/> Composite				
	<input type="checkbox"/> High Concentration <input type="checkbox"/> Grab - Composite				
Analysis	Preservative	Taken?	Bottle ID#	CoC #	Notes
<u>TCL VOLATILES</u>	<u>HCL 1.0 PH 6.2</u> <u>6.0-6.8 °C</u>	<input checked="" type="checkbox"/>	<u>Z 1074-00(a)</u>	<u># 10</u>	







SAMPLE LOG SHEET

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- 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-328 Source Location SITE 3 SB328

Table with columns for Purge Data, Sample Data, and Analysis. Includes fields for Total Well Depth, Well Casing Size, Static Water Level, Purge Volume, pH, S.C., Temp., Color & Turbidity, and a table for Analysis, Preservative, Taken?, Bottle ID#, CoFC #, and Notes.



# SAMPLE LOG SHEET

- TEMPORARY** Monitoring Well Data
- Domestic Well Data
- Other \_\_\_\_\_

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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: <u>51 Feet</u>	<b>Purge Data</b>				
Well Casing Size & Depth: <u>2" PVC 51 Feet</u>	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>46' 2"</u>					
One Casing Volume: <u>3.5 gal</u>					
Start Purge (hrs.): <u>1005</u>					
End Purge (hrs.): <u>1000 1040</u>					
Total Purge Time (min.): <u>35</u>					
Total Amount Purged (gal.): <u>13 gal</u>					
Monitor Reading: <u>No chg MWU</u>					
Purge Method: <u>Hoel Bail</u>					
Sample Method: <u>Direct Draw</u>					
Depth Sampled: <u>46-51 ft</u>					
Sample Date & Time: <u>8/20/91 1040</u>	<b>Sample Data</b>				
	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>AP</u>					
Signature(s): <u>[Signature]</u>	Type of Sample :				
	<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration			<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite	

Analysis	Preservative	Taken?	Bottle ID #	C of C #	Notes
TCL VOLATILES	HCL: PH 5.2 Cool 24°C	✓	21074-03(2)	#14	



# 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. BF-G-209 Source Location SITE 2 SB209

Total Well Depth: <u>0Y 34'</u> <u>32</u>		Purge Data				
Well Casing Size & Depth: <u>2" @ 32</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>23'</u>						
One Casing Volume:						
Start Purge (hrs.): <u>1242</u>						
End Purge (hrs.): <u>1257</u>						
Total Purge Time (min.): <u>15</u>						
Total Amount Purged (gal.): <u>4 1/2</u>						
Monitor Reading:						
Purge Method: <u>SS BAILER</u>						
Sample Method: <u>SS BAILER</u>						
Depth Sampled: <u>23'</u>						
Sample Date & Time: <u>8-30-91</u> <u>1257</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>F. RAMSER</u>		<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>LT BROWN TURB. 0</u>	
Signature(s): <u>Fred M. Ramser</u>		Type of Sample : <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Low Concentration <input type="checkbox"/> Composite <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab - Composite				

Analysis	Preservative	Taken?	Bottle ID #	CoFC #	Notes
TCL VOLATILES	NAL: PH 5.2 Cool 4°C	✓		#14	

SAMPLE NUMBER	DATE SAMPLED	SAMPLE NAME	PAGE NO.
BP 6-HN30S	12-4-91	SITE 2	61
BP-6-HN30I	↓	↓	62
BP-6-HN25S	12-5-91	SITE 3	63
BP-6-HN25I	↓	↓	64
BP-6-HN26S	12-6-91	↓	65
BP-6-HN26I	↓	↓	66
BP-6-HN27S	↓	SITE 1	67
BP-6-HN27I	↓	↓	68
BP-6-HN24S	12-9-91	↓	69
BP-6-HN24I	↓	↓	610
BP-6-HN28S	12-10-91	↓	611
BP-6-HN28I	↓	↓	612
BP-6-HN29S	↓	↓	613
BP-6-HN29I	↓	↓	614
BP-6-US6S	↓	↓	615
BP-6-HN25D	2-12-92	SITE 3	616
BP-6-HN25D: 0-0	↓	↓	617
BP-6-HN29D	↓	SITE 1	618
BP-6-HN08D	↓	SITE 2	619



# SAMPLE LOG SHEET

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Case # \_\_\_\_\_

By RP

Project Site Name NWIRP Detrapage Project Site Number 3281  
 NUS Source No. BP-G-HN-30S, S-D Source Location HN-30-S

Total Well Depth: <u>57.15 FT</u>		Purge Data				
Well Casing Size & Depth: <u>4" 57.15 FT.</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>50.92 FT</u>						
One Casing Volume: <u>4.07 gal</u>						
Start Purge (hrs.): <u>11:35</u>						
End Purge (hrs.): <u>12:25</u>						
Total Purge Time (min.): <u>50</u>						
Total Amount Purged (gal.): <u>15</u>						
Monitor Reading: <u>NO elec HNU</u>						
Purge Method: <u>Hand bail</u>						
Sample Method: <u>Hand bail</u>						
Depth Sampled: <u>57 FT</u>						
Sample Date & Time: <u>12-4-91 13:00</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>Dave Yost</u>		<u>8.46</u>	<u>130</u> <u>unhas/om</u>	<u>18.1</u>	<u>&gt;200 NTU</u>	
Signature(s): <u>RPats for DY</u>		Observations / Notes: <u>Purge clear at first, then tan</u> <u>cloudyish turbidity</u> <u>well stick-up 1.6 FT.</u> <u>PVC</u> <u>↓ All measurements to surface</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite						
Analysis:	Preservative			Organic	Inorganic	
<u>VOA</u>	<u>HCl</u>	Traffic Report #				
<u>BVA</u>	<u>—</u>	Tag #				
<u>Total metals</u>	<u>HNO<sub>3</sub></u>	AB #				
<u>Diss. metals</u>	<u>HNO<sub>3</sub></u>	Date Shipped				
<u>Cyanide</u>	<u>NaOH</u>	Time Shipped				
<u>Cr+6</u>	<u>—</u>	Lab				
		Volume				



# SAMPLE LOG SHEET

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Case # \_\_\_\_\_

By RP

Project Site Name NWIRP Bethpage

Project Site Number 3281

NUS Source No. BP-6-NW-30I

Source Location HU 30 I

Total Well Depth: * <u>119.34 FT</u>		Purge Data				
		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Well Casing Size & Depth: <u>4" 119.34 FT</u>						
Static Water Level: <u>52.10 FT</u>						
One Casing Volume: <u>44 gal</u>						
Start Purge (hrs.): <u>11:00</u>						
End Purge (hrs.): <u>13:30</u>						
Total Purge Time (min.): <u>150</u>						
Total Amount Purged (gal.): <u>140</u>						
Monitor Reading: <u>120 elev HNU</u>						
Purge Method: <u>Subm. Pump</u>						
Sample Method: <u>Hand, Ba. I</u>						
Depth Sampled:						
Sample Date & Time: <u>12-4-91 13:30</u>		Sample Data				
Sampled By: <u>RP</u>		pH	S.C.	Temp. (°C)	Color & Turbidity	
		<u>9.7</u>	<u>170 umhos/cm</u>	<u>17.5</u>	<u>&gt;200 NTU</u>	
Signature(s): <u>R. Patacs</u>		Observations / Notes: <u>Clean purge at beginning - to tan clayish.</u> <u>Flash mantle well - TOC is 0.34 ft below surface. PVC</u> <u>*All measurements from surface</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite						
Analysis:	Preservative	Organic		Inorganic		
<u>VOA</u>	<u>HCl</u>	Traffic Report #				
<u>BNA</u>	<u>—</u>	Tag #				
<u>Total Metals</u>	<u>HNO<sub>3</sub></u>	AB #				
<u>Five Metals</u>	<u>HNO<sub>3</sub></u>	Date Shipped				
<u>Cyanide</u>	<u>NaOH</u>	Time Shipped				
<u>Cr+6</u>	<u>—</u>	Lab				
		Volume				



# SAMPLE LOG SHEET

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- Monitoring Well Data
- Domestic Well Data
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Case # \_\_\_\_\_

By RP

Project Site Name NWIRP Bethpage Project Site Number 3281  
 NUS Source No. BRG-HD-255, S-MS, S-MSO Source Location HD-25-5.

Total Well Depth: <u>58.85 FT.</u>		Purge Data				
Well Casing Size & Depth: <u>4" 58.85 FT</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>52.25</u>						
One Casing Volume: <u>4.32 gal</u>						
Start Purge (hrs.): <u>1320</u>						
End Purge (hrs.): <u>1355</u>						
Total Purge Time (min.): <u>35</u>						
Total Amount Purged (gal.): <u>15</u>						
Monitor Reading: <u>NO elev H<sub>2</sub>O</u>						
Purge Method: <u>Hand bail</u>						
Sample Method: <u>Hand bail</u>						
Depth Sampled: <u>58 FT.</u>						
Sample Date & Time: <u>12-5-91 1355</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>D. Yost</u>		<u>5.62</u>	<u>405 umhos/cm</u>	<u>14.9</u>	<u>&gt; 200 NTU</u>	
Signature(s): <u>D. Yost for DY</u>		Observations / Notes: <u>purge water has yellow-red turbidity (very turbid)</u> <u>Flush mount well TOC is 0.35 FT below surface PVC.</u> <u>* All measurements from surface</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite						
Analysis:	Preservative	Organic		Inorganic		
<u>VOA</u>	<u>HCl</u>	Traffic Report #				
<u>DWA</u>	<u>-</u>	Tag #				
<u>rot. metals</u>	<u>HNO<sub>3</sub></u>	AB #				
<u>diss metals</u>	<u>HNO<sub>3</sub></u>	Date Shipped				
<u>CN</u>	<u>NaOH</u>	Time Shipped				
<u>Cr+6</u>	<u>-</u>	Lab				
		Volume				





# SAMPLE LOG SHEET

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- Monitoring Well Data
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Case # \_\_\_\_\_

By RP

Project Site Name NWIRP Bethpage Project Site Number \_\_\_\_\_

NUS Source No. BP6-NW-25I, I-D Source Location HN-25I

Total Well Depth: <u>128.8 FT</u>		Purge Data				
Well Casing Size & Depth: <u>4" 128.8 FT</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>52.1 FT</u>						
One Casing Volume: <u>50.2 gal</u>						
Start Purge (hrs.): <u>12:05</u>						
End Purge (hrs.): <u>12:17</u>						
Total Purge Time (min.): <u>12</u>						
Total Amount Purged (gal.): <u>165</u>						
Monitor Reading: <u>NO elev NUL</u>						
Purge Method: <u>Subm pump</u>						
Sample Method: <u>Hand bail</u>						
Depth Sampled: <u>128 FT.</u>						
Sample Date & Time: <u>12-5-91 12:25</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>RP</u>		<u>5.8</u>	<u>100 umhos/cm</u>	<u>16.5</u>	<u>7.1 NTU</u>	
Signature(s): <u>RP</u>		Observations / Notes: <u>purge water clear</u> <u>Flush mount well TOC is 0.3 ft</u> <u>below surface PVC</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite		* All measurements from surface				
Analysis:	Preservative		Organic	Inorganic		
<u>VOA</u>	<u>HCl</u>	Traffic Report #				
<u>DWA</u>	<u>-</u>	Tag #				
<u>tot metals</u>	<u>HNO3</u>	AB #				
<u>dis metals</u>	<u>HNO3</u>	Date Shipped				
<u>Cu</u>	<u>NaOH</u>	Time Shipped				
<u>Cr<sup>6</sup></u>	<u>-</u>	Lab				
		Volume				



# SAMPLE LOG SHEET

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Case # \_\_\_\_\_

By RA

Project Site Name NWIRP Bethpage Project Site Number 3281  
 NUS Source No. BA6-HW-26-S Source Location HW-26-S

Total Well Depth: * <u>53.05 FT.</u>		Purge Data				
Well Casing Size & Depth: <u>4" 53.05 FT.</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>49.15 FT.</u>						
One Casing Volume: <u>2.55</u>						
Start Purge (hrs.): <u>0820</u>						
End Purge (hrs.): <u>0845</u>						
Total Purge Time (min.): <u>25</u>						
Total Amount Purged (gal.): <u>10</u>						
Monitor Reading: <u>No new H2O</u>						
Purge Method: <u>Hand bail</u>						
Sample Method: <u>Hand bail</u>						
Depth Sampled: <u>53 FT.</u>						
Sample Date & Time: <u>12-6-92 0900</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>Dave Yost.</u>		<u>8.32</u>	<u>115</u> <u>no obs/cm</u>	<u>14.0</u>	<u>&gt;200 NTU</u>	
Signature(s): <u>RA Yost for DY</u>		Observations/Notes: <u>purge turbid.</u> <u>flush mount well TOC 0.35 FT</u> <u>below surface PVC.</u>  <u>* All measurements to surface</u>				
Type of Sample						
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite						
Analysis:	Preservative			Organic	Inorganic	
<u>VOA</u>	<u>HCl</u>	Traffic Report #				
<u>BOD</u>	<u>-</u>	Tag #				
<u>tot metals</u>	<u>HNO3</u>	AB #				
<u>dis. metals</u>	<u>HNO3</u>	Date Shipped				
<u>Cd</u>	<u>NaOH</u>	Time Shipped				
<u>Cr6</u>	<u>-</u>	Lab				
		Volume				



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- Other

Case # \_\_\_\_\_

By RP

Project Site Name NW1RP Bethpage Project Site Number 3281  
 NUS Source No. DA6-HU-26-I Source Location HU-26-I

Total Well Depth: <u>124.18 FT</u>		Purge Data				
Well Casing Size & Depth: <u>4" 124.18 FT.</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>50.10 FT.</u>						
One Casing Volume: <u>48.45 gal</u>						
Start Purge (hrs.): <u>15:10</u>						
End Purge (hrs.): <u>15:5</u>						
Total Purge Time (min.): <u>45</u>						
Total Amount Purged (gal.): <u>165</u>						
Monitor Reading: <u>No elev H<sub>2</sub>O</u>						
Purge Method: <u>Sub. pump</u>						
Sample Method: <u>Hand bail</u>						
Depth Sampled: <u>124 FT.</u>						
Sample Date & Time: <u>12-5-91 0800</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>D. Yost</u>		<u>9.65</u>	<u>180</u> <small>µmhos/cm</small>	<u>11.4</u>	<u>&gt;200 NTU</u>	
Signature(s): <u>R. Yost for DY</u>		Observations/Notes: <u>purge clear for 45 gal, then med. tan turbidity.</u> <u>Flush mount well TOC is 0.54 FT below surface PVC.</u> <u>purged 12-5-92</u> <u>* All measurements from surface.</u>				
Type of Sample						
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite						
Analysis:	Preservative			Organic	Inorganic	
<u>VOA</u>	<u>HCl</u>	Traffic Report #				
<u>BWA</u>	<u>—</u>	Tag #				
<u>tot metals</u>	<u>HNO<sub>3</sub></u>	AB #				
<u>diss metals</u>	<u>HNO<sub>3</sub></u>	Date Shipped				
<u>CAJ</u>	<u>NaOH</u>	Time Shipped				
<u>Cr<sup>6+</sup></u>	<u>—</u>	Lab				
		Volume				



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Case # \_\_\_\_\_

By RP

Project Site Name NW1RP Deerpase Project Site Number 3281  
 NUS Source No. DP-6-HW-27-S Source Location HW-27-S

Total Well Depth: <u>53.3 FT.</u>		Purge Data				
Well Casing Size & Depth: <u>4" 53.3 FT.</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>49.1 FT.</u>						
One Casing Volume: <u>2.75 gal</u>						
Start Purge (hrs.): <u>1110</u>						
End Purge (hrs.): <u>1150</u>						
Total Purge Time (min.): <u>40</u>						
Total Amount Purged (gal.): <u>10</u>						
Monitor Reading: <u>NO elev HW</u>						
Purge Method: <u>Hand bail</u>						
Sample Method: <u>Hand bail</u>						
Depth Sampled: <u>53 FT.</u>						
Sample Date & Time: <u>12-6-91 12:20</u>		Sample Data				
Sampled By: <u>RP</u>		pH	S.C.	Temp. (°C)	Color & Turbidity	
		<u>6.5</u>	<u>115</u> umhos/cm	<u>15.3</u>	<u>&gt;200 NTU</u>	
Signature(s): <u>R. Patous</u>		Observations/Notes: <u>turbid during purging</u> <u>well stick-up 2.5 FT. PVC</u>				
Type of Sample		<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite  <u>+ All measurements to surface</u>				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite						
Analysis:	Preservative					
<u>UOA</u>	<u>HCl</u>					
<u>BNA</u>	<u>-</u>					
<u>tot metals</u>	<u>HNO3</u>	Traffic Report #	Organic	Inorganic		
<u>dis metals</u>	<u>HNO3</u>	Tag #				
<u>Cd</u>	<u>NaOH</u>	AB #				
<u>Cr6</u>	<u>-</u>	Date Shipped				
		Time Shipped				
		Lab				
		Volume				



# SAMPLE LOG SHEET

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- Monitoring Well Data
- Domestic Well Data
- Other \_\_\_\_\_

Case # \_\_\_\_\_  
By RP

Project Site Name WVAP 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				
		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Well Casing Size & Depth: 4" 109.78 FT.						
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: DO elev HAW						
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: <u>DYost</u>		9.0	140 µmhos/cm	16.0	52 NTU	
Signature(s): <u>RPats for DY</u>		Observations / Notes: well ran dry several times during purging. water clear well stuck-up 2.8 ft. PVC.  + All measurements to surface				
Type of Sample						
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite						
Analysis:	Preservative	Organic		Inorganic		
VOA	HCl	Traffic Report #				
DNA	—	Tag #				
tot metals	HNO <sub>3</sub>	AB #				
diss metals	HNO <sub>3</sub>	Date Shipped				
Cu	NaOH	Time Shipped				
Cr+5	—	Lab				
		Volume				



# SAMPLE LOG SHEET

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- Monitoring Well Data
- Domestic Well Data
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By RP

Project Site Name NWLRP Bethpage Project Site Number 3281  
 NUS Source No. BP-G-HW-24-S Source Location HW-24-S

Total Well Depth: * <u>58.55 FT.</u>		Purge Data				
		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Well Casing Size & Depth: <u>4" 58.55 FT.</u>						
Static Water Level: <u>50.2 FT.</u>						
One Casing Volume: <u>5.46 gal</u>						
Start Purge (hrs.): <u>1045</u>						
End Purge (hrs.): <u>1210.</u>						
Total Purge Time (min.): <u>85</u>						
Total Amount Purged (gal.): <u>20</u>						
Monitor Reading: <u>no elev HW</u>						
Purge Method: <u>Hand bail.</u>						
Sample Method: <u>Hand bail</u>						
Depth Sampled: <u>58 FT.</u>						
Sample Date & Time: <u>12-9-91 1220</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>E. HOSS</u>		<u>6.33</u>	<u>120</u> <u>unmeasured</u>	<u>15.6</u>	<u>154 NTU</u>	
Signature(s): <u>RPattis for EN</u>		Observations/Notes: <u>well fairly turbid throughout purging.</u> <u>Flush mount well TOC 0.3 FT below surface PVC</u> <u>+ All measurements to surface</u>				
Type of Sample						
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite						
Analysis:	Preservative	Traffic Report #	Organic	Inorganic		
<u>JOA</u>	<u>HCl</u>					
<u>BVA</u>	<u>-</u>	Tag #				
<u>tot metals</u>	<u>HNO3</u>					
<u>diss metals</u>	<u>HNO3</u>	AB #				
<u>CW</u>	<u>NaOH</u>	Date Shipped				
<u>CR6</u>	<u>-</u>	Time Shipped				
		Lab				
		Volume				



# SAMPLE LOG SHEET

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- Monitoring Well Data
- Domestic Well Data
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By RP

Project Site Name NWIRP Bethpage Project Site Number 3281  
 NUS Source No. BP-6-NW-24-I Source Location NW-24-I

Total Well Depth: * 157.41 FT		Purge Data				
		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
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: NWU 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		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: E. HOSS		10.98	400 u/mhos/cm	16.7	90.7 NTU	
Signature(s): RP/ES for EH		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				
Type of Sample						
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite						
Analysis:	Preservative	Traffic Report #	Organic	Inorganic		
VOA	HCl					
DWA	-	Tag #				
tot metals	NH <sub>4</sub> OH	AB #				
diss metals	NH <sub>4</sub> OH	Date Shipped				
CN	NaOH	Time Shipped				
Cr <sup>6</sup>	-	Lab				
		Volume				



# SAMPLE LOG SHEET

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- Domestic Well Data
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Case # \_\_\_\_\_

By RP

Project Site Name NWLRP Beth page Project Site Number 3281  
 NUS Source No. BA-G-NW-28-S Source Location NW-28-S

Total Well Depth: <u>53.65 FT</u>		Purge Data				
Well Casing Size & Depth: <u>4" 53.65 FT</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>49.75 FT</u>						
One Casing Volume: <u>2.55 gal</u>						
Start Purge (hrs.): <u>1430</u>						
End Purge (hrs.): <u>1500</u>						
Total Purge Time (min.): <u>30</u>						
Total Amount Purged (gal.): <u>10</u>						
Monitor Reading: <u>NW 1.8 ppm back 0.2 ppm</u>						
Purge Method: <u>Hand bail</u>						
Sample Method: <u>Hand bail</u>						
Depth Sampled: <u>53 FT</u>						
Sample Date & Time: <u>12-10-91 0840</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>RP</u>		<u>6.99</u>	<u>645</u> <small>umhos/cm</small>	<u>160</u>	<u>&gt;200 NTU</u>	
Signature(s): <u>RP</u>		Observations/Notes: <u>turbidity during purging</u> <u>Flush mount well TOC 0.65 ft</u> <u>below surface. PVC.</u> <u>well purged 12-9-92</u> <u>* All measurements to surface.</u>				
Type of Sample						
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite						
Analysis:	Preservative			Organic	Inorganic	
<u>VOA</u>	<u>HCl</u>	Traffic Report #				
<u>PWK</u>	<u>-</u>	Tag #				
<u>tot metals</u>	<u>HNO3</u>	AB #				
<u>disse metals</u>	<u>HNO3</u>	Date Shipped				
<u>CN</u>	<u>NaOH</u>	Time Shipped				
<u>Cr+6</u>	<u>-</u>	Lab				
		Volume				





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Case # \_\_\_\_\_

By RP

Project Site Name DW/AP Bethpage Project Site Number 3281  
 NUS Source No. BP-6-HW-28-I Source Location HW-28-I

Total Well Depth: <u>141.45 FE</u>		Purge Data			
Well Casing Size & Depth:	Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
<u>4" 141.45 FE.</u>					
Static Water Level: <u>50.25</u>					
One Casing Volume: <u>59.64 gal</u>					
Start Purge (hrs.): <u>1420</u>					
End Purge (hrs.): <u>1520</u>					
Total Purge Time (min.): <u>60</u>					
Total Amount Purged (gal.): <u>195</u>					
Monitor Reading: <u>NO NEW HW</u>					
Purge Method: <u>sub pump</u>					
Sample Method: <u>hand bail</u>					
Depth Sampled: <u>141 FE.</u>					
Sample Date & Time:		Sample Data			
<u>12-10-91 0810</u>	pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>RP</u>	<u>7.67</u>	<u>130</u> <u>unstable</u>	<u>16.8</u>	<u>29.8 NTU</u>	
Signature(s): <u>RP</u>	Observations/Notes: <u>well purged clear until 55 gal, then</u> <u>light turbidity - clear by 100 gal.</u> <u>well purged 12-9-91 went dry.</u> <u>flash mount well - TOC 0.25 FT</u> <u>below surface</u> <u>→ All measurements to surface.</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite					
Analysis:	Preservative	Traffic Report #	Organic	Inorganic	
<u>VOA</u>	<u>HCl</u>				
<u>DMA</u>	<u>-</u>	<u>Tag #</u>			
<u>tot metals</u>	<u>HNO<sub>3</sub></u>				
<u>diss metals</u>	<u>HNO<sub>3</sub></u>	<u>AB #</u>			
<u>CW</u>	<u>NaOH</u>	<u>Date Shipped</u>			
<u>Cr-6</u>	<u>-</u>	<u>Time Shipped</u>			
		<u>Lab</u>			
		<u>Volume</u>			



# SAMPLE LOG SHEET

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Case # \_\_\_\_\_

By RP

Project Site Name NW1RP Beth page Project Site Number 2281  
 NUS Source No. BP-6-HU-29-S Source Location HU-29-S

Total Well Depth: <u>48.45 FT</u>		Purge Data				
Well Casing Size & Depth: <u>4" 48.45 FT</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>43.3 FT</u>						
One Casing Volume: <u>337 gal</u>						
Start Purge (hrs.): <u>0945</u>						
End Purge (hrs.): <u>1040</u>						
Total Purge Time (min.): <u>55</u>						
Total Amount Purged (gal.): <u>12</u>						
Monitor Reading: <u>NO elev HNU</u>						
Purge Method: <u>Hand bail</u>						
Sample Method: <u>Hand bail</u>						
Depth Sampled: <u>48 Ft.</u>						
Sample Date & Time: <u>12-10-91 1045</u>		Sample Data				
Sampled By: <u>RP</u>		pH	S.C.	Temp. (°C)	Color & Turbidity	
		<u>9.58</u>	<u>980</u> <u>wtbas/cm</u>	<u>16.2</u>	<u>&gt;200 NTU</u>	
Signature(s): <u>RP</u>		Observations / Notes: <u>well turbid throughout purging</u> <u>well stick-up 2.1 Feet</u> <u>PVC</u>  <u>↓ All measurements to surface.</u>				
Type of Sample						
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite						
Analysis:	Preservative			Organic	Inorganic	
<u>VOA</u>	<u>HCl</u>	Traffic Report #				
<u>DWA</u>	<u>-</u>	Tag #				
<u>tot metals</u>	<u>HNO<sub>3</sub></u>	AB #				
<u>diss metals</u>	<u>HNO<sub>3</sub></u>	Date Shipped				
<u>CU</u>	<u>NaOH</u>	Time Shipped				
<u>Cr+6.</u>	<u>-</u>	Lab				
		Volume				



# SAMPLE LOG SHEET

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Case # \_\_\_\_\_

By RP

Project Site Name NWIRP Beth page Project Site Number 3281  
 NUS Source No. BP-G-KN-29-I Source Location KN-29-I

Total Well Depth: <u>128.85 FT</u>		Purge Data				
Well Casing Size & Depth: <u>4" 128.85 FT.</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>44.35 FT</u>						
One Casing Volume: <u>55.26 gal</u>						
Start Purge (hrs.): <u>10:15</u>						
End Purge (hrs.): <u>11:34</u>						
Total Purge Time (min.): <u>79</u>						
Total Amount Purged (gal.): <u>18.5</u>						
Monitor Reading: <u>No elev HNO</u>						
Purge Method: <u>Sub. pump</u>						
Sample Method: <u>Hand bail</u>						
Depth Sampled: <u>128 FT.</u>						
Sample Date & Time: <u>12-10-91 11:45</u>		Sample Data				
Sampled By: <u>RP</u>		pH	S.C.	Temp. (°C)	Color & Turbidity	
		<u>10.12</u>	<u>160</u> <u>µmhos/cm</u>	<u>17.0</u>		
Signature(s): <u>RPatus</u>		Observations/Notes: <u>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.</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite						
Analysis:	Preservative			Organic	Inorganic	
<u>VOA</u>	<u>HCl</u>	Traffic Report #				
<u>BNA</u>	<u>-</u>	Tag #				
<u>tot metals</u>	<u>HNO<sub>3</sub></u>	AB #				
<u>diss metals</u>	<u>HNO<sub>3</sub></u>	Date Shipped				
<u>Cu</u>	<u>NaOH</u>	Time Shipped				
<u>Cr+6</u>	<u>-</u>	Lab				
		Volume				



# SAMPLE LOG SHEET

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- Monitoring Well Data
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Case # \_\_\_\_\_

By RP

Project Site Name NWIRP Bethpage Project Site Number 3281  
 NUS Source No. BP-6-USGS Source Location USGS well

Total Well Depth: * <u>71.0 FT</u>		Purge Data				
Well Casing Size & Depth: <u>2" 71.0 FT</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>48.75 FT</u>						
One Casing Volume: <u>7.25 gal</u>						
Start Purge (hrs.): <u>1435</u>						
End Purge (hrs.): <u>1505</u>						
Total Purge Time (min.): <u>30</u>						
Total Amount Purged (gal.): <u>15</u>						
Monitor Reading: <u>no elev HNU</u>						
Purge Method: <u>Hand bail</u>						
Sample Method: <u>Hand bail</u>						
Depth Sampled: <u>70 FT.</u>						
Sample Date & Time: <u>12-10-91 1520</u>		Sample Data				
Sampled By: <u>RP</u>		pH	S.C.	Temp. (°C)	Color & Turbidity	
		<u>6.67</u>	<u>110 umhos/cm</u>	<u>15.4</u>	<u>140.4 NTU</u>	
Signature(s): <u>RPatus</u>		Observations/Notes: <u>well had black, organic-like turbidity,</u> <u>Casing was buried at roadside -</u> <u>may recieve runoff from road</u> <u>well flush mount TOC 0.3 ft below.</u> <u>→ All measurements to surface.</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite						
Analysis:	Preservative	Organic		Inorganic		
<u>VOA</u>	<u>HCl</u>	Traffic Report #				
<u>BWA</u>	<u>-</u>					
<u>tot metals</u>	<u>H2O2</u>	AB #				
<u>diss metals</u>	<u>NADs</u>					
<u>Cu</u>	<u>NaOH</u>	Time Shipped				
<u>Cr6</u>	<u>-</u>					
		Volume				



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Case # \_\_\_\_\_

By RP

Project Site Name NWIRP Betnpage Project Site Number 3281

NUS Source No. BAG-NU-25-D, D-D, D-MS, D-MS Source Location NU-25-D

Total Well Depth: <u>210.7 FT</u>		Purge Data				
		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Well Casing Size & Depth: <u>4" 210.7 FT</u>						
Static Water Level: <u>54.54 FT</u>						
One Casing Volume: <u>102.1 gal</u>						
Start Purge (hrs.): <u>1150</u>						
End Purge (hrs.): <u>1215</u>						
Total Purge Time (min.): <u>25</u>						
Total Amount Purged (gal.): <u>340</u>						
Monitor Reading: <u>NWU 0.6ppm bact; 0.3ppm</u>						
Purge Method: <u>subm pump</u>						
Sample Method: <u>hand bail</u>						
Depth Sampled: <u>175 FT (approx)</u>						
Sample Date & Time: <u>2-12-92 14:25</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>RP</u>		<u>7.49</u>	<u>120 umbasl</u>	<u>12.4</u>	<u>102.8 NTU</u>	
Signature(s): <u>[Signature]</u>		Observations / Notes: <u>water relatively clear with very fine suspended silt. Purged 2-11-92</u> <u>flash mount well TOC is feet below surface PVC pump set at approx 75 feet</u> <u>* all measurements to top of casing</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite						
Analysis:	Preservative	Traffic Report #	Organic	Inorganic		
<u>VOA</u>	<u>HCl</u>					
<u>BVA</u>	<u>-</u>					
<u>tot. metals</u>	<u>HClO<sub>2</sub></u>					
<u>dis. metals</u>	<u>NHCl</u>					
<u>Cu</u>	<u>NaOH</u>					
<u>Cr<sup>6+</sup></u>	<u>-</u>					
		Lab				
		Volume				



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Case # \_\_\_\_\_

By OY

Project Site Name NWIRP Project Site Number 3281  
 NUS Source No. BP-6-HN25-D, D-D Source Location HN25-D DUPLICATE

Total Well Depth: <u>210.7'</u>		Purge Data				
Well Casing Size & Depth: <u>4" Ø 210.7'</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>54.54'</u>						
One Casing Volume: <u>62.1 Gal</u>						
Start Purge (hrs.): <u>11:50</u>						
End Purge (hrs.): <u>12:15</u>						
Total Purge Time (min.): <u>25</u>						
Total Amount Purged (gal.): <u>340</u>						
Monitor Reading: <u>HNu 0.6 ppm Background 0.3 ppm</u>						
Purge Method: <u>SUB PUMP</u>						
Sample Method: <u>HAND BAIL</u>						
Depth Sampled: <u>175' (approx)</u>						
Sample Date & Time: <u>2-12-92 14:25</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>R.P.</u>		<u>7.49</u>	<u>120 <sup>micro</sup> mhos/cm</u>	<u>12.4</u>	<u>102.8 NTU</u>	
Signature(s): <u>A. Vint For R.P.</u>		Observations/Notes:  <u>Duplicate sample of HN25-D</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite						
Analysis:	Preservative			Organic	Inorganic	
<u>UOA</u>	<u>HCL</u>	<u>Traffic Report #</u>				
<u>BNA</u>	<u>---</u>	<u>Tag #</u>				
<u>Total metals</u>	<u>HNO3</u>	<u>AB #</u>				
<u>Dissolved metals</u>	<u>HNO3</u>	<u>Date Shipped</u>				
<u>CW</u>	<u>NaOH</u>	<u>Time Shipped</u>				
<u>HEK CHROM</u>	<u>---</u>	<u>Lab</u>				
		<u>Volume</u>				



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Case # \_\_\_\_\_

By RP

Project Site Name WIRP Bethpage

Project Site Number 3281

NUS Source No. DP-G-HN-29 D

Source Location HN-29-D

Total Well Depth: * <u>220.0 FE</u>		Purge Data				
Well Casing Size & Depth: <u>4" 220 FE</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>46.8 FE</u>						
One Casing Volume: <u>113.3 gal</u>						
Start Purge (hrs.): <u>1020</u>						
End Purge (hrs.): <u>1045</u>						
Total Purge Time (min.): <u>25</u>						
Total Amount Purged (gal.): <u>375</u>						
Monitor Reading: <u>HW 0.3 ppm bacgr. 0.2 ppm</u>						
Purge Method: <u>subm pump</u>						
Sample Method: <u>hand bail</u>						
Depth Sampled: <u>175 FE</u>						
Sample Date & Time: <u>2-12-92</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>RP</u>		<u>7.85</u>	<u>140 umhos/cm</u>	<u>12.1</u>	<u>4.92 NTU</u>	
Signature(s): <u>[Signature]</u>	Observations / Notes: <u>purge water clear purged 2-12-92</u> <u>Flush main well TOC is Feet</u> <u>below surface PVC</u> <u>pump set at approx 75 ft</u> <u>+ measurements to top of casing</u>					
Type of Sample						
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite						
Analysis:	Preservative			Organic	Inorganic	
<u>VOA</u>	<u>HCl</u>	Traffic Report #				
<u>BNA</u>	<u>-</u>	Tag #				
<u>tot metals</u>	<u>NaNO3</u>	AB #				
<u>diss metals</u>	<u>NaNO3</u>	Date Shipped				
<u>CU</u>	<u>NaOH</u>	Time Shipped				
<u>Cr+6</u>	<u>-</u>	Lab				
		Volume				



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Case # \_\_\_\_\_

By RP

Project Site Name Bethpage Project Site Number 3281  
 NUS Source No. BP-G-HN08-D Source Location HU-08-D

Total Well Depth: <u>198 ft.</u>		Purge Data				
		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Well Casing Size & Depth: <u>4" 198 ft</u>						
Static Water Level: <u>56.10 ft</u>						
One Casing Volume: <u>93.1 gal</u>						
Start Purge (hrs.): <u>1145</u>						
End Purge (hrs.): <u>1205</u>						
Total Purge Time (min.): <u>20</u>						
Total Amount Purged (gal.): <u>300</u>						
Monitor Reading: <u>NW 0.8 ppm bact; 0.3 ppm</u>						
Purge Method: <u>Subm. pump</u>						
Sample Method: <u>hand bail</u>						
Depth Sampled: <u>190 ft</u>						
Sample Date & Time: <u>2-12-92 12:25</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>RP</u>		<u>10.04</u>	<u>320 turbid</u>	<u>16.3</u>	<u>44.2 NTU</u>	
Signature(s): 		Observations/Notes: <u>purge water was clear / purged 2-12-92</u> <u>flush mant well - TOC is 0.5 feet</u> <u>below surface. PVC</u> <u>pump set @ approx 75 ft</u> <u>* All measurements to surface</u>				
Type of Sample						
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite						
Analysis:	Preservative	Organic		Inorganic		
<u>VOA</u>	<u>HCl</u>	Traffic Report #				
<u>BNA</u>	<u>-</u>	Tag #				
<u>tot metals</u>	<u>HNO3</u>	AB #				
<u>diss. metals</u>	<u>HNO3</u>	Date Shipped				
<u>Cu</u>	<u>HNO3</u>	Time Shipped				
<u>Cr+6</u>	<u>-</u>	Lab				
		Volume				



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**B.3**

**SURFACE WATER / SEDIMENTS**

SURFACE WATER / SEDIMENT SAMPLES

1 OF 1

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



# SAMPLE LOG SHEET

Page 51 of 57

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By TR

Project Site Name NWIRP BETHPAGE Project Site Number 3281  
 NUS Source No. BP-SD-2-01 Source Location Site -2

Sample Method: <u>S. S. Trowel</u>	Composite Sample Data			
Depth Sampled: <u>0-6"</u>	Sample	Time	Color / Description	
Sample Date & Time: <u>02-27-91 1000</u>	N/A			
Sampled By: <u>TR</u>				
Signature(s): 				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
Sample Data				
Color <u>TR</u>		Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>Coarse Sand (pebbles)</u>		
Analysis	Taken?	Bottle ID #	Co/C #	Notes
TCL Volatiles	✓	-	#4	WEST SIDE OF SE BASIN 30' FROM WEST SPILLWAY  SHIPPED w/ SOIL BEING TRIP BLANK
TCL BVA	✓	05169106	↓	
TAL METALS	✓	↓	↓	
CYANIDE	✓	↓	↓	



# SAMPLE LOG SHEET

Page 2 of 57

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

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:	Composite Sample Data			
<u>S.S. Tunnel</u>	Sample	Time	Color / Description	
Depth Sampled: <u>0-6"</u>				
Sample Date & Time: <u>09-27-91 1000</u>				
Sampled By: <u>TR</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample <input type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite	Sample Data			
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)		
	<u>TAN</u>	<u>COARSE SAND (pebbles)</u>		
Analysis	Taken?	Bottle ID #	CofC #	Notes
TCL Volatiles	✓	-	#4	WEST SIDE OF SE BASIN
TCL BNA	✓	05169106	↓	
TCL METALS	✓	↓	↓	
CYANIDE	✓	↓	↓	
				SHIPPED w/ SOIL Boring TRIP BLANK



SAMPLE LOG SHEET

Page 53 of 57

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By TR

Project Site Name NWIRP BETA PAGE Project Site Number 3281  
 NUS Source No. BP-SD-2-02 Source Location Site-2

Sample Method:	Composite Sample Data			
	Sample	Time	Color/Description	
Depth Sampled: <u>0-6"</u>			<i>N/A</i>	
Sample Date & Time: <u>08-27-91 1030</u>				
Sampled By: <u>TR</u>				
Signature(s): <u>[Signature]</u>				
Type of Sample				
<input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite				
	Sample Data			
	Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)		
	<u>TAN</u>	<u>Coarse Sand (Pebbles)</u>		
Analysis	Taken?	Bottle ID #	CoC #	Notes
TCL Volatiles	✓	-	#4	Sampled East Part of SB Basin <hr/> Shipped w/ Soil Boring Trip Blank
TCL BNA	✓	05169106	↓	
TAL Metals	✓	↓	↓	
CYANIDE	✓	↓	↓	



# SAMPLE LOG SHEET

Page 54 of 57

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By RP

Project Site Name NWIRP Bethpage Project Site Number 3281  
 NUS Source No. BR SD-100 Source Location Cooling pond # 2

Sample Method: <u>trowel</u>	Composite Sample Data		
	Sample	Time	Color / Description
Depth Sampled: <u>0-6"</u>			
Sample Date & Time: <u>12-11-91 0800</u>			
Sampled By: <u>RP</u>			
Signature(s): <u>RPateS</u>			
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite	Sample Data		
	Color <u>tan</u>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>Matches SW-01</u>	
Analysis: <u>VOA</u> <u>BNA</u> <u>tol met / CN</u> <u>C-6</u>	Observations / Notes <u>Med to very coarse sand w/ black sediment. Water clear.</u> <u>NO elev HNU</u> <u>From process water cooling basin</u> <u>immed west of out fall at</u> <u>bottom (level) of basin</u>		
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; width: 40px; text-align: center;">Salt shed</div> <div style="border: 1px solid black; width: 60px; height: 60px; margin: 0 auto;"></div> <div style="text-align: center; margin-left: 10px;">↑ N</div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;"> <div style="border: 1px solid black; padding: 5px; width: 40px; text-align: center;">Xp</div> <div style="border: 1px solid black; width: 60px; height: 60px; margin: 0 auto;"></div> </div>	Organic	Inorganic	
	Traffic Report #		
	Tag #		
	AB #		
	Date Shipped		
	Time Shipped		
	Lab		
Volume			



# SAMPLE LOG SHEET

Page 55 of 57

- Surface Soil
- Subsurface Soil
- Sediment
- Lagoon / Pond
- Other \_\_\_\_\_

Case # \_\_\_\_\_

By RP

Project Site Name NW RP Betnpage Project Site Number 3281  
 NUS Source No. BP-SD-200 Source Location cooling pond 2

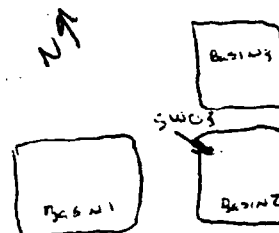
Sample Method: <u>trowel</u>	Composite Sample Data			
	Sample	Time	Color / Description	
Depth Sampled: <u>0-6"</u>				
Sample Date & Time: <u>12-11-91 0825</u>				
Sampled By: <u>RP</u>				
Signature(s): <u>RP 12/5</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite	Sample Data			
	Color <u>tan</u>	Description: (Sand, Clay, Dry, Moist, Wet, etc.) <u>Matches SW-02</u>		
Analysis: <u>VOA</u> <u>BNA</u> <u>total metals / CN</u> <u>Cr+6</u>	Observations / Notes <u>Med to very coarse sand w/ black organic, water clear</u> <u>no elev HNU</u> <u>from process water cooling basin</u> <u>inmed (15 FT) south of north outfall</u> <u>at bottom level of basin.</u>			
<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;">SALT Sheel</div> <div style="border: 1px solid black; width: 50px; height: 40px; margin-right: 10px;"></div> <div style="border: 1px solid black; width: 50px; height: 40px; margin-right: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;">A</div> <div style="border: 1px solid black; width: 50px; height: 40px; margin-right: 10px;"></div> <div style="border: 1px solid black; width: 50px; height: 40px;"></div> </div> <div style="margin-left: 100px; margin-top: 10px;">       ↑ N     </div>		Organic	Inorganic	
	Traffic Report #			
	Tag #			
	AB #			
	Date Shipped			
	Time Shipped			
	Lab			
	Volume			

- Spring
- Lake
- Stream
- Other RECHARGE BASIN

Case # \_\_\_\_\_

By DY

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		SAMPLE TAKEN FROM INFLUENT COOLING WATER  			
Sampled By: D. Yost					
Signatures: D. Yost					
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite					
Analysis: Preservative					
NOA	HCl				
BNA	—				
TOTAL METALS	HNO <sub>3</sub>				
DISSOLVED METALS	HNO <sub>3</sub>				
CYANIDE	N <sub>2</sub> O <sub>4</sub>				
HEX CHROM					
			Organic	Inorganic	
Traffic Report #					
Tag #					
AB #					
Date Shipped					
Time Shipped					
Lab					
Volume					





- Spring
- Lake
- Stream
- Other RECHARGE BASIN

Case # \_\_\_\_\_  
By DY

Project Site Name NW IRP BETHPAGE Project Site Number 3261  
NUS Source No. B P- SW-01 Source Location COOLING POND #

Sample Method: DIRECT		Sample Data			
		pH	S.C.	Temp. (°C)	Color & Turbidity
Depth Sampled: 3"		NA	NA	NA	CLEAR
Sample Date & Time: 12-4-91 1530		Sample TAKEN FROM STORM WATER DISCHARGE POINT.  			
Sampled By: D. Yoshi					
Signatures: D. Yoshi					
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite					
Analysis:					
Preservative					
NOA	HCl				
BNA	—				
TOTAL METALS	HNO <sub>3</sub>				
Dissolved metals	HNO <sub>3</sub>				
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



# SAMPLE LOG SHEET

Page 61 of 64

- Monitoring Well Data
- Domestic Well Data
- Other Prod Well

Case # \_\_\_\_\_  
By RP

Project Site Name NW1RP Bethpage Project Site Number 3281  
NUS Source No. BP-G-PW-10 Source Location Prod Well No. 10

Total Well Depth: <u>500 FT.</u>		Purge Data				
Well Casing Size & Depth: <u>12" 500 FT.</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>unknown</u>						
One Casing Volume: <u>unknown</u>						
Start Purge (hrs.): <u>na</u>						
End Purge (hrs.): <u>na</u>						
Total Purge Time (min.): <u>na</u>						
Total Amount Purged (gal.): <u>na</u>						
Monitor Reading: <u>NO NEW H2O</u>						
Purge Method: <u>Subm pump</u>						
Sample Method: <u>Spigot</u>						
Depth Sampled: <u>~</u>						
Sample Date & Time: <u>12-5-91 0915</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>D. Yost</u>		<u>6.4</u>	<u>80</u> <small>umhos/cm</small>	<u>15.2</u>	<u>3.84 NTU</u>	
Signature(s): <u>RP Yost for DY</u>		Observations / Notes: <u>Bethpage cooling water production well.</u> <u>pump setting 110 ft. 1200 gpm</u> <u>well was running (in-use) when</u> <u>samples - no purge necessary</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite						
Analysis:	Preservative			Organic	Inorganic	
<u>VOA</u>	<u>HCl</u>	Traffic Report #				
<u>BVA</u>	<u>-</u>	Tag #				
<u>tot. metals</u>	<u>H2O2</u>	AB #				
<u>class. metals</u>	<u>H2O2</u>	Date Shipped				
<u>Cd</u>	<u>NaOH</u>	Time Shipped				
<u>Cr+6</u>	<u>-</u>	Lab				
		Volume				



# SAMPLE LOG SHEET

Page 62 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-11 Source Location Prod. well no 11

Total Well Depth: <u>490 FT.</u>		Purge Data				
Well Casing Size & Depth: <u>12" 490 FT</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>unknown</u>						
One Casing Volume: <u>unknown</u>						
Start Purge (hrs.): <u>0920</u>						
End Purge (hrs.): <u>0933</u>						
Total Purge Time (min.): <u>13</u>						
Total Amount Purged (gal.): <u>NO GAGE</u>						
Monitor Reading: <u>NO elev HNU</u>						
Purge Method: <u>Sub. pump.</u>						
Sample Method: <u>Spigot</u>						
Depth Sampled: <u>—</u>						
Sample Date & Time: <u>12-5-91 0925</u>		Sample Data				
		pH	S.C.	Temp. (°C)	Color & Turbidity	
Sampled By: <u>D. Yost</u>		<u>6.4</u>	<u>120</u> <u>umbar/cm</u>	<u>15.1</u>	<u>4.9 NTU</u>	
Signature(s): <u>RPats for DY</u>		Observations / Notes: <u>Bethpage cooling water production well.</u> <u>pump setting 110 Ft. 1200 gpm</u> <u>no gage to measure volume.</u>				
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite						
Analysis:	Preservative	Traffic Report #		Organic	Inorganic	
<u>VOA</u>	<u>HCl</u>					
<u>BWA</u>	<u>—</u>	Tag #				
<u>tot metals</u>	<u>HNO<sub>3</sub></u>					
<u>diss metals</u>	<u>HNO<sub>3</sub></u>	AB #				
<u>CU</u>	<u>NaOH</u>	Date Shipped				
<u>Cr6</u>	<u>—</u>	Time Shipped				
		Lab				
		Volume				



# SAMPLE LOG SHEET

Page <sup>63</sup>~~65~~ of ~~64~~

- Monitoring Well Data
- Domestic Well Data
- Other Prod. Well

Case # \_\_\_\_\_

By RP

Project Site Name NW1RP Bethpage Project Site Number 3281  
 NUS Source No. BP-6-PW-13 Source Location Prod. Well No 13

Total Well Depth: <u>560 FT</u>		Purge Data				
Well Casing Size & Depth: <u>12" 560 FT</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>unknown</u>						
One Casing Volume: <u>unknown</u>						
Start Purge (hrs.): <u>0825</u>						
End Purge (hrs.): <u>0830</u>						
Total Purge Time (min.): <u>5</u>						
Total Amount Purged (gal.): <u>11,400</u>						
Monitor Reading: <u>no elev HAU</u>						
Purge Method: <u>subm pump</u>						
Sample Method: <u>spigot</u>						
Depth Sampled: <u>—</u>						
Sample Date & Time: <u>12-5-91 0830</u>		Sample Data				
Sampled By: <u>D. Yost</u>		pH	S.C.	Temp. (°C)	Color & Turbidity	
Signature(s): <u>RP/AY for DY</u>		<u>7.3</u>	<u>100</u> <u>umhos/cm</u>	<u>11.8</u>	<u>6.9 NTU</u>	
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite		Observations/Notes: <u>Bethpage cooling water production well.</u> <u>pump set at 110 ft.</u> <u>water level unknown</u> <u>well no N-8454 1200 gpm</u>				
Analysis:	Preservative		Organic	Inorganic		
<u>VOA</u>	<u>HCl</u>	Traffic Report #				
<u>DWA</u>	<u>—</u>	Tag #				
<u>tot metals</u>	<u>HNO3</u>	AB #				
<u>disc metals</u>	<u>HNO3</u>	Date Shipped				
<u>Cyanide</u>	<u>NaOH</u>	Time Shipped				
<u>Cr+6</u>	<u>—</u>	Lab				
		Volume				



# SAMPLE LOG SHEET

Page <sup>64</sup> ~~60~~ 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-6-15 Source Location Prod. well NO 15

Total Well Depth: <u>500 FT</u>		Purge Data				
Well Casing Size & Depth: <u>12" 500 FT</u>		Volume	pH	S.C.	Temp. (°C)	Color & Turbidity
Static Water Level: <u>unknown</u>						
One Casing Volume: <u>unknown</u>						
Start Purge (hrs.): <u>0848</u>						
End Purge (hrs.): <u>0853</u>						
Total Purge Time (min.): <u>5</u>						
Total Amount Purged (gal.): <u>17,500</u>						
Monitor Reading: <u>no elev HM</u>						
Purge Method: <u>Sub pump</u>						
Sample Method: <u>Spigot</u>						
Depth Sampled:						
Sample Date & Time: <u>12-5-91 0853</u>		Sample Data				
Sampled By: <u>D. Yost</u>		pH	S.C.	Temp. (°C)	Color & Turbidity	
Signature(s): <u>RP For DY</u>		<u>6.9</u>	<u>60</u> <u>u-mhos/cm</u>	<u>13.6</u>	<u>7.5 NTU</u>	
Type of Sample <input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> High Concentration <input type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Grab - Composite		Observations / Notes: <u>Bethpage cooling water production well.</u> <u>pump set at 110 feet. 1200 gpm</u> <u>water level unknown</u>				
Analysis:	Preservative	Organic		Inorganic		
<u>VOA</u>	<u>HCl</u>	Traffic Report #				
<u>BVA</u>	<u>-</u>	Tag #				
<u>total metals</u>	<u>HNO<sub>3</sub></u>	AB #				
<u>diss. metals</u>	<u>HNO<sub>3</sub></u>	Date Shipped				
<u>Cyanide</u>	<u>NaOH</u>	Time Shipped				
<u>Cr+6</u>	<u>-</u>	Lab				
		Volume				



C



**APPENDIX C**

**BORING LOG SHEETS/CHAIN OF CUSTODY FORMS**

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PAGE

BORING NO.: HJ24-I

PROJECT NO.: 3281

DATE: 10-23-91

DRILLER: MIKE P. (BELTA)

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: YOST / MILMARTIN

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			SPT	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
56 946		12 3 10	1.5 1.5		LENKE	TAN-BROWN BROWN	FINE-COARSE SAND SOME SILT. 1CM THICK CLAY SPT-NOSE AT ~10'	SW	5.4 100-102 E.G. 0.6 ppm H.S. 17.8 ppm 17.8 ppm F.
	1020								
	104								
	106								
	108								
	110								
57 110		11 4 3 4	1.7			TAN-BROWN BROWN GRANSE	TOP 1.2 FINE-COARSE SAND TR SILT SOME SILT FINE-COARSE SAND SOME SILT TR BRN CLAY LENS 5-10" 1/2 CM THICK	SW	5.7 102-104 H.S. 0.4 ppm H.S. 7.4 ppm THIS ABOVE BACKGROUND
	112								
	114								
	116								
	118								
	120								
8 115		10 2				BROWN GRANSE	TOP FINE-COARSE SAND LIGHT LENS	SW	H.S. 14.0 13.8 ppm above background
	122	3 3	7.0						
	124								

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING HJ24 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: YJET / KILMARTIN

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (FT) OR RUN NO.	BLOWS 5" OR ROD (FT)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, Ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	CORRECTIONS	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION					
	126											
	128											
	130											
SP-1 1318		24 54				DENSE GRAY-WH ORANGE	TOP 0.5' FINE SAND SOME SILT TO CLAY	SM			5-9 130-132 B.G. - 0.2 PPM	
	132	60 54	1.8 2.0			DENSE GRAY	SECTION 13' FINE-MED SAND COM. SILT	SM			H.S. 33 PPM 32.6 PPM ABOVE BACKGROUN.	
	134											
	136											
	138											
	140											
SP-2 1500		7 27										
	142	40 36	1.8 2.0			GR-142 TOP 11" COARSE SAND BLOCK BOTTOM 11" EXTREMELY DENSE & HARD CLAY					5-10 140-142 P.S. 0.2 PPM H.S. 20.0 PPM 19.8 PPM ABOVE BACKGROUN.	
	144											
	146											
	148											
SP-3 1538		14 35				GR-148 12" MEDIUM TO COARSE SAND BLK (BN) 3" DENSE BLACK CLAY BN 2" MEDIUM SAND PPL-GY 2" PURPLISH TO GRAYISH SAND BRN 4" BROWN MEDIUM SAND					5-11 148-150 B.G. 0.2 H.S. 80.0 79.5 above backgr.	
	150	60 75	2.0 2.0									

REMARKS Final sample 148-150' Driller Drilled to 155' to provide  
rathole for logger.  
250 gallons of water were added to hole to  
control running sands during drilling.

BORING HN 24 I

PAGE 6 : 6

LC22

# GAMMA RAY LOG BY

DELTA WELL & PUMP CO., INC.  
97 Union Avenue P.O. Box 1309  
RONKONKOMA, N.Y. 11779  
(516) 981-2255

JOHNSON-KECK GR-73

GAMMA RAY LOGGING SYSTEM

WELL 24 I, SITE 4

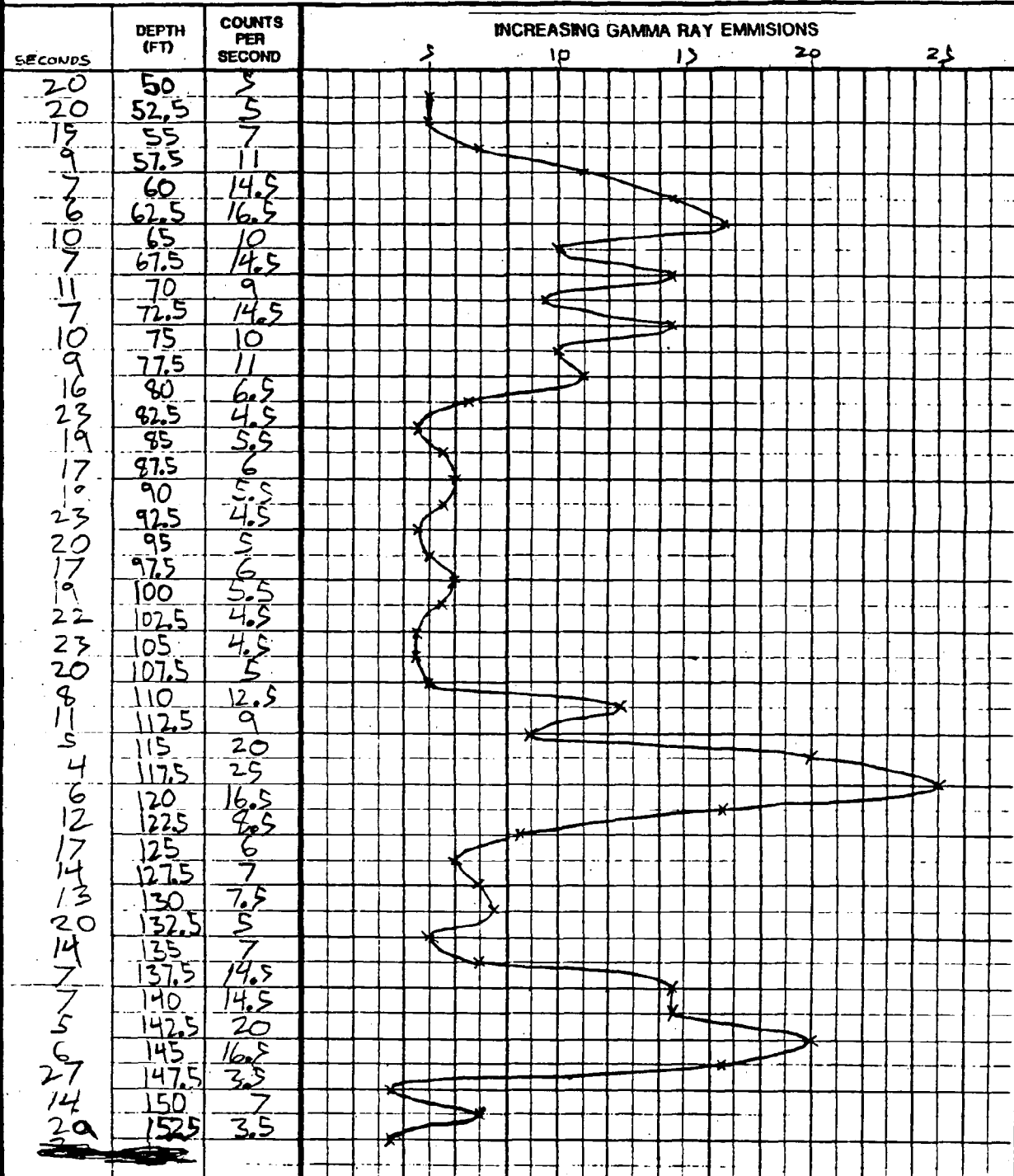
OWNER NAVY/HALLIBURTON NUS

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. Okan

COUNTS SETTING (GR-73) GM/100 RANGE SETTING (GR-81) \_\_\_\_\_ TIME CONSTANT (GR-81) \_\_\_\_\_



Logged thru 3 1/4" ID Augers.  
 All depths measured to top of probe. Probe is 18" long. SWL 50'

**BORING LOG**

**NUS CORPORATION**

PROJECT: CETH PAGE

BORING NO.: HN75-5

PROJECT NO.: 5281

DATE: 7-5-91

DRILLER: JAY FLECK (NDEC)

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: D YC-T

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			REMARKS	
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	30			50		tan on black	3" GRAVEL LAYER ON TOP SAND SILT, CLAY-FILL		
	20								
	40								FILL-5
	60					TAN BROWN		FINE-COARSE SAND AND SUB-ROUNDED GRAVEL < 3/4 INCH	
	80								INSTRUMENT IS UNAVAILABLE
	100								
	120								
5-1 0949	120	6	1.0			TAN MEDIUM DENSE REDDISH BROWN		FINE-COARSE SAND AND SUB-ROUNDED GRAVEL < 3/4 INCH TR SILT	SW DAMP HNW OR BLW CON. T. N. REPR. REPRESENTATIVE OF SOIL DENSITY
	140								
3-2 0957	160	4	0.8			MEDIUM TAN BROWN		FINE-COARSE SAND AND FINE SUB-ROUNDED GRAVEL < 1/2 INCH	SL DAMP
	180								
	200								
	220								
	240								

REMARKS: SEE TO BE 6" ENCL. HCA 140' HORIZ. LAYER 30' FOR  
7" L. FROM STEEL.

BORING HN75-5  
 PAGE 1

**BORING LOG**

**NUS CORPORATION**

PROJECT: S&M PAGE

BORING NO.: HW 25-5

PROJECT NO.: 3761

DATE: 9-5-91

DRILLER: JAY FLECK (UNITEC)

ELEVATION:

FIELD GEOLOGIST: D. Yost

WATER LEVEL DATA:

(Date, Time & Conditions)

SAMPLE NO. OR B TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			S O B O U N D E R C O N D I T I O N S	REMARKS
					SOL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	26.0	6				TAN	FINE-COARSE SAND AND		
3 1212		10 9	12 2.0			LT BROWN	F.M. SUB-ROUNDED GRAVEL 1/2"	SW	3-20-77 TANK - 1212 11-15-77
	28.0								
	30.0								
4 1176	32.0	11 19	1.0 2.0			LT BROWN	FINE-COARSE SAND AND SUB-ROUNDED GRAVEL 1/2"	SW	3-20-77 TANK
	34.0								
5 1238	36.0	7 9	1.7 2.0			TAN	FINE-COARSE SAND AND S.F.	SW	3-20-77 TANK
	38.0								
	40.0								
6 1257	42.0	16 18	1.0 2.0			TAN	FINE-COARSE SAND AND S.F.	SW	3-20-77 TANK
	44.0								
	46.0								
7 1211	48.0	11 12	2.0 2.0			TAN	FINE-COARSE SAND AND S.F.	SW	3-20-77 TANK
	50.0								

REMARKS

BORING HW 25-5

PAGE 3 OF 3



**BORING LOG**

**NUS CORPORATION**

PROJECT: MWIRP 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 ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Dobson, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		SPT CORRECTION	REMARKS
					SOL. DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR		
								HNu Elevation (HS-BG)
	52							BG- Background HNu
	54							HS = Headpiece HNu
	56							
	58	20 34						
1340		44 43	16/24		BLK	4" Asphalt & fill (no clay plug)		
	60							
	62							
	64							Driller notes formation is very tight & hard to drill: unusual for this shallow a depth
	66							
	68							
	70	6 16			BRN LT GY	2" Gravel 2" silt & fine sand	6.6	DE: 3.0 HS: 9.6
1430		21 21	16/24		BLK-GY LT GY	3" silt & fine sand 9" vert coarse sand		
	72							
2nd day								
11/11	74							

REMARKS \_\_\_\_\_

BORING HN 25

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 ROD	DEPTH (ft.) OR ROD RUN NO.	BLOWS 5' OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			CORRECTION FACTORS	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	76								← HALL ELEVATION (45-86)
	78								
	80	10 12							
1282		11 16	24 24		lt-brn TC		24" VERY UNIFORM, MEDIUM TO COARSE SAND	10.8	BE 0.4 AS 11.2
	82								
	84								
	86								
	88								
	90	12 30			LT TAN		21" Med. TO coarse sand	10.6	BE 0.4 HS 11.0
1315		33 40	24 24		lt-brn		3" fine TO med sand with thin bands of iron-staining		
	92								
	94								
	96						6' of leave at 100'		
	98						Driller reports formation still 'tight' & hard to drill.		
	100	14 25					NO recovery: T.A. broke		BE HS

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING H125  
 PAGE 2 of 8

**BORING LOG**

**NUS CORPORATIC**

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 5" OR ROD (N)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		S U B S E R E C O N S E R V E S	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR		
1634		28 38	0 24					← Mud Elevatic (HS-BE)
	102							
		5 14		Sample 103-105	LT. GR TO BLK	6" Fine to med. sand	8.2	BE 1.4 HS 9.6
1720	104	22 22	24 24			LT. GR	18" EXTREMELY STICKY AND DENSE CLAY.	
						OUTSIDE OF SPORN CALIB WITH STICKY CLAY		
	106					DRILLER FELT HE WAS OUT OF THE CLAY BELOW 105', DRILLED PLUS 1 FT. OF LEAVE AT 110 FT.		
	108							
1755							8.4	BE 1.2 HS 9.6
	110	10 17 17 18			LT. GR LT. GR LT. GR CYAN	5" COARSE SAND 7" GRAY, VERY STICKY CLAY 6" FINE SAND 4" SILT & FINE SAND 2" SILT & FINE SAND		
	112							
	114							
	116					6 FT OF LEAVE AT 120 FT.		
	118							
	120	8 11			LT. GR LT. GR	12" FINE TO MEDIUM SAND 1" CLAY	9.0	BE 1.2 HS 10.3
1835		21 34	24 24		LT. GR LT. GR TO BLK	2" CLAYEY TO SILTY FINE SAND 9" MED TO COARSE SAND WITH DISTINCT FINE BINDER IN COLOR, NO LIGHT.		
END DAY								
11/2	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 ROD	DEPTH (ft.) OR RUN NO.	BLOWS 5" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Dist. Ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	126						21 ft. of heave at 130'	
	128							
	130	5 31			LT. BRN		24" 'Runny' silt & fine sand with very rare & thin layers of lt. gray clay	10.2 BE 1.0 HS 11.2
0819		116 Ref.	24/24		LT. GR			SAMPLE SEaled 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 DETRITIC & PACKING bailed
	138						16 ft. of heave at 140'	JUST AS IN SAMPLE JAR ABOVE. MATERIAL IS FAIRLY CLEAN AND WELL SORTED.
	140	6 16			LT. GRAY		22" Clean, well sorted, fine to med. sand	
0940		31 37	24/24		GY		2" clayey silt	10.8 BE 0.4 HS 11.2
	142							
	144						4 ft of heave at 150'	Heave is a very fine grained, uniform sand.
	146							
	148							
	150	14 33			GY		2" clean, medium sand	11.6 BE 0.4 HS 11.0

← Hall Elevation (HS - BG)  
REMARKS

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 ROD	DEPTH (FT) OR RUN NO.	BLOWS 5' OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, Ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		CORRECTIONS	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR		
1103		64 100	24 24			GR-BEN	Fine grained sand with occasional clayey streaks (12")	
	152							
	154						10 ft of heave at 166 ft.	Heave is a very uniform, medium-grained sand, orange-brown in color.
	156							
	158							
	160	6 26				LT. BEN	10" Fine to med. sand w/ clay streaks	BE C.4 HS 9.6
1218		35 100	20 24			LT. EY TO GR-BEN	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				DR. EY LT. BN	3" MED SAND 3" SILTY TO FINE SAND	8.6
1357		54 100	8 24			LT. EY	2" CLAYEY SILT WITH MINOR AMOUNTS OF FINE SAND	BE 1.0 HS 9.6
	172							Driller notes possible gravel layer; gravel retrieved while bailing heave; exploring
	174						Spoon "JUCK" in formation during sampling, great difficulty in retrieval. (>3 hours)	Stuck spoon and poor recovery??

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING Hri 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 ROD NO.	DEPTH (ft.) OR RUN NO.	BLOWS 5" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		SPT NO. OR CONC. SEC. 15'	REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR		
	176							
	178					12 ft of heave at 180 ft.		Heave is a silt or very fine grained sand
	180	8 22						
B12		36 32	19 24		GY TO LT. BRN	4" SILTY FINE SAND WITH SOME INTERMIXED AND DISCRETE CLAY HORIZONS	8.4	BE 10.0 HS 9.4
END DAY	182							
11/13								
	184					4 ft. of heave at 190 feet.		
	186							
	188							
	190	4 2			LT. GR-BRN	11" MEDIUM TO COARSE SAND	4.0	BE 0.8 HS 4.8
0328		1 4	24 24		LT. GR	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 IN THE BREATHING 20
	198					Heave is a very light brown, fine to medium sand.		
0930	200	2 3			LT. GR	14" uniform, medium sand	10.2	136 0.6 HS 10.8

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING HN 25  
 PAGE 6 : 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 ROD	DEPTH (ft) OR RUN NO.	BLOWS 5" OR ROD (%)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			BUREAU OF SOILS	Hm Elevation (HS - BG) REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
		20 26	24 24			GY	SILTY FINE SAND WITH MINOR AMOUNTS OF CLAY		
	202								
	204						5 feet of leave at 200 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 leave at 220 ft.		leave 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, ACW, & 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 : 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			B O R E L O G S C O N D I T I O N S	REMARKS
					SOB DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	226								← Hole Elevation (HS - BE)
	228								
	230	16 11							
1245		18 2.5	24 24		LT GRAY BROWN		FINE-MEDIUM SAND WITH SOME SILT HEAVE?	10.2	BE 0.4 ppm HS 10.6 ppm Spoon stuck in hole Withdraw at 3:00
	232								
	234								
	236								
	238								
	240								
	242								
	244								
	246								
	248								
	250								

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING HW 25  
 PAGE 8 of 8

LC22

# GAMMA RAY LOG BY

DELTA WELL & PUMP CO., INC.  
97 Union Avenue P.O. Box 1309  
RONKONKOMA NEW YORK 11779  
(516) 981-2255

25  
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. Allegriano BOREHOLE DEPTH \_\_\_\_\_ 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	INCREASING GAMMA RAY EMISSIONS			
			5	10	15	20
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	9.5				
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	9.5				
15	157.5	6.5				
9	160	11				
17	162.5	6				

SWL vs 50 feet

Borehole logged thru 3/4" 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  
ROCKONKOMA, NEW YORK 11779  
(516) 981-2235

JOHNSON-KECK GR-73

GAMMA RAY LOGGING SYSTEM

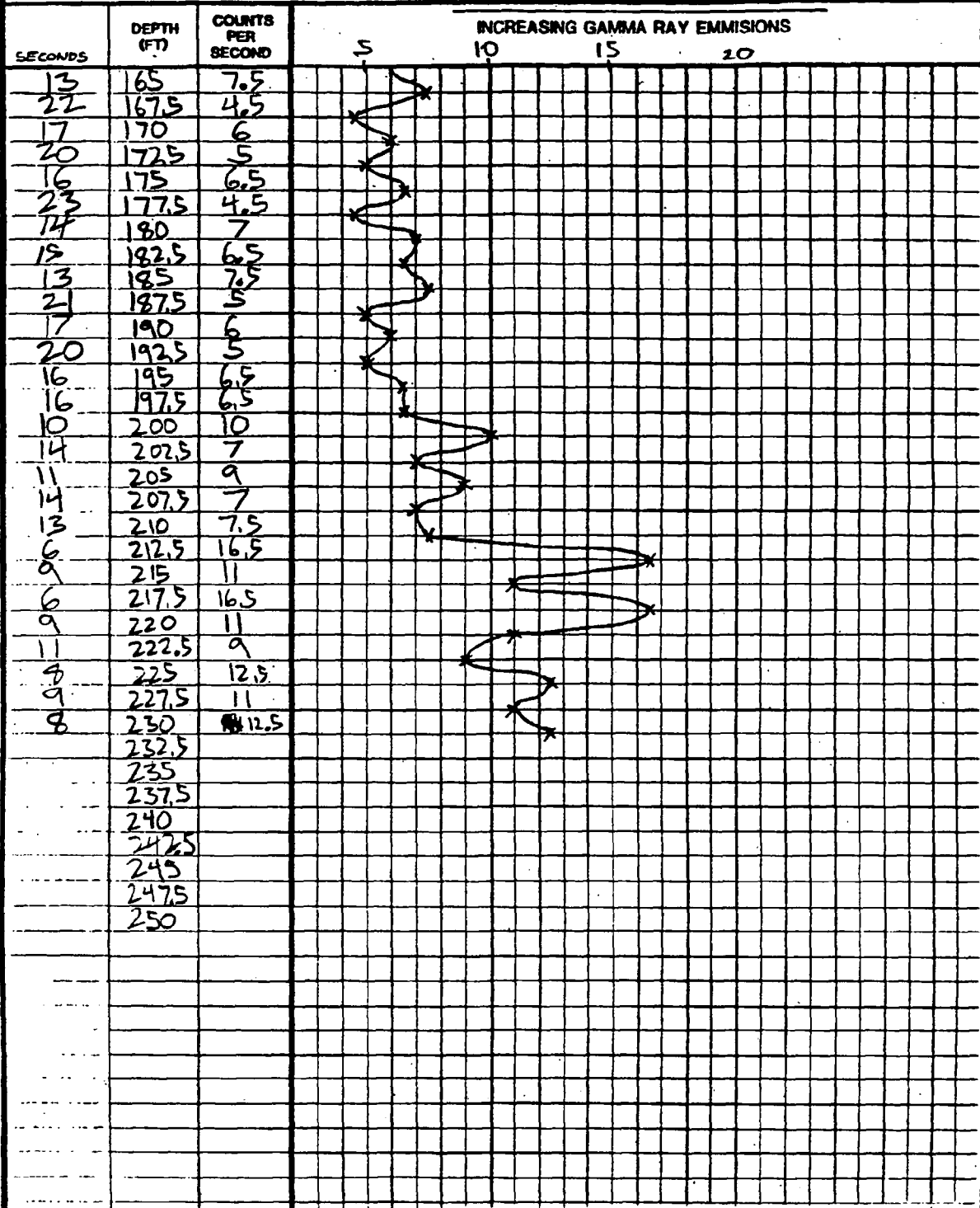
WELL 290 SITE 3 OWNER \_\_\_\_\_

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) \_\_\_\_\_



**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PAGE  
 PROJECT NO.: 3281  
 ELEVATION: \_\_\_\_\_  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

DATE: 9-5-91  
 FIELD GEOLOGIST: FRED W RAMBER

BORING NO.: HN 26-S  
 DRILLER: BILL

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOW-5' OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
						DAK DAW	SANDY SILT W/TK GRAVEL	
	2							
	4					BRN	GRAVELLY SAND W/SILT	SW GRAVEL & 2" to 4" SUBANGULAR
	6							
	8							
	10							
S-1 2520		13 37						S-1 GRAVELS ARE < 2.0 in. SUBANGULAR
	12	17 32	1.0 2.0		DENSE	LIGHT BROWN	FINE TO COARSE SAND W/TK GRAVEL TR/SILT	SW
	14							
S-2 2520	16	22 36	.8 2.0		DENSE	LIGHT BROWN	FINE TO COARSE SAND W/TK GRAVEL TR/SILT	SW S-2 B.L.K. S-1 SIZE PARTICLES GRAVELS & 1.5 IN SUBANGULAR
	18							
	20						GRAVEL LENS AS NOTED BY CUTTING @ 18 TO 19 FT	
	22							
	24							
							AS ABOVE S-2	

REMARKS B59 RIG, 6 1/2" ID HOLLOW STEM AUGER, 14016 42-HEI C.I. S&W PUMP  
FLUSH MOUNT  
WL @ 46' MEASURED @ 1145  
WL @ 46' MEASURED @ 1245

BORING HN 26-S  
 PAGE 1 OF 3

PROJECT: BETH PAGE

BORING NO: HU 263

PROJECT NO.: 3281

DATE: 7-5-91

DRILLER: BILL JESTER

ELEVATION:

FIELD GEOLOGIST: FRED W. BERRY

WATER LEVEL DATA:

(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 5' OR ROD (%)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (Depth ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
S-3 18-17	26	3 13 17 12	1.2 2.0		MEDIUM DENSE	Light Brown	MED TO FINE SAND W/CLAY	S-3 MOIST SAND
	28							
	30							
S-4 18-17		10 12			MEDIUM DENSE	Light Brown	MED TO FINE SAND SILT W/CLAY SILT CLUMBS	S-4 SANDY SILT @ 31'
	32	9 14	1.8 2.0					
	34							
S-5 18-17	36	12 30 34 30	2.0 2.0		DENSE	Light Brown	TOP 1" SILTY CLAY LEVS. BOTTOM 1" MED TO COARSE SAND	S-5 FERTILE WATERS TO 41' WITH TOP TO 41' WATERS CRAUL & ZINDIA
	38							
	40							
	42	9 11 14 13	1.2 2.0		MEDIUM DENSE	Light Brown	TOP 1" COARSE SAND BOTTOM 1" MED TO FINE SANDS TR/FINE SANDS	S-6 SATURATED
	44							
S-7 18-17	46	9 15 17	1.2 2.0		TAU MITTED BAND LAYERS	Medium Dense	MED TO FINE SANDS SILTY CLAY LEVS AT TOP	S-7 MOIST SAND
	48							
	50						AS ABOVE	

REMARKS OPERATING WITH HU PERCUSSION UNIT AT 30' - 41' PERCUSSION UNIT AT 41'

BORING HU 263

PAGE 2 OF 3

46/1/91

PROJECT: BETHPAGE

BORING NO: HN-265

PROJECT NO.: 3281

DATE: 7-5-91

DRILLER: Bill

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: FRED W. DAVIS

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD NO.	DEPTH (IN) OR RUN NO.	BLOWS 5" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, Ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			SPT CORRECTIONS	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
S-3 1A25		3 5							S-3 SEPARATED HIT WATER @ 49'
	52	9 23	2.0 2.0		MEDIUM DENSE	LIGHT BROWN		SM	SANDS CONTAINING WITH BRN LAYERS @ 1" SPACING
	54								
S-9 1115	56	3 6			DENSE	WHIT	FINE TO COARSE SAND	SM	S-9 WITH 5" SPACING @ 1115, 1120
	58	22 40	2.0 2.0						
	60								
									WATER MEASURED @ 48' @ 1120 Bottom @ 55'

REMARKS PVC SCREEN 4" ID, 10" INTERVAL 56' TO 60'

47.5" @ 1138

46.1" @ 1145

46.8" @ 1150

BORING HN 265

PAGE 3 OF 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: NW1/4 RETHPAGE

BORING NO.: HN-26 I PILOT

PROJECT NO.: 3281

DATE: 10/28/91

DRILLER: DELTA (MIKE FELLEGRINO)

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: KILMARTIN

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (ft)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		SOUNDNESS TESTS	← HNU Elevation	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR			
	50	12				BRN		2.8	HNU BACK: 1.4 HNU HS: 4.2
S1 1398		8 7	18 24			LT. BRN TO GREY	14" MEDIUM GRAINED, WELL-SORTED SAND		LOW: 18" & SAND WET. SH RECOVERY IS WET. Sample warmed in TRUCK before reading.
	52								
	54								
	56								Driller reports 5 feet of heave at 60 feet
	58								
S2 1500	60	14 28 38 54	14 24			GY-WT BRN	4" VERY COARSE SAND 16" S. LTY TO FINE SAND	3.6	HNU BACK: 1.0 HNU HS: 4.6 Sample warmed in TRUCK before reading.
	62								
	64								
	66								
	68								
S3 1528	70	20 27 27 25	18 24			LT. GR	LT GR; MEDIUM TO COARSE SAND WITH V. F. V. T. CLAY STREAKS	3.4	HNU BACK: 1.4 HNU HS: 4.8 Sample warmed in TRUCK before reading
	72								
	74								

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING HN26 I  
 PAGE 1 OF 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 ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			S U B S E R C O N S I D E R S	HNU Elevation REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	76								
	78								
	80	10 50							
54 1664		68 73	24 24		brn		24" English-Brown, uniform, coarse sand	3.4 HNU BACK: 1.8 HNU HS: 5.2	
	82							Sample returned in bucket 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	
55 1650		49 52	19 24					Sample returned in bucket before reading	
	92								
	94								
	96								
	98						DRILLER REPORTS 1 foot of hole at 98 feet		

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING HN 261  
 PAGE 2

**BORING LOG**

**NUS CORPORATION**

PROJECT: ..... BORING NO.: .....  
 PROJECT NO.: ..... DATE: 10/28 - 10/29 ..... DRILLER: .....  
 ELEVATION: ..... FIELD GEOLOGIST: KILMACTIN .....  
 WATER LEVEL DATA: .....  
 (Date, Time & Conditions) .....

SAMPLE NO. S TYPE OR SOD	DEPTH (ft.) OR RUN NO.	BOWS 5" OR ROD (%)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			S O U L C O N S I S T E N C Y	HNU ELEVATION REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	100	4 22							
56 1735		30 36	22 24		6Y-BN 6Y 6Y-BN	4" 6" 2"	SILTY CLAY CLAY SILTY SAND	3.6	HNU BACK 1.4 HNU HS 5.0 Sample returned on TRUCK before recording
	102								
	104								
	106								
	108								
	110	16 30			6Y-BN 6Y-BN 6Y	12" 4" 8"	COARSE SAND SILTY CLAY SILTY SAND	3.8	HNU BACK: 1.4 HNU HS. 5.2 Sample returned on TRUCK before recording
57 1865		35 45	24 24						
	112								
	114								
	116								
	118								
4/29									
	120	7 27							
58 5866		37 40	3 24		POW	3"	MEDIUM SAND	2.4	HNU BACK 1.0 HNU HS 3.4
	122						POOR RECOVERY. TRAP IS CLEAN. NO APPARENT REASON FOR POOR RECOVERY. EMPTY SAND IS "LEAN" FACT LEST RECOVERY.		Sample returned on TRUCK before recording.
	124								

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING HNU 26 J  
 PAGE 3

**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 IN 1' OR RUN NO.	BLOWS 1" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, Ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			CORRECTION	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	126								
	128								
	130	9 15							
S9 CS54		25 35	24 24					3.2	Hand Back: 1.2 Hand HS: 4.4 Sample warmed in truck before reading
	132								
	134								
	136								Driller reports 4 feet of heave at 140 feet.
	138								
	140	6 11							Hand Back: 1.0 Hand HS: 5.0 Sample warmed in truck before reading
S10 1005		46 55	12 24						
	142								
	144								
	146								
S11 1053	148	10 16 26 33	19 24						Hand Back: 1.4 Hand HS: 6.0 Sample warmed in truck before reading.

150'  
 REMARKS Driller drilled to 155 feet to provide 5 feet of izothene for gamma log.

\* 800 gallons of water added to borehole during drilling.

BORING HNJ 261

PAGE 4 :



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

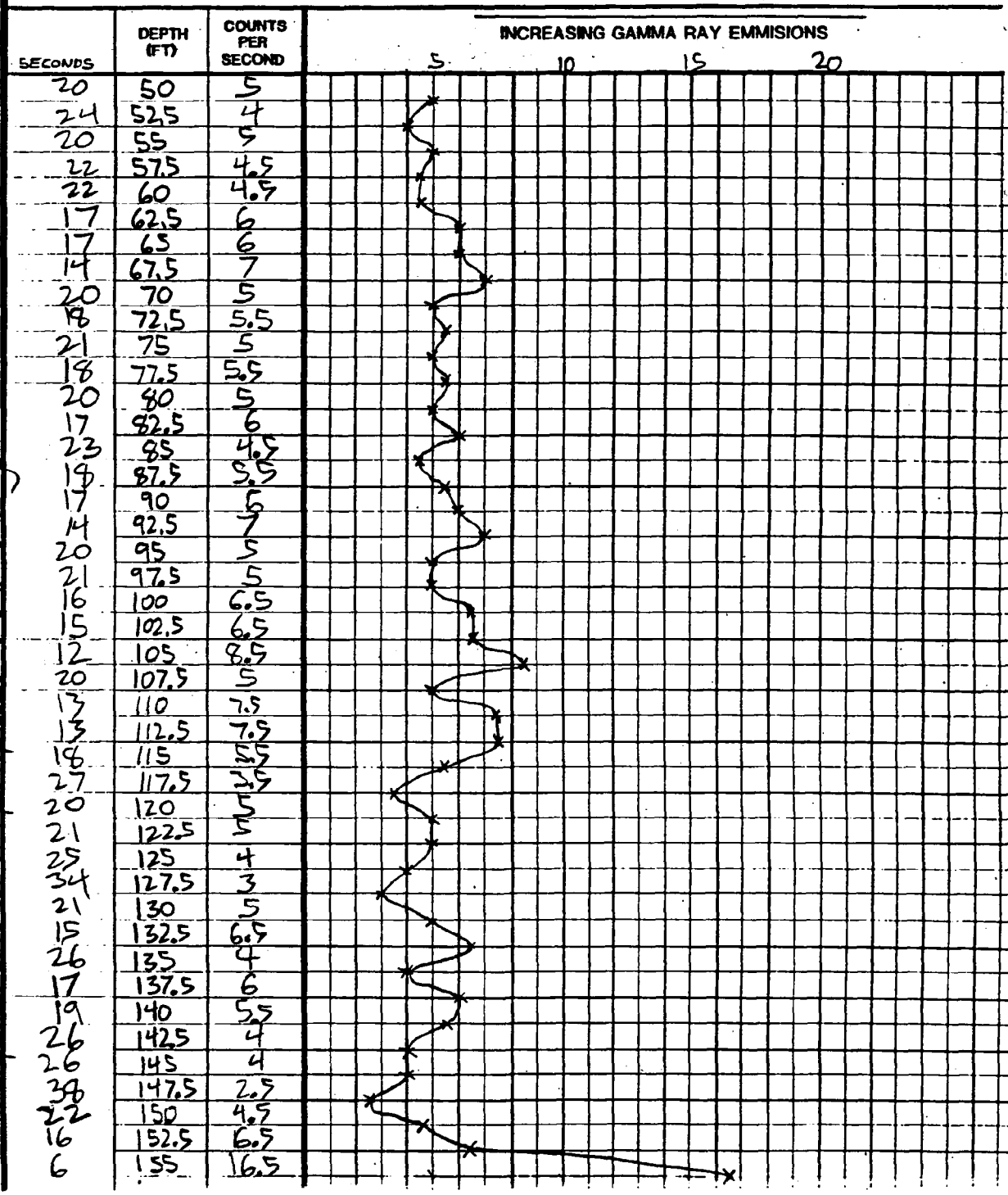
OWNER NAVY/HALLIBURTON NUS

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) GM/100 RANGE SETTING (GR-81) \_\_\_\_\_ TIME CONSTANT (GR-81) \_\_\_\_\_



SWL 50'

Borehole logged thru 3/4" ID augers. All depths measured to top of probe. Probe is 18" long.

**BORING LOG**

**NUS CORPORATION**

PROJECT: SETH PAGE BORING NO.: HN 27-J  
 PROJECT NO.: 3261 DATE: 10-31-91 DRILLER: MIKE P. (ORLIK)  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: YOST / HILMA PINN  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (FEET) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (DOWN) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			SPT CORRECTIONS	REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	4.0								HS - HEADSAMP .66 - BACKLOGGING
	48.0								
S-1 1505		7 9			STIFF BROWN		SANDY CLAY WITH SILT 48-49	CL	S-1 48-50' HS. 6.8 ppm
	50.9	25 30	7.0 2.0		DENSE TAN WHITE		SILTY SAND TO CLAY TR. GRAVEL SAND IS FINE-COARSE GRAINED	SM	B6 1.2 ppm S.6 B6 ABOVE R.G.
	52.0								
	54.0								
	56.0								
	58.0								
	60.0								
S-2 181E		14 15			DENSE TAN (LIGHT)		FINE-COARSE SAND WITH SOME SILT	SW SP	S-2 60-62' HS. 1.6 ppm HS. 7.4 ppm S.6 B6 ABOVE R.G.
	62.0	17 30	1.8 2.0						
	64.0								
	66.0								
	68.0								
	70.0								

REMARKS F-10 R.G. 3" INCH I.D. HOLLOW STEM AUGERS. 2" I.D. SPLIT SPOONS TAKEN  
 BY 30" DROP OF 140 LB HAMMER  
 SAMPLES V.F.F. VAPORED IN VAIN ESTD. TAKEN WITH HNU

BORING HN 27-J  
 PAGE 1 OF 5

**BORING LOG**

**NUS CORPORATION**

PROJECT: ... & E.T.H. PAGE ..... BORING NO.: HN 27-E  
 PROJECT NO.: 320 ..... DATE: 11-1-91 ..... DRILLER: MIKE P. (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 ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, Ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		SPT CORRECTIONS	REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR		
S-3 K&Z	72.0	16	10 70		V. DENSE	WHITE-LT GRAY	SM	S-3 70-72' 1.6 - 1.8 4.5 - 7.0 5.7 FPM ABOVE R.C.
		53						
	74.0	43						
	76.0	43						
	78.0							
	80.0							
S-4 Q&D	82.0	2	19 70		DENSE	TAN-BROWN GRAY	SM	S-4 80-82' 1.6 - 3.0 4.5 - 5.7 4.9 FPM ABOVE R.C.
		17						
	84.0	21						
	86.0	31						
	88.0							
	90.0							
S-5 Q&D	92.0	16	19 70		DENSE	TAN-BROWN GRAY	SM	S-5 90-92' 1.6 - 1.8 FPM 4.5 - 7.8 FPM 6.6 FPM ABOVE R.C.
		20						
	94.0	27						

REMARKS: SAMPLES WERE WATERSATURATED IN VAN DER GRIFT TANK AT 70' & 92'

BORING HN 27-E

PAGE 2 OF 5

**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 ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (N)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			SPT CORRECTION	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	96.0								
	98.0								
	100.0								
S-6 S917		19 32			LENSE	TAN- BROWN	SILTY SAND TO CLAY LENS	SM	S-6 100-107 EG 0.8 FT H 5 2.1 FT 73 1.4 ABOVE EG
	102.0	35 53	2.0 2.0			GRAY	LENSE SAND IS V. FINE - MEDIUM GRAINED CONTAINS MICA FLAKES		
	104.0								
	106.0						CLAY SAND IN CUTTINGS		
	108.0								
	110.0								
S-7 S918		25 34			LENSE	BROWN	SILTY SAND TO CLAY LENS	M	S-7 110-112 EG 1.0 H 5 7.7 6.7 1.0 ABOVE EG TOP 1.0 FT SAMPLE SHOULD BE HEAVY
	112.0	53 50	2.0 1.0			GRAY	LENSES SAND IS V. FINE - MEDIUM GRAINED		
	114.0								
	116.0						CUTTINGS - MEDIUM GRAIN BROWN SILTY SAND		
	118.0								
	120.0								

REMARKS ALL SAMPLES WERE HEATED IN VAC BEFORE BEING SCANNED

11-2-91

BORING HN77-I

PAGE 3 OF 5

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PAGE ..... BORING NO.: HN 77-J  
 PROJECT NO.: 3291 ..... DATE: 11-1-91 ..... DRILLER: MIKE P. (DELTA)  
 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			SOUNDINGS	REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
S-2 1055	122	12	1.0 70		V. DENSE	MOTTLED TAN-BROWN-GRAY-RED	SILTY FINE SAND TO CLAY	SM	S-2 120-122 P.C. 1.6 PM H.S. 6.4 MM F.L. 1.00 A.M. 1
		18							
		27							
		38							
		124							
126									
128									
130									
S-9 1135	137	9	1.7 70		LENSE	MOTTLED TAN-BROWN-GRAY-RED	SILTY SAND TO SOME CLAY	SM	S-9 135-137 P.C. 1.2 PM H.S. 6.6 PM F.L. 1.00 A.M. 1
		26							
		27							
		31							
		134							
136									
138									
S-10 1228	147	15	1.8 70		DENSE	TAN-BROWN-GRAY-RED	SILTY SAND TO CLAY	SM	S-10 140-142 P.C. 1.8 PM H.S. 6.4 MM F.L. 1.00 A.M. 1
		31							
		47							
		144							
		144							

REMARKS ALL SAMPLES WERE TAKEN IN CAP BESSER BENCH SURFACE WITH HNU

BORING HN 77-J  
 PAGE 4 OF 5

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PAGE

BORING NO.: NN27-1

PROJECT NO.: 328

DATE: 11-1-91

DRILLER: W. K. F. (L-57A)

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 (N)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			CORRECTIONS	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	146								
	148								
2-16 1400		23 24			FINSE	RED	SILTY SAND TR. CLAY	SM	5' - 148-150 1.6 - 2 PK N.S. 7-4 PPM S.M. FROM ABOVE R.E.
	150	10 6	20 10				SAND IS FINE - MEDIUM		

REMARKS SAMPLE WAS KEPT IN URN BEFORE BEING SAMPLED WITH HWU

BORING NN27-1

PAGE 1 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

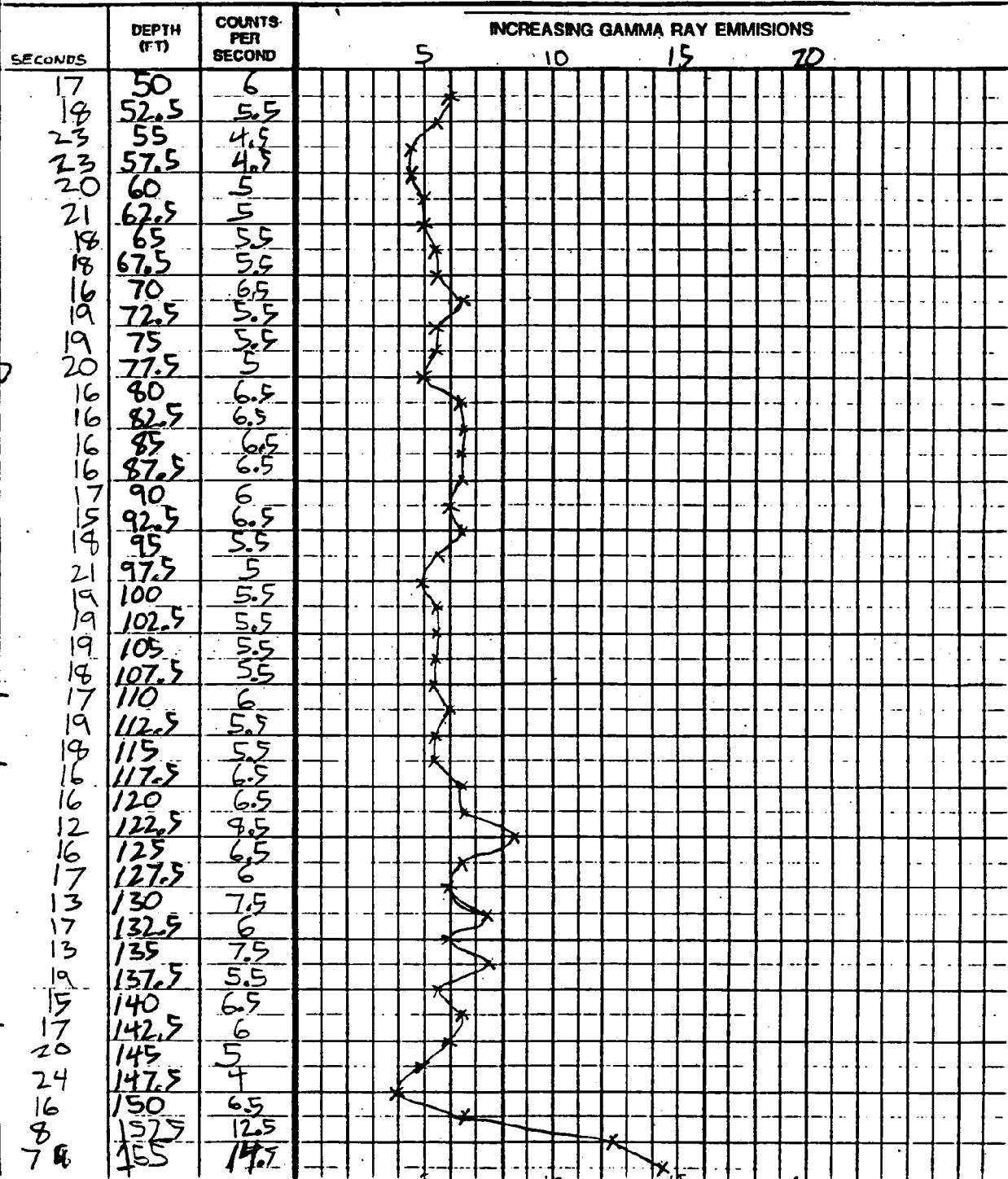
MEASURING POINT 0 feet above/below ground level DATE 11-1-91

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) \_\_\_\_\_

Borehole logged through 3/4" ID augers.  
All depths measured to top of probe. Probe is 18" long. SWL is 46 feet



**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PAGE  
 PROJECT NO.: 3281  
 ELEVATION: \_\_\_\_\_  
 WATER LEVEL DATA: \_\_\_\_\_

DATE: 9-3-91  
 FIELD GEOLOGIST: D. Yocet

BORING NO.: HN28-S  
 DRILLER: UTD JAY

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (ft)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	0.0					DK BK BROWN	SANDY SOIL	(HUU)
	2.0					BROWN	SANDY SILT w/ FINE GRAVEL	
	4.0							
1055 S-2	6.0	5			MED DENSE	BROWN	FINE TO COARSE SAND w/ SOME SILT & GRAVEL	SW S-1, GRAVEL SUBPANCIL (8.2 ppm) DAMP
		7	1.8					
		8	2.0					
	8.0							
	10.0							
1110 S-2	12.0	10			DENSE	BROWN	FINE TO COARSE SAND w/ SOME SILT & GRAVEL	SW S-2, GRAVEL SUBPANCIL (11.9 ppm)
		15	2.0					
		17	2.0					
	14.0							
	16.0							
1120 S-3	18.0	2			MED DENSE	BROWN	GRAVELLY FINE TO COARSE SAND w/ SILT	SW/GC S-3 GRAVEL F 10.15" dia (1.8 ppm) SUBPANCIL MOIST
		8	1.8					
		10	2.0					
	20.0							
	22.0							
	24.0							
							AS ABOVE	

REMARKS 2' ID SPACING FOR LITHOLOGICAL SAMPLES, 6 1/4" ID HOLLOW STEM AUGER,  
CME 75 RIG 14016 HAMPER DRILLED 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 JAY

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: A. Yost

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BOWLS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Down ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	MOISTURE CONTENT (%)	REMARKS
5-4 11-30	26.0	2 7	1.5 2.0								(HNU) 5-4 HARD GRAVEL ZONE - DAMP 3.8pp TOP OF GRAVEL AT THIS LEVEL
	28.0	7 10									
	30.0										
5-5 11-40	32.0	5 9	1.5 2.0								5-5 TR (BLACK FINES) GRAVEL WALL FOUND @ 31.00 ft. SLIGHTLY MOIST 3.8pp
	34.0	8 9									
5-6 11-50	36.0	11 16	1.6 2.0								5-6 MOIST 2.8pp
	38.0	20 24									
	40.0										
5-7 12-00	42.0	10 18	1.8 2.0								5-7 MOIST 1.1pp
	44.0	30 25									
	46.0	12 14									
5-8 12-07	48.0	16 20	1.8 2.0								5-8 HIT SATURATED @ 46.5 1.4pp
	50.0										AS ABOVE

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING HN28-S  
 PAGE 2 OF 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PAGE BORING NO: HN-285  
 PROJECT NO.: 2281 DATE: 9-3-91 DRILLER: LTD. 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			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
5-9 1220		17 10					AS ABOVE	5-9 HU
	52	18 26	20 2.0		MEDIUM DENSE	TALTY BROWN	MED TO FINE SAND W/CLAY LAMS (TWO)	SW LEAK @ 3' THICK + 6' THICK (LIFT) SATURATED
	54			54.0			↓	
	56							
	58							
	60							
							BOTTOM OF HOLE @ 54'	
							WL LEVEL @ 46'	

REMARKS PVC SCREEN SET @ 44' TO 55'

BORING HN285  
 PAGE 3 : 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETHPAGE BORING NO.: HNZ8-1  
 PROJECT NO.: 3281 DATE: 11-6-91 DRILLER: MIKE P. (DELTA)  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: Kevin Kilmartin / Dave 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			REMARKS
					SOL. DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
S1 1330	520	16	2.0 / 2.0					Elevated HNU (Headspace-background) B.C. BACK GROUND H.S. HEAD SPACE 5' 50-52 RC - 0.4 H.S. 12.0
		28						
		31						
	540							
	560							
	580							
	600							
S2 1400	620	31	1.8 / 2.0				11.6	VERY COARSE SAND WITH SOME FINE TO MEDIUM, ROUNDED GRAVEL IN LOW, 6 INCHES. 5-7 60-62 B.C. 0.3 H.S. 13.3
		21						
		20						
	640							
	660							
	680							
	700							
S3 1445	720	11	1.8 / 2.0				13.0	APPROXIMATELY 4 FEET OF HEAVE AT 70 FEET. 5-3 70-72 B.C. 0.4 H.S. 13.6
		31						
		25						
	740							

REMARKS F-10 RIG, 3/4 INCH ID WSA 140 LB HAMMER DROPPED 30" FOR 2"  
ID SPLIT SPOON SAMPLES

BORING HNZ8-1

PAGE 1 OF 4

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PAGE BORING NO.: HN28-I  
 PROJECT NO.: 32E1 DATE: \_\_\_\_\_ DRILLER: MIKE P. (DELTA)  
 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			CORRECTION FACTORS	REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	76								Elevated HNU (HEADSPACE - background) REMARKS
	78								
	80								
C-4 1518		18 23			LT. BRN TO GRAY	14" VERY COARSE SAND		3-4 85-82 B.C. 0.8	
	82	25 31	1.8 2.0		MEDIUM GRAY, BRN, & RED-BRN	4" CLAY TO SILT TO CLAYEY, SILTY SAND	12.2	H.S. 13.0 122 MM ABOVE B.C.	
	84								
	86								
	88								
	90								
S-5 1552		7 19			BRN	18" COARSE TO V. COARSE SAND		S-5 90-92 B.C. - 0.4	
	92	19 40	2.0 2.0		BRN TO GRAY	6" COARSE brn. sand with GRAYISH CLAY STREAKS.	11.4	H.S. 11.8 114 MM ABOVE B.C.	
	94								
	96								
	98								
	100								

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING HN28-I  
 PAGE 2 OF 4

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PAGE

BORING NO.: HN28-I

PROJECT NO.: 1281

DATE: 11-6-91

DRILLER: MIKE P. (DELTA)

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: \_\_\_\_\_

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (FT.) OR RUN NO.	BLOWS 6" OR ROD (N)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, Ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		SOUNDNESS CONC. %	ELEVATED H <sub>N</sub> U (Headspace - Background) REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR		
5-6 11:35		10 14				BRN	4" MED TO COARSE SAND	5-6 100-102 B.G. - 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.G.
	104						DRILLER REPORTS "EASIER" DRILLING AT 103 FEET, MAY BE BASE OF CLAY.	
	106						? ↓	
	108							
	110							
5-7 11:25		9 26				BLACK	14" EXTREMELY STIFF & DENSE COHESIVE CLAY	6.8 5-7 110-112 B.G. - 2.8
	112	31 37	1.4 2.0			BEIGE FINE	6" VERY COARSE, WELL-SORTED SAND	H.S. - 9.6 6.8 PPM ABOVE B.G.
	114							
	116						DRILLER REPORTS 6 FEET OF WADE AT 120 FEET.	
	118							
	120							
5-8 11:15		10 16				LT. TO DK GR	14" FINE TO VERT COARSE SAND (FINING UPWARD)	9.3 5-8 120-122 B.G. 0.3
	122	16 30	2.0 2.0			GR TO BRN	6" GRAY TO BROWN TO REDDISH BROWN CLAY, SILT, AND CLAYEY SAND. CLAY IS VERY PLASTIC & STICKY, AS OPPOSED TO BLACK CLAY ABOVE. ENTIRE 16" INTERVAL IS CLAYEY TO SOME EXTENT.	H.S. - 9.6 9.3 PPM ABOVE B.G.
END DAY 11/6	124							

REMARKS \_\_\_\_\_

BORING HN28-I

PAGE 3 OF 4

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETHPAGE BORING NO.: HN28-2  
 PROJECT NO.: 3291 DATE: 11-7-91 DRILLER: MIKE P. (DELTA)  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: \_\_\_\_\_  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 5' OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		SPT CORRECTED	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR		
11/7	126							Elevated HWL (HEADSPACE - background)
	128							
	130							
5-9 6812		6 19			BLK BRN	6" STAINED?? MEDIUM SAND 2" FINE SAND		5-9 130-132 B.G. - 1.0
	132	39 56	1.9 2.0		GRY GRY	2" VERY SILTY & PLASTIC CLAY 5" SILTY CLAY & FINE SAND	11.2	H.S. - 12.0 11.7 PPM ABOVE B.G.
	134				BRN, RED, RED-BROWN	7" BANDED SILTY CLAY, SILT, AND SILTY OR CLAYEY FINE SAND		
	136							
	138					DRILLER REPORTS 2 FEET OF HEAVE AT 140 FEET. HEAVE IS A DARK GRAY TO VERY DK. GRAY SILT TO VERY FINE SAND		
	140							
5-10 0905		12 30			DK GRY	8" CLAYEY TO SILTY FINE SAND		5-10 140-142 B.G. - 2.6
	142	56 100	2.0 2.6		6", RED, BROWN BROWN	14" BANDED & LAYERED CLAYS AND CLAYEY SILTS AND SILTY CLAYS.	10.6	H.S. - 11.0 10.6 PPM ABOVE B.G.
	144							
	146					HEAVE IS A DARK BROWN TO RED, VERY FINE SILT TO SAND (POSSIBLE THROUGH CONNECTIONS?)		
	148							
5-11 1005		16 47			DARK GRAY	12" FINE TO MEDIUM SAND WITH STRAKES OF DK. GRAY TO BLK CLAY	10.4	5-11 148-150 B.G. - 0.6
	150	97 100	2.0 2.0		LIGHT GRAY	12" FINE TO MEDIUM SAND WITH STRAKES OF REDDISH-BROWN STAINING		H.S. - 11.0 10.4 PPM ABOVE B.G.

REMARKS Drilled 5' of rethole (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<sub>2</sub>O (total) were added to  
borehole to control heave.

BORING HN28-2  
 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) 981-2295

JOHNSON-KECK GR-73

GAMMA RAY LOGGING SYSTEM

WELL 28 I, SITE 1

OWNER NAVY/HALLIBURTON NUS

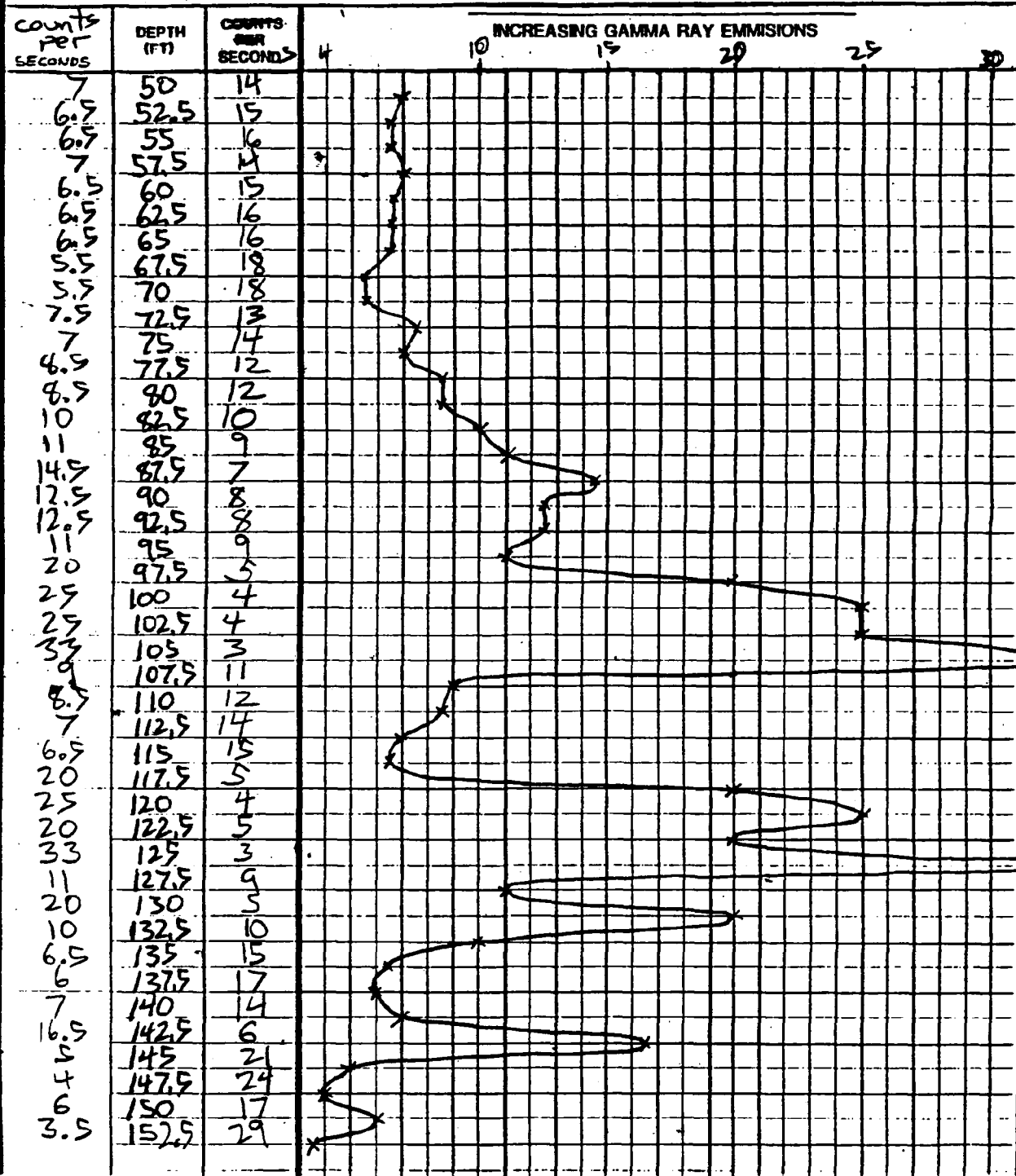
MEASURING POINT 0 feet above/below ground level DATE 11-7-91

DRILLER Mr. M. Pellegrino BOREHOLE DEPTH 154 feet, DIAMETER 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) \_\_\_\_\_

Borehole logged through 3/4" ID augers.  
All depths measured to top of probe. Probe is 18" long. SWL is 48 feet



**BORING LOG**

**NUS CORPORATION**

PROJECT: NWIRP BETHPAGE

BORING NO.: HN29-S

PROJECT NO.: 328

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.	BLOW 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (DEPTH, FE.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOL. DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	2					BROWN TO TAN		1" THICK MUDS CLAY
						BROWN	SAND w/ GRAVEL	FINE TO COARSE SAND GRAVELS ≤ 1.5" dia.
	4							
	6							
	8							
	10							
S-1 10-30		7			MED. DENSE	BROWN	FINE TO COARSE SAND w/ GRAVEL	S-1 SW
	12	10 10	1.5 2.0					MEASURING DOWN
	14							
S-2 10-40	16	15 16			DENSE		AS ABOVE	S-2 SW
		27 20	00 2.0					NO RECOVERY MET WITH BIT BUT RELECT. RECOVERY = OR LARGE GRAVEL
	18							
	20							
	22							
	24						AS ABOVE	SW

REMARKS RIG CHE-75 HSA G/TE. USING 2" SPLIT SP. SAMPLES. 14016 HAMMER DROPPED 30" FOR 2" 2.0 SPLIT SPOON SAMPLES SAMPLES TAKEN FOR LITHOLOG. OR PURPOSES.

BORING HN29-S

PAGE 1 OF 2



**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PAGE

BORING NO: HN 29.5

PROJECT NO: 3781

DATE: 09-04-91

DRILLER: JAY FRECK (UN.TEC)

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: D. YOST

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (FT) OR RUN NO.	BLOWS 5" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (DOWN FT.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	26.0	4				TAN		
S-3 1050	28.0	9 8	2.0 2.0		MEDIUM DENSE	BROWN-WHITE	FINE-MEDIUM SAND TR-SOME SILT TR GRAVEL	SM 5-3 25-27 DAMP-MOIST 0.4 PPM - HNU - DON'T KNOW IF WORKING DR-P.R.
	30.0	9 15		30.5		TAN WHITE	FINE-MEDIUM SAND SOME SILT AND	SM GRAY CLAY LENSES ~ 0.2" THICK FROM 30.5-31.5
S-4 1054	32.0	10 9	2.0 2.0	31.5	MEDIUM DENSE	GRAY GRAY	FINE-COARSE SAND	SM 5-4 30-32 DAMP-MOIST 2 PPM - HNU
	34.0							
	36.0	6 13		36.5		BROWN GRAY	CLAY SOME SILT TR U.FINE SAND	CL
S-5 1111	38.0	13 21	2.0 2.0	36.5	MEDIUM DENSE	BROWN-TAN	FINE-COARSE SAND	SW 5-5 35-37 0.2 PPM - HNU DAMP-SLIGHTLY MOIST
	40.0			40.0		BROWN GRAY	SANDY GRAVELLY CLAY SOME SILT	CL
	41.0	7 9		41.0	SOFT		FINE-MEDIUM SAND	5-5/8 SATURATION - 41'
S-6 1121	42.0	9 8	2.0 2.0		MEDIUM DENSE	TAN-WHITE	FINE-MEDIUM SAND	SW 5-6 40-42 SATURATED 0 PPM - HNU
	44.0							
	46.0	5 7		45.0 45.5		GRAY TAN	CLAY TR SILT FINE-COARSE SAND	4 SW
S-7 1132	48.0	10 14	2.0 2.0		MEDIUM DENSE	BROWN-TAN		5-6 45-47 SATURATED 0 PPM - HNU
	49.0			49.0				
	50.0						BOTM 49.0	

REMARKS WELL TO BE SCREENED 39-49

SATURATION - 41'

BORING HN 29.5

PAGE 2 OF 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 hum. ☉

TIME SAMPLE NO. OR TYPE OR R.O.D.	DEPTH (F.T.) OR RUN NO.	BLOWS 5" OR R.O.D. (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, Ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			CORRECTION OR REMARKS	H.W. Elevation (HS - BG)
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	50	25 20				cr-brn	6" probable auger plug material (gravel) not sampled	24.2	BG 7.8 HS 26
1028		23 30	22 24			buff	16" uniform, coarse sand		
	52								
	54								
	56								
	58								
	60	5 4				tan to cr-brn	15" clean, medium sand	45.2	BG 4.8 HS 50
1140		5 10	15 22			cr-brn tan brn			
	62								
	64								
	66								
	68								
	70	6 14				GY	6" CLAY	0.4	BG 0.2 HS 0.6 (new H.W.)
		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			SPT RECORDS	REMARKS
					SOL. DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	76								
	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								
	88								
	90	2 7 7	14 24		LT. GY		17" coarse sand	BG 3 HS 600	6608
		16			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 ROD	DEPTH (ft.) OR RUN NO.	BLOWS 5' OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		S O R U E C O N S E S S	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR		
	100	16 18						5" SILTY CLAY. BG 0.2 HS 0.4 6608
1505		25 25	24 24			GY		19" EXTREMELY DENSE and HARD CLAY. BG 4 HS 820 6614
	102							
	104							
	106							
	108	25 29				GY TO		19" INTERBEDDED CLAY, SILTY CLAY, and
1550		25 26	19 24			LT-BN		FINE SAND. BG 1.2 HS 200 6609 BG 0.2 HS 0.4 6614
	110							
	112							3 FT of head 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							

Should be 101' 112' KK.

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING HN29  
 PAGE 3 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 (DOWN-TO) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		SPT OR SRE CONSECES	REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR		
								3.5 ft of heave at 130ft
	126							
	128							
	130	7						
1700		21						
		29	18	24				
		33						
	132							BG 2.0 HS 2.3 6605
								BG 0.2 HS 0.4 6614
	134							6" of heave at 140 ft incl. 1st
	136							
	138							
	140	15						
		25						
1740		36	19	24				
		25						
	142							
	144							5 feet of heave at 150'. Driller feels section is getting sandier.
	146							Heave is a silty, very fine sand with clay.
	148							

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 5" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	150	21 67					GY 15" Fine SAND	0.2 8.8 6608
11/28 END DAY 11/22		100 REF.	24 24				GY 5" CLAY & SILTY CLAY	0.2 0.3 6614
	152						Yellow 5" FINE SAND	
	154						6 feet of heave at 160 ft.	Area is a mix of extremely fine grained sand.
	156							
	158							
	160	14 21					LT BEN 12" Fine-medium SAND - probable heave	HS 0.8 BC 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 sand very fine grained sand.
	166							
	168							
	170	5 14					LT BEN 14" FINE-MEDIUM SAND. heave?	HS 0.8 BC 0.6
0955		16 21	24 24				LT BEN & GY 10" Inter-layered FINE TO MEDIUM SAND AND CLAYEY FINE SAND.	
	172							
	174							

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING **HN29**  
 PAGE **5** of **8**

PROJECT: ..... BORING NO.: .....  
 PROJECT NO.: ..... DATE: ..... DRILLER: .....  
 ELEVATION: ..... FIELD GEOLOGIST: .....  
 WATER LEVEL DATA: .....  
 (Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR ROD	DEPTH (FEET) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (DOWEL) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			SPT CORRECTED	REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	176								Heave as a light gray silt and very fine grained sand
	178								
	180	5/8			LT. TAN		18" MEDIUM SAND; PROBABLE HEAVE		
1108	182	24/100	24/24		RD, GY, & MUD	YELLOW	1" INTERLAYERED FINE TO MEDIUM SANDS AND SILTY FINE SANDS WITH SOME CLAY		BC 0.4 HS 0.5
	184						5 FT. OF HEAVE AT 190 FT.		Heave as a light tan, fine to medium sand. water from the water as a bright reddish-brown color.
	186								
	188								
	190	7/13			LT. TN		14" MEDIUM SAND; PROBABLE HEAVE		BC 0.3
1145	192	19/24	24/24		GY		5" CLAYEY SILT		HS 0.4
	194				GY		5" CLAYEY FINE SAND		
	196						5 FT. OF HEAVE AT 200 FT.		Heave as a light brown silt and very fine grained sand.
	196								

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 ROD	DEPTH (FT.) OR RUN NO.	BLOWS 6" OR ROD (N)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (DOWN) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		SPT COR SEC ES	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR		
	200	9 10				GY S YEL-BN	8" CLAYEY & SILTY FINE SAND	DE 0.3 HS 0.4 6614
1228		32 36	8 24				MIDDLE of spoon is split - open with ~ 1/4 - 1/8" GAP	DE 1.4 HS 13.8 6608
	202						6 FT. of LEAVE at 220 FT.	LEAVE is mostly silt with some very fine grained sand.
	204							
	206							
	208							
	210	9 7				LT. BN	22" MEDIUM TO FINE SAND	DE 0.2 HS 0.4 6614
1402		9 30	24 24			GY TO LT. BN	21" SILTY FINE SAND	DE 0.8 HS 14.2 6608
	212						This sample may entirely be leave, although handle was at total depth after bailing leave.	
	214						11 feet of LEAVE at 220 FT.	LEAVE is a light gray, fine to medium sand that is generally coarser in texture than any seen over last 2150 feet
	216							
	218							
	220					LT. GY	24" Clean, well-sorted, MEDIUM - GRAINED SAND	DE 0.3 HS 0.4 6614
1455			24 24					DE 1.8 HS 12.6 6608
	222							
FADEOUT 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 MN 29  
 PAGE 2 of 9



**BORING LOG**

**NUS CORPORATION**

PROJECT: ..... BORING NO.: .....  
 PROJECT NO.: ..... DATE: ..... DRILLER: .....  
 ELEVATION: ..... FIELD GEOLOGIST: .....  
 WATER LEVEL DATA: .....  
 (Date, Time & Conditions) .....

SAMPLE NO. & PIPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			B O R E U S E C O N S I D E R S	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
11/25									
	226								Drilled to 230 feet and bailed well. No further samples to be taken as per NAVY & NYSDEC (see notebook 2159).
	228								Drilled to 250 feet. 15 feet of heavy 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<sub>2</sub>O used in drilling of pilot hole & installation of well

BORING HN29  
 PAGE 8 of 8

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

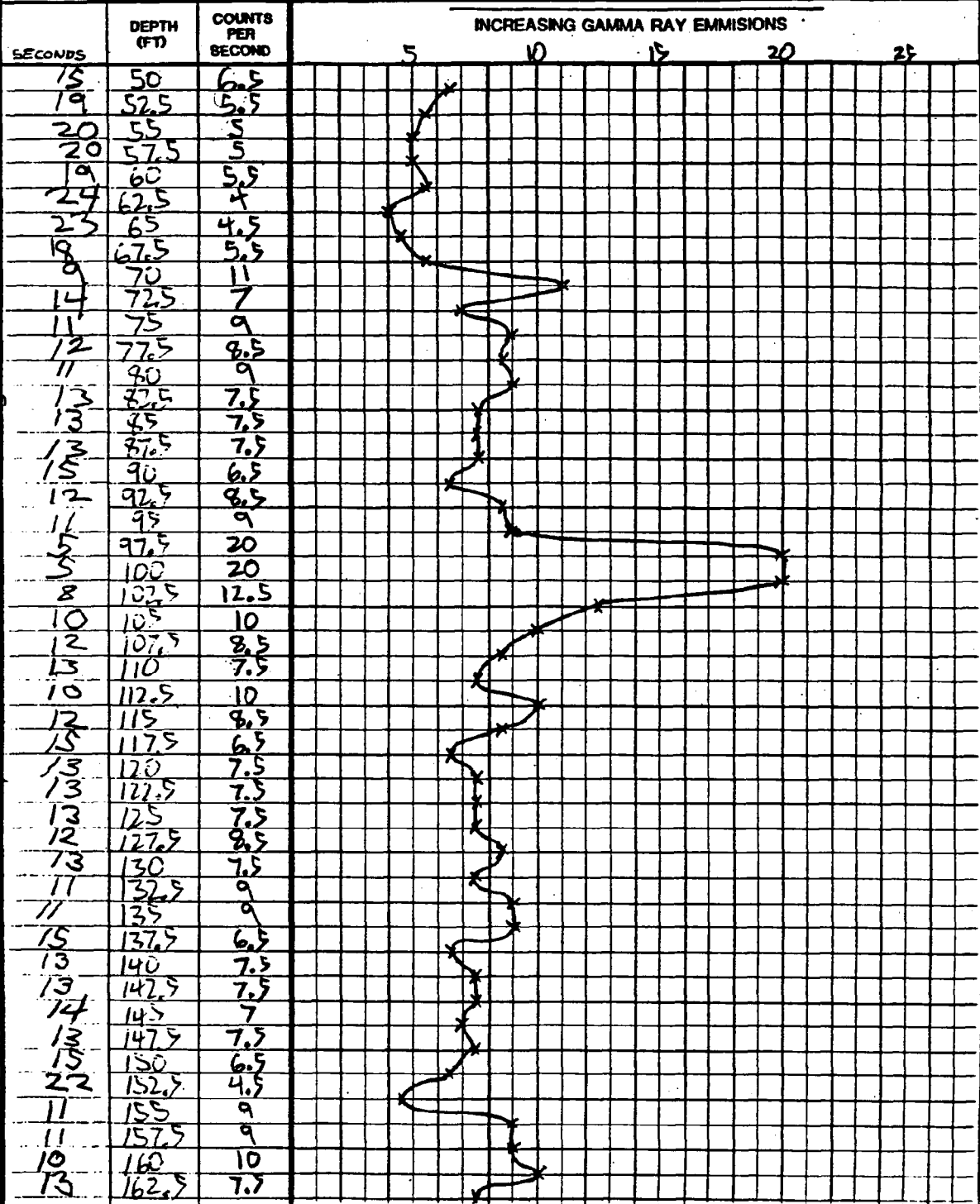
OWNER NAVY/HALLIBURTON NUS

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) \_\_\_\_\_



Borehole logged thru 3 1/4 ID augers.  
 All depths measured to top of probe. Probe is 18" long. SWLS 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 A

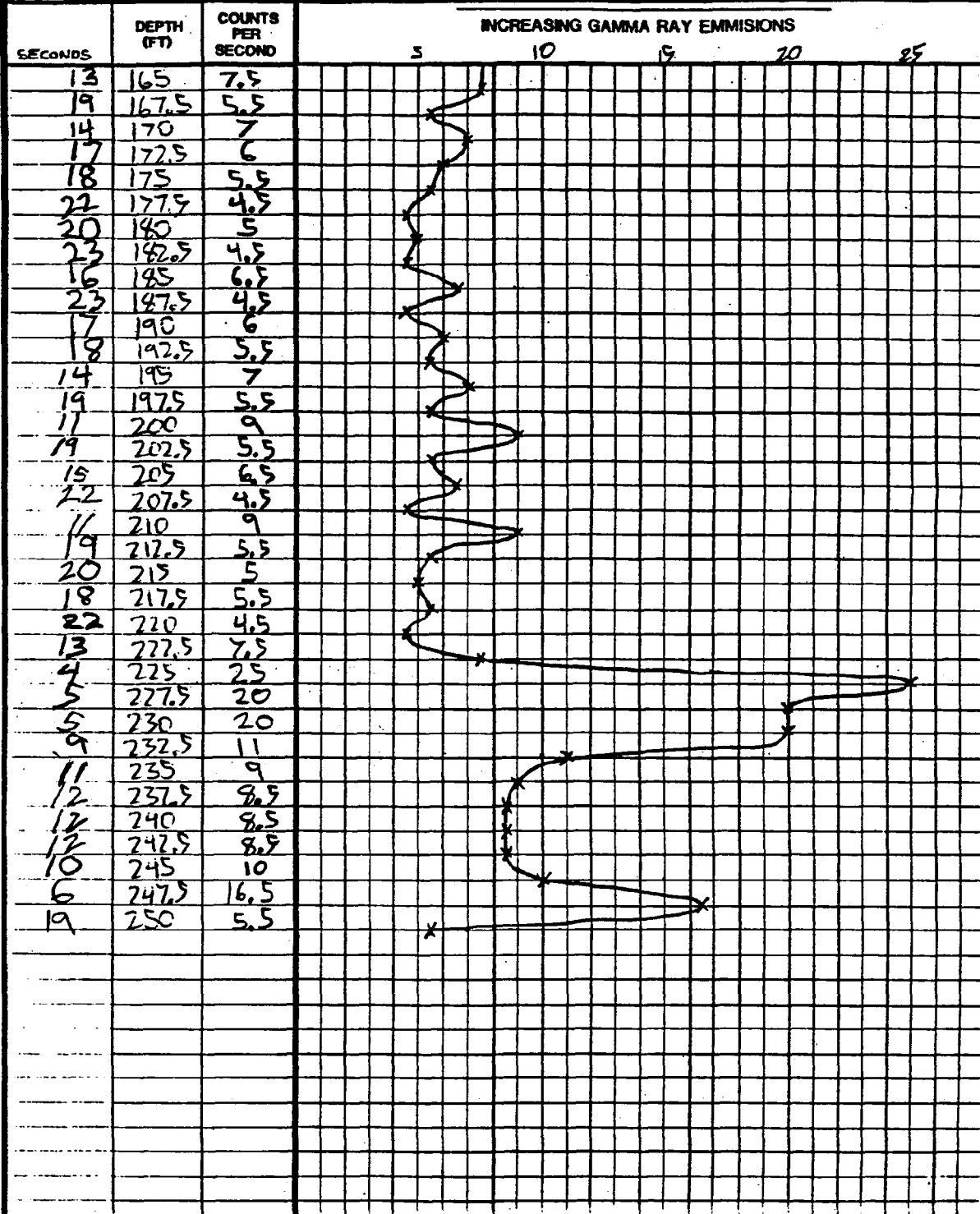
OWNER NAVY/HALLIBURTON NUS

MEASURING POINT grade feet above/below ground level DATE 11-25-91

DRILLER Mr. M. Pellegrino BOREHOLE DEPTH 256.5 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) \_\_\_\_\_



**BORING LOG**

**NUS CORPORATION**

PROJECT: NWIRA BETHPAGE

BORING NO.: HN 30-S

PROJECT NO.: 3281

DATE: 9-04-91

DRILLER: JAY FLECK (U.W. TEC)

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: D. Yost

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN OR NO.	BLOWS 5" OR ROD (%)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			CORRECTIONS	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	0.0			1.0		BROWN	SILT, SAND TO GRAVELS, ORGANICS		~ 1' THICK
	2.0					RED BROWN	SAND AND GRAVEL. SAND		
	4.0						1: FINE-COARSE GRAVEL		
							IS SUBROUNDED = 1'		
	6.0								
	8.0								
	10.0								
	12.0	31 18 19 21	0.4 2.0		MEDIUM DENSE	RED BROWN	SAND AND GRAVEL AS ABOVE	SW	S-1 10-17 FOOT RECOVERY LVE TO GRAVELS: SAMPLE NOT REPRESENTATIVE. DESCRIPTIONS FROM CUTTINGS AT 7.5' POINT
	14.0								
	16.0	4 5	1.0 7.0		MEDIUM DENSE	RED BROWN	FINE-COARSE SAND AND FINE-SUBROUNDED GRAVEL < 1/2" DIAMETER	SW	S-2 15-17 HILL-NA DAMP
	18.0								
	20.0								
	22.0								
	24.0								

REMARKS CME 75 R.G. 3/4" I.D. H.S.A. 140 LB HAMMER OPERED 30" FOR 2"  
I.O. SPLIT SPIN SAMPLES

BORING HN 30-S

PAGE 1 OF 3

PROJECT: SETH PAGE

BORING NO.: HN 30-S

PROJECT NO.: 3261

DATE: 9-04-97

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, PL) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	26.0	6						
S-3 1646		10 10	1.0 7.0		MEDIUM DENSE	BROWN BROWN	FINE-COARSE SAND AND FINE SUBROUNDED GRAVEL. TR BROWN SILT	SW S-3 25-27' 3.5 FROM HANU CAMP. SLIGHTLY MOIST
	28.0							
	30.0	5						
S-4 1652	32.0	8 7	1.6 7.0		MEDIUM DENSE	BROWN WHITE	FINE-MEDIUM SAND SOME SILT TR FINE SUBROUNDED GRAVEL	SW S-4 30-32 CAMP HANU N-6614 DOES NOT APPEAR TO BE IMPROPERLY PREPARED
	34.0							
S-5 1700	36.0	7 8	1.7 2.0		MEDIUM DENSE	TAN WHITE	FINE-COARSE SAND TO GRAVEL FINE SAND TR GRAVEL, SILT-(S-S)	SW * - TRACE OF FINE BROWN LAMINATIONS OF HEPAITIC SAND S-5 35-37' 2 FROM HANU CAMP
	38.0							
	40.0	7						
S-6 1709	42.0	9 10	1.0 2.0		MEDIUM DENSE	TAN WHITE	FINE-MEDIUM SAND SOME FINE SUBROUNDED GRAVEL < 1/2"	SW S-6 40-42 DAMP 9 FROM HANU - QUESTIONABLE!
	44.0							
S-7 1720	46.0	5 12	1.6 2.0		MEDIUM DENSE	WHITE TAN	FINE-MEDIUM SAND TO SILT. TR U.FINE GRAVEL IN BOTTOM 2' OF BOX	SW S-7 45-47 DAMP 15 FROM HANU - QUESTIONABLE!
	48.0							
	50.0							

REMARKS

BORING HN 30-S

PAGE 2 : 3



**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PAGE - NWIRA

BORING NO: HN 30 I - PILOT

PROJECT NO: 3281

DATE: 10/18

DRILLER: DELTA: MIKE

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: KILMARTIN/YOST

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD NO.	DEPTH (FT. OR RUN NO.)	BLOWS 5" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	TIME (MIN.) OR SCREENED SPECIAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
2" OD	50	10		0858	CLAY	LT. B/W	4" sticky clay w/ some black (organic staining)	HNW elevation (reading-background) REMARKS HNW BACK 1.3 ppm HEADSPACE 13.0 ppm SAMPLE WARMED IN TRUCK before reading.
		11			SAND	LT. B/W	8" fine to med. sand.	
		15	22					
		23	24					
	52							
	54						Cuttings: generally orange-brown medium to coarse-grained sand.	
	56							
	58							
	60	15	24	0937	SAND w/ gravel	LT. Buff	Med. to very coarse grained sand w/ pebbles throughout	HNW BACK 1.0 HEADSPACE 14.2 SAMPLE WARMED IN TRUCK before reading.
		34			42			
	62							
	64						Cuttings: generally orange-brown to brown, medium to very coarse-grained sand with pebbles up to 2 to 2.5 inches in size.	
	66							
	68						1 ft. of heave at 70 ft.	
	70	4	16	1045	SAND	BY TO BUFF	8" medium sand	HNW BACK 0.4 HNW HEADSPACE 14.8
		8			20	24	CLAY	
	72						Driller reported 6 ft of heave after clay was penetrated	
	74							

REMARKS \_\_\_\_\_

BORING HN 30 I  
PILOT  
PAGE 1 of 6

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 5" OR ROD (%)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (DEPTH) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			CORRECTIONS	REMARKS	
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION			
	76			1110			Cuttings generally brown, medium to very coarse-grained sand.			
	78									
	80	7 6 10 15	24 24			LT TAN TO BUE GRAY TO GREENISH GRAY		6" MEDIUM TO COARSE SAND 18" VERY STICKY & COHESIVE & PLASTIC SILTY CLAY TO CLAY	14.4	BACK 0.4 HEADSPACE 14.8 Sample warmed in truck before reading.
	82									
	84							Cuttings a general mix of coarse sand & plastic clay.		
	86									
	88									
	90	11 42 72 75	12 24		1142	GRAY TO GREENISH GRAY		3" STICKY SILTY CLAY 9" MEDIUM GRAINED SAND.	10.8	BACK 0.4 HEADSPACE 11.2 Sample warmed in truck before reading.
	92									
	94								Cuttings a general mix of coarse sand & plastic clay.	
	96									
	98						DRILLER REPORTS APPROXIMATELY 5-ft. of heave at 100 ft.		HEAVING SAND IS A YELLOWISH-TAN, MEDIUM GRAINED SAND.	

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

HN 30 I  
BORING 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 / YEST

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 (min) or SCREENED INTERVAL	MATERIAL DESCRIPTION		CORRECTION OR ROCK CONVECTES	← HNU ELEVATION (reading - background) REMARKS		
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR				
	100	11 8		1301		TAN TO LIGHT BROWN GRAY		HNU BACK 0.3 HEADSPACE 12.6		
		15 18	23 24				2" STICKY, SILTY CLAY	12.4	Sample warmed in Sun.	
	102						CUTTINGS generally a			
	104						MEDIUM SAND WITH SOME CLAY			
	106									
	108									
	110	8 12			1340		LT. GRAY 10" MEDIUM-GRAINED SAND OR BRN 11" MEDIUM-COARSE GRA. SAND BLACK 2" BLACK-(OBTAINED?) MEDIUM GRAIN SAND		HNU BACK 0.2 HEADSPACE 9.2	
		24 26	23 24						9.0	Sample warmed in Sun.
	112							CUTTINGS generally a		
	114							STICKY MIXTURE OF MEDIUM SAND & CLAY		
	116						Approx. 3 ft. of MEAL at 120 ft.		HEAVING sand is a LT. TAN, MED. GRND SAND	
	118									
	120	12 20		1425		GRAY TO LIGHT BROWN, FINE TO MOSTLY MEDIUM GRAINED SAND		HNU BACK 3.0 SAMPLE JAR HEADSPACE SHATTERED - NO READING COULD BE OBTAINED.		
		21 59	24 24						Sample warmed in Sun	
	122									
	124									

REMARKS \_\_\_\_\_

BORING HN 305

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 ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY OR SAMPLE LENGTH	TIME LOG CHANGE (Depth, Ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			CORRECTIONS	← HNU Elevation (reading-background) REMARKS	
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION			
	126			1510			Cuttings generally a mixture of fine to medium sand with some clay			
	128						Approximately 4 ft. of heave at 130 ft.			
	130	15 25	16/24			Whitish to light brown		Whitish to light brown, mostly medium to coarse grained sand.	9.2	HNU BACK 0.2 HEADSPACE 9.4 Sample warmed in sun.
	132	40 59								
	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	16/24	1609	Med. GR TO LT. GRAY		Mostly fine to a medium-grained sand.	8.2	HNU BACK 0.2 HEADSPACE 8.4 Sample warmed in the sun.	
	142	45 70								
	144							Cuttings generally a medium-grained sand		
	146									
	148	6 9 12 18		1702	LT. GRAY		Very uniform, medium to coarse-grained sand	10.0	HNU BACK 0.2 HEADSPACE 10.2	

REMARKS: 150' LAST sample taken at 8' interval (146-150) rather than 10'. Then drilled to 150', drilled to 155', sand heaved to 148'. Heaving sand was the same, LT. gray sand.

BORING HN301  
Pilot  
 PAGE 4 of 6

LC22

# GAMMA RAY LOG BY

JOHNSON-KECK GR-73 / GR-81 GAMMA RAY LOGGING SYSTEM

WELL #2 Intermediate - Site OWNER NAVY/HALLIBURTON MS

MEASURING POINT 0 feet above/below ground level DATE 10-91

DRILLER Ms. M. Pellegrino BOREHOLE DEPTH feet, DIAMETER inches

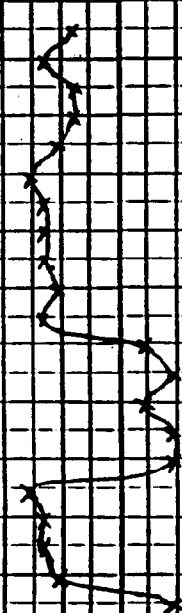
CASING DEPTH feet, DIAMETER inches OPERATOR Mr. C. Okon

COUNTS SETTING (GR-73) GM/100 RANGE SETTING (GR-81) TIME CONSTANT (GR-81)

SELT WELLS & PUMP CO., INC.  
97 Union Avenue, P.O. Box 1309  
RONKONKOMA, NEW YORK 11779  
(516) 981-2255

SECOND	DEPTH (FT)	COUNTS PER SECOND	INCREASING GAMMA RAY EMISSIONS			
			5	10	15	20
	GRAVE					
	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				
15	52.5	6.5				
15	55	6.5				
17	57.5	6.5				
20	60	6				
19	62.5	5				
19	65	5.5				
18	67.5	5.5				
18	70	5.5				
17	72.5	6				
18	75	5.5				
11	77.5	9				
10	80	10				
10	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 3 1/4" ID pipes SWLS 50



LC22 **GAMMA RAY LOG BY**  
**301 JOHNSON-KECK GR-73 / GR-81 GAMMA RAY LOGGING SYSTEM**  
 WELL # 1 Inconduc - Ste 2 OWNER NAVY/HALLIBURTON US  
 MEASURING POINT 0 feet above/below ground level DATE 10-18-91  
 DRILLER Mr. M. Pellegrino BOREHOLE DEPTH \_\_\_\_\_ feet, DIAMETER 6/4 inches  
 CASING DEPTH 1/4 feet, DIAMETER 1/4 inches OPERATOR Mr. C. Oton

COUNTS SETTING (GR-73) EM/100 RANGE SETTING (GR-81) \_\_\_\_\_ TIME CONSTANT (GR-81) \_\_\_\_\_

SECONDS	DEPTH (FT)	COUNTS PER SECOND	INCREASING GAMMA RAY EMISSIONS			
			5	10	15	20
10	102.5	10				
14	105	7				
5	106.5	20				
10	110	10				
27	112.5	3.5				
29	115	3.5				
21	117.5	5				
28	120	3.5				
18	122.5	3.5				
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 3/4" ID Augers. SWL's 50

PUMP CO., INC.  
 97 Union Avenue P.O. Box 1309  
 RONKONKOMA, NEW YORK 11779  
 (516) 981-2255

**BORING LOG**

**NUS CORPORATION**

PROJECT: WATER BETH PAGE BORING NO.: HN 8 - PILOT  
 PROJECT NO.: 3781 DATE: 12/2 DRILLER: MIKE P DELTA WELL  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: Kevin Kilmartin  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 5' OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	
	150	100				DK. GY 24" MED. TO COARSE SAND	BE 0.4 <u>6614</u> HS 0.5
1505			24/24				
	152					601 ABOUT 5 inches of PENETRATION for 100 blows. TRAP WAS JUMPED BY a large Gtz. pebble that was actually 'cored' by the spoon.	BE 0.6 <u>6608</u> HS 11.4
	154						
	156						
END TRAP 12/2	158					8 ft. of leave at 160 ft. 12/3 leave is a 15" THIN, MEDIUM SAND	leave is a fine to MESTLY MEDIUM & COARSE SAND gray in color, with some rare pebbles included
	160	4					
1122		6	24/24			LT. BN 18" LT. BN, MED. GRAINED SAND, WELL SORTED	BE 0.3 <u>6614</u> HS 0.4
	162	11				GY 6" SILT & SILTY CLAY.	
	164						
	166						
	168					3 ft. of leave at 170 ft	leave is c. light brown, med. grained sand.
	170	5				LT. BN 24" LT. BN, WELL-SORTED, MEDIUM SAND	BE 0.2 <u>6614</u> HS 0.4
1205		16	24/24				
	172	36					
	174	30					

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 ROD	DEPTH (ft.) OR RUN OR NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		REMARKS
					SOL. DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	
						4 ft of heave at 180 ft	
	176						
	178						
	180	30 100					
1045			12 24		EY	3" fine sand 3" CLAY 4" MEDIUM SAND	BE 0.2 HS 0.3 6614
	182						
	184						
						3 ft of heave at 190 ft	heave is a light tan, medium grained sand
	186						
	188						
	190	6 18 28					
1534		24	14 24		EY	8" MEDIUM TO COARSE SAND	BE 0.3 HS 0.4
	192				LT. GN	2" MEDIUM SAND	
					EY & 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 ROD	DEPTH (ft.) OR RUN NO.	BLOWS 5" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		CORRECTIONS	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR		
	200	6 24				LTGY		
1632		50 RET.	24 24			LTGY & BN		DC 0.3 HS 0.4
	202							
End of 12/3								
	204							
	206							5 feet of hole at 210 (drilled from 190 - 210 ft, 12:14 a.m.)
	208							
	210	10 32				LTGY		
1082C		50 RET.	24 24			LTBN		DC 0.3 HS 0.5
	212							
	214							3ft of hole at 220 ft. leave w/c gray, fine to medium sand.
	216							
	218							
	220	22 25				BY-BN EY		DC 0.4 HS 0.4
0910		22 24	18 24			BY-BN		
	222							
	224					BN		

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING HN8  
 PAGE 3 : 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 ROD	DEPTH (ft.) OR RUN NO.	BLOWS 5" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	REMARKS
	226									3 ft of heave at 231 ft	heave is a light brown, very fine-grained sand
	228										
	230	5 25	8					LT. BN		5" MEDIUM SAND	SG 0.4 HS 0.4
1052		40	24					BLK		3" STIFF CLAY	
	232										
	234									3 ft of heave at 240 ft	heave is a light brown, MEDIUM SAND
	236										
	238										
	240	8 50	24					LT. BN		12" MEDIUM SAND	SG 0.3 HS 0.4
1159		REF	24					GY		12" STICKY CLAY	
	242										
	244										
	246									2 ft of heave at 250 ft	heave material is a black clay & a locally medium-grained sand
	248										

REMARKS: 250' - LAST SAMPLE WAS TAKEN FROM 250-252'

BORING HNB  
 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 ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			S OR R OR E OR C OR S OR E S	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	250	16 50				LT. BN X GY	8" INTERBEDDED SILTY FINE SAND AND CLAY		ME C. 2 HS C. 3
1940		Ret	8 24						
	252								

REMARKS Drillers drilled TO 256' (5' of rat hole for loggers)

BORING HNG  
 PAGE 5 : 5

# GAMMA RAY LOG BY

DELTA WELL  
& PUMP CO., INC.  
97 Union Avenue P.O. Box 1309  
RONKONKOMA, NEW YORK 11779  
(516) 881-2255

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 C. Olson

COUNTS SETTING (GR-73) GM/100 RANGE SETTING (GR-81) \_\_\_\_\_ TIME CONSTANT (GR-81) \_\_\_\_\_

CAMP PER SECONDS	DEPTH (FT)	COUNTS PER SECOND	INCREASING GAMMA RAY EMISSIONS		
			9	10	15
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	25			
5	67.5	20			
7.5	70	13			
5.5	72.5	18			
4	75	25			
5	77.5	20			
5.5	30	19			
5	37.5	20			
4.5	35	23			
3.5	37.5	30			
4	40	25			
4	42.5	26			
4.5	45	23			
5	47.5	20			
6.5	50	16			
5.5	52.5	18			
5	55	20			
4.5	57.5	22			
5	60	21			
5.5	62.5	19			
4	65	24			
5	67.5	20			
5	70	20			
4.5	72.5	22			
4.5	75	22			
4.5	77.5	22			
5	80	24			
4.5	82.5	22			
5	85	20			
4.5	87.5	22			
5.5	90	20			
5.5	92.5	18			
5	95	20			
4.5	97.5	22			
5	100	20			
5	102.5	20			
5	105	19			
5	107.5	19			
5	110	19			
5	112.5	20			

# GAMMA RAY LOG BY

DELTA WELL  
& PUMP CO., INC.  
97 Union Avenue, P.O. Box 100  
RONKONKOMA, NEW YORK  
(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 \_\_\_\_\_ inches

CASING DEPTH \_\_\_\_\_ feet, DIAMETER \_\_\_\_\_ inches OPERATOR \_\_\_\_\_

COUNTS SETTING (GR-73) \_\_\_\_\_ RANGE SETTING (GR-81) \_\_\_\_\_ TIME CONSTANT (GR-81) \_\_\_\_\_

Counts per SECOND	DEPTH (FT)	COUNTS per SECOND	INCREASING GAMMA RAY EMISSIONS			
			5	10	15	20
7	115	11				
6	117.5	17				
5	120	21				
3.5	116.5	20				
6	125	17				
5	171.7	21				
5	150	20				
4	137.7	26				
5.7	135	19				
3.5	137.7	26				
4	140	29				
4.5	147.5	23				
4.5	150	28				
3	147.5	32	32			
4.5	150	22				
3	157.5	32				
4.5	150	23				
3.5	157.5	28				
4.5	160	22				
4	177.5	24				
5.5	170	16				
3.5	177.5	28				
6.5	170	16				
4	177.5	24				
6.5	170	16				
5	177.5	20				
6.5	170	15	15			
6.5	177.5	16				
5.5	180	18				
4.5	187.5	22				
6	190	17				
5.5	197.5	18				
6.5	190	16				
4.5	197.5	22				
10	200	10				
9	207.5	11				
11	210	9				
12.5	217.5	8				
11	210	9				
7	217.5	14				
16.5	210	6				
9.5	217.5	12				
6.5	220	15				
7.5	227.5	13				
16.5	210	6				
16.5	227.5	6				

# 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 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	INCREASING GAMMA RAY EMISSIONS	
6	230	16.5		
5	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: AWIRP Bethpage

BORING NO: 338

PROJECT NO.: 3281

DATE: 8-26-91

DRILLER: Joe Miranda - ADT

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: R. Patoricity

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (N)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, Ft) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	0							
	2				dk Br		Med sand w/organic	
		17			dk Br		Med sand w/organic gravel < 1"	
		19			Br		5" med to coarse clayey sand	
3"	4	21	18"	24"	Br		coarse sand & gravel < 2"	Sample e 1020
		29			Br		coarse to med sand gravel < .75"	
	6							
	8							
	10							
	12							
	14							
	16							
	18							
		11						
		13						
3"	20	14	18"	24"	Br		coarse to med sand gravel < .75"	moist at 19' (perched?)
		15						Sample e 1050
	22							
	24							

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING 338  
 PAGE 1 of 3

PROJECT: AWIRP Betabase

BORING NO: 338

PROJECT NO.: 3281

DATE: 8-26-91

DRILLER: Joe Miranda - ADT

ELEVATION:

FIELD GEOLOGIST: R. Paterniti

WATER LEVEL DATA:

(Date, Time & Conditions)

SAMPLE NO. OR TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (ft)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	
	26					Br	coarse to med sand gravel to .75'
	28						
	30					Br	coarse to med sand gravel to 1"
	32						
	34					Br	coarse to med sand gravel to 1"
	36						
	38						
	40						
		9					
		10					
2'	42	12	10'	24"		lt Br	med sand gravel to 1"
		11					
		12					
		16					
2'	44	15	14"	24"			H2O 2 ppm
		19					
		23				wt to 16 Br	coarse sand with gravel <.75"
2"	46	45	22"	24"			H2O 2 ppm MOIST
		54					
	48					wt to 16 Br	coarse sand gravel c. .75"
	50						

REMARKS H2O Background 1 ppm

BORING 338

PAGE 2 : 3

PROJECT: NWIRP Betnpage BORING NO: 338  
 PROJECT NO.: 3281 DATE: 8-26-91 DRILLER: Joe Miranda - AOT  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: R. Patarency  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 8" OR ROD (N)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
						<u>6 to 16 gr</u>	<u>coarse sand gravel &lt; .75"</u>	
	<u>52</u>							
	<u>54</u>							<u>water level 54 1/2 ft.</u> <u>sample at 1245</u>
	<u>56</u>							<u>well depth 58'</u>
	<u>58</u>							
	<u>60</u>							
	<u>62</u>							

REMARKS At well depth 56 ft. water level 52 ft  
At well depth 60 ft water level 54.5 ft

BORING 338  
 PAGE 3 : 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: SETH PAGE

BORING NO.: SB 334

PROJECT NO.: 3281

DATE: 9-27-91

DRILLER: RICH BERUMAN

ELEVATION:

FIELD GEOLOGIST: D. VOST / FRED RAMSER

WATER LEVEL DATA:

(Date, Time & Conditions)

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (ft)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (Depth ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	0.0			0.5			ASPHALT 2" THICK CRACKED 24H FILL	CRUSHED ASP. FILL 0.5' THICK
	2.0					CLAY	SANDY SILT (FILL)	
							SILT AND CLAY (FILL)	FILL 5'
	4.0	9/20					MORE GRAVEL	
S1 S1E		29/70	18/70	5.0	DENSE	RED-BROWN	SAND AND GRAVEL	SP S-1 3-5' + SMT TO LAB. 24ppm - HNU
	6.0						SAND IS FINE - COARSE GRAVEL IS SUB-ROUNDED 1"	
	8.0							
	10.0							
	12.0							
	14.0							
	16.0							
	18.0							
	20.0	8/21						
S2 S2E		25/70	18/70		MED DENSE	LIGHT BRN	FINE TO COARSE SAND AND FINE TO MED GRAVEL LESS THAN 1/2" IN DIA. GRAVEL	19-21 MOIST
	22.0							
	24.0						AS ABOVE	

REMARKS: FIELD SET PIA TO CHECK FOR RAIL STATION MARKERS W/IN  
NUMBERED DEPTH 20' & 24' SANDY GRAVEL SAMPLES. 2" & 4" SPANS FOR SAMPLES  
1 & 2 SENT TO LAB. 3 & 4 STORED FOR LITHOLOGICAL ANALYSIS

BORING SB 334

PAGE 1 OF 3



**BORING LOG**

**NUS CORPORATION**

PROJECT: ..... BORING NO.: 80-334  
 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 OR SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			SPT CORRECTED	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	26						AS ABOVE	SD	
	28								
	30								
	32								
	34								
	36								
	38								
	40								
	42								
1300 \$3		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	1.8 2.0		MED. DENSE	ROTTEN BENTONITE	COURSE TO FINE SAND/SOME SILT	SM	
1215 \$4		20 15	1.8 2.0				COURSE TO FINE SAND SOME SILT		LAMINATED WITH SAND STRINGS MOIST 45'-47'
	48	9 12 15 16	1.0 2.0			ROTTEN BENTONITE	COURSE TO FINE SAND WITH SILT AND SAND SAND LAYERS		5-5 48'-50' SAND STRINGS
	50								

REMARKS HIT WATER AT 48'

BORING 80-334  
 PAGE 2 : 3

PROJECT: ..... BORING NO.: SB-334  
 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 (DOWN IN.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		REMARKS	
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR		
3-6 13.27		12 4		SCREENED			NO SAMPLES TAKEN	
	52	13 36	2.0 20			FINE TO MED. SAND w/ SILT	SW	BASE OF PLATE CAUGHT
	54							
	56							
	58				TD=57			TWO MORE SAMPLES TAKEN AT 145HRS
	60							

REMARKS TD=57 WATER LEVEL @ 52.5 MEASURED 14:20 HRS

BORING SB-334

PAGE 3 OF 3

PROJECT: BEIM PAGE

BORING NO: 36 329

PROJECT NO.: 3761

DATE: 6-27-51

DRILLER: RICH BERGMAN 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 OR SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS	
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	0.0						CONCRETE - 8" THICK		
	2.0			FILL MATERIAL		BLK		FILL MATERIAL	
	4.0	5							
	5.1	6							
5-1 16-59		7	2.0 / 2.0			BLK TO DK BRN		CLAYY/COARSE SILT AND MED TO FINE GRAVEL - TL SAND	GC 3-1 3-5' 1.0 ppm HNU
	6.0							2.5' GRAVEL	
	8.0								
	10.0								
	12.0								
	14.0					DRY TO DK YEL		SANDY GRAVEL 1' to 2' GRN SUB ROUNDED TO SUB ANGULAR	GC 12.5 FT. 0.0 ppm HNU
	16.0								
	18.0								
	20.0								
	22.0								
	24.0								
							AS ABOVE		

REMARKS MOBILE BEST RG 3/4 INCH I.D. HOLLOW STEEL PIPE 140 LB RAMMER DESIGN  
30" FOR SPILT STEEL CAPTIVES. 3" I.C. SPACER FOR SAMPLES TO LAB 2" I.D. SPACER  
FOR LITHOLOGICAL SAMPLES

BORING 36 329

PAGE 1 OF 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 5" OR ROD (ft)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			SOUNDNESS CONCISE	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	26.0						GRAVEL LENS		GRAVEL LENS AT 26' 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' CUTTING BECOME MOST LENSER GRAVEL
	37.0								
	39.0								
	40.0								
	42.0								
	44.0								
	46.0								
	48.0								
S-2 17.50	49.0	19 26			TAN TO BRN		FINE TO COARSE SAND WITH SILT & CLAY	GM	S-2 49' to 46' MED TO FINE GRAVEL TO SUBSTRONG
	46.0	35 23	1.5 2.0						
	48.0								
S-3 18.15	50.0	18 24 27 32	1.2 2.0		BRN LT BRN		FINE TO COARSE SAND WITH SILT & CLAY		S-3 48 to 50' MED TO

REMARKS 2 1/4 ID SPLIT SPOON, HSA 3/16, 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 BRAUNAU**  
 ELEVATION: ..... FIELD GEOLOGIST: **FRED RAMSER**  
 WATER LEVEL DATA: .....  
 (Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 5" OR ROD (%)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, Ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
S-4 18-25	52	20	1.0 2.0			PREL	FINE TO COARSE SAND WITH SOME SILT TR/CLAY	SW 50-52 S-4 1.2 ppm SATURATED
		24						
S-5 18-45	54	8	1.2 2.0				FINE TO COARSE SAND WITH SOME SILT TR/CLAY	SW S-5 53'055 0.5 ppm SATURATED
		16						
	56	20						
	58			TD=58'			AS ABOVE	
	60							
							BOTTOM 58'	
							SCREENED 10' @ 45' LAST	

REMARKS MEASURE W.L. @ 52' 8-27-91 18:30 HR=

TD @ 58'

BORING SB 329

PAGE 3 : 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: ASHPAGE BORING NO.: SB 328  
 PROJECT NO.: 328 DATE: 8-30-73 DRILLER: RICH BERGMAN (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 (ft)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	0.0						ASPHALT - 3" THICK - CONCRETE	ASPHALT - 3" CONCRETE - 0.5'
	2.0					BROWN BLACK	SILT SAND SOME CLAY - ROCK FRAGS	FILL
	4.0	2 2						
S-1 0820		4 4	2.0 2.0		SOFT	BLACK C.BROWN	SILTY SANDY CLAY + ORGANICS	CL 3-1 3-5' # SENT TO LAB 0.2 ppm - HMM DAMA Fill
	6.0						ROCK ORGANICS	
	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 GRAVEL - SUBGRAVEL < 3/4"	SW GRAVEL CONSIST OF MOSTLY OF QUARTZ
S-2 3830		28 30	1.6 2.0		DENSE	LT BROWN	GRAVEL - SUBGRAVEL < 3/4"	S-2 19-21 # SENT TO LAB 0.5 ppm - HMM MOIST
	22.0							
	24.0							

REMARKS MOBILE 957 RIG 3 1/2" I.D. HOLLOW STEM AUGERS 140 LB HAMMER  
DROPPED 30" FOR SPECIAL SPONS SAMPLES 3" I.D. SPONS FOR SAMPLES TO LAB. 2" I.D.  
SPONS FOR LITHOLOGICAL SAMPLES

BORING SB 328  
 PAGE 1 : 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PAGE

BORING NO: SB 328

PROJECT NO: 3281

DATE: 8-30-91

DRILLER: RYAN BEAUMAN (CDT)

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: D. YOST

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. 6 TYPE OR ROD	DEPTH (ft) OR RUM NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOL. DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	26.0				LT BROWN		FINE-COARSE SAND AND GRAVEL - SUBROUND	
	28.0							
	30.0							
	32.0							
	34.0							
	36.0							OUT OF GRAVEL?
	38.0							
	40.0							
	42.0							
	44.0				TAN-RED.			BAND IS MOTTLED IN COLOR
	46.0				WHITE	TR CLAY	SILT/SAND - SAND-FINE-MEDIUM	TR MICA FLAKES
S-3 OBS 7	48.0	10	7.0		MEDIUM DENSE			SM 5-8 46-48" 15 ppm HAIR
		4			TAN-RED.		SILTY SAND TR CLAY	COLOR MOTTLED
S-4 OBS 8	50.0	11	7.0		MEDIUM DENSE	WHITE	SAND FINE-MEDIUM	SM 5-4 48-50" 14 ppm

REMARKS \_\_\_\_\_

BORING SB 328

PAGE 2 : 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PAGE

BORING NO: SB 322

PROJECT NO: 3281

DATE: 8-30-91

DRILLER: Rich Beaman (AC)

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: D. Vost

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			SOUNDNESS TESTS	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	52.0	13 25		52.0					
S-5 0978		20 42	20 2.0		V-DENSE	TAN PARTLY RED	SILTY SAND - SAND - FINE - MEDIUM FINE-MEDIUM SAND TR SILT	SW S-5 51-53' SATURATED 0.0 PM HNU	
S-6 0985	54.0	37 42	20 2.0		V-DENSE	RED	FINE-COARSE SAND TR SILT CLAY	SW S-6 53-55' SATURATED 0.5 PM HNU	
	56.0			56.0					
					BOTM 56.0				

REMARKS BOTM -56' WELL SCREENED 46-56'  
WATER LEVEL 51'  
SATURATION N 50'

BORING SB322  
 PAGE 3 : 3



BORING LOG

NUS CORPORATION

PROJECT: WWRP Beirpase

BORING NO.: 318

PROJECT NO.: 325.1

DATE: 8-28-91

DRILLER: Jose Miranda - LDT

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: R. Atarcky

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (N)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	
	0					Bl sand w/cinders organic	
	2						
		7 6				Bl 6" sand w cinders organic	
3"	4	5 6	15" 24"			He br 12" coarse sand gravel to .75"	H2O in hole 7ppm Sample at 0820
						He br coarse sand gravel to .75"	
	6						
	8						
	10						
	12					Yell br fine to med sand gravel to .75"	
	14						
	16					Yell br fine to med sand gravel to .5"	
	18						
		7 8					
3"	20	9 8	18" 24"			Yell br fine to med sand gravel to .5"	Wet H2O in hole H2O 7ppm spec
	22						
	24						

REMARKS H2O Background 3ppm

BORING 318

PAGE 1 : 3

BORING LOG

NUS CORPORATION

PROJECT: W.W. PP Beach page

BORING NO.: 318

PROJECT NO.: 3281

DATE: 8-28-91

DRILLER: Joe Miranda - AOT

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: R. Torrey

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR LOG	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	
						yellow br	fine to med sand gravel to .5'
	26						less gravel
	28						
	30						
	32						
	34						
	36						
	38					dk br yel br	fine to med sand gravel to .5' fine to med sand gravel to .5'
	40	4 3				wt yellow	6' fine sand w/ clay & mica
2'		4 4	18" / 24"			wt yel	12' fine sand w/ gray clay
	42	6 3				wt yel	6' fine sand w/ gray clay
2"		5 7	24" / 24"			wt yel yel red	12" fine sand w/ silt 5' fine sand
	44	6 9					
2'		7 11	18" / 24"			yel red	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
2"		6 6	16" / 24"			yel red	4" fine sand

REMARKS Approx water table 48' 8"

BORING 318

PAGE 2 : 3

PROJECT: NWLRP Bethpage ..... BORING NO. 318  
 PROJECT NO.: 3281 ..... DATE: 8-28-91 ..... DRILLER: Joe Miranda - ADT  
 ELEVATION: ..... FIELD GEOLOGIST: R. R. Tarrity .....  
 WATER LEVEL DATA : .....  
 (Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (ft.)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			S O B O O S U S R E C O N D I T I O N S	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	50	17 21							
2"		32 43	24" / 24"			yellow	12" med to coarse sand		
	52					wt	12" fine sand		
						wt	fine to med sand		total depth 52.5 ft.
	54								sample @ 1046

REMARKS At 1000 water level 49.5 ft depth 52.5 ft.  
pulled 5 ft auger water level 48 ft.  
depth 52.5

BORING LOG

NUS CORPORATION

PROJECT: NW 1/4 Bethpage BORING NO.: 316  
 PROJECT NO.: 3281 DATE: 8-28-91 DRILLER: Joe Miranda - AOT  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: R. P. Tarcik  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOW- S' OR ROD (N)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		SPECIAL NOTES	REMARKS
					SOL. DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR		
	0							
	2	4 3						
3"	4	6 5	15" 24"		dk br	4" asphalt 12" organic cinder & gravel 18" brown coarse sand w/ black organic & roots		
	4				dk br	12" wet organic w/ clay 4" sand w/ gravel to .75"		Sample @ 1210
	6				dk br	coarse sand gravel to 1.5"		
	8							
	10							
	12				br	coarse sand gravel to 1.5"		
	14							
	16				br	coarse sand gravel to .5"		
	18							
	20	7 8 11 10	26" 24"		br	6" coarse sand gravel to 1"		
3"	20				br	18" coarse to med sand .5" gr.		Sample @ 1225
	22				br	coarse to med sand gravel .5"		
	24							

REMARKS 3'-5' 2 borings 3 spoons #2, 4.5-6.5 #3-6. - -5

BORING 316

PAGE 1 of 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: NWIRP Beth Page  
 PROJECT NO.: 3281  
 ELEVATION: \_\_\_\_\_  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

BORING NO.: 316  
 DATE: 8-28-91  
 DRILLER: Joe Miranda - AOT  
 FIELD GEOLOGIST: R. Patorczyk

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	SLOWS "S" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	26					br	coarse sand gravel to .5"	
	28							
	30							
	32							
	34							
	36							
	38							
	40							
	42							
	44							
		5				yellow		
		7				wh	12" Fine to med sand	
2"	46	4	24"	24"		yellow	12' Fine to med sand	
		5				red		
		9						
		10						
2"	48	11	24"	24"		wh, yel	12' Fine sand.	
		9				red		
		11				yel		
		10				br.	6' Fine sand.	water at 49.5

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING 316  
 PAGE 2 : 3

BORING LOG

NUS CORPORATION

PROJECT: AWRP Bethpage BORING NO: 316  
 PROJECT NO: 3281 DATE: 8-28-91 DRILLER: Jose Miranda - DOT  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: R. Atarcity  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (Dip, etc.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOM DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
24	50	15 12	18' 24'		light br red red/yell br	6" Fine sand 6" Fine sand Fine sand	Saturated Final water level 51 ft	
	52							
	54							
	56							
	58				red/yell br	Fine sand gravel to 1.5"	56.5 ft bottom. Sample @ 1245	
	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: WWIRP Bethpage

BORING NO.: 314

PROJECT NO.: 3281

DATE: 8-30-91

DRILLER: MARK - AOT

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: R. Starvick

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (FEET) OR RUN NO.	BLOWS 5" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, Ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	0					gr br	4" asphalt 8" grey brown sand gravel	
						dk br	12" med sand.	
	2					br	12" coarse sand gravel to 1"	No elev HUC?
		34 60				rd br	2" coarse sand	See Spoon #2 below
3"	4	ret.	5' 24"			wt br	2" coarse sand	
						wt br	2" coarse sand gravel to 2"	
						lt br	coarse sand gravel to 2"	
	6							
	8							
						k 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  
in Spoon #2 12" wt br: coarse sand gravel to 2"

BORING 314  
 PAGE 1 of 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: AWRP Bethpage BORING NO.: 314  
 PROJECT NO.: 3281 DATE: 8-30-91 DRILLER: Mark ADT  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: R. A. Torrey  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 5" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			B O R I N G U S E R C O N S E S S	REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
						lt br	coarse sand gravel to .5"		
	26								
	28								
	30								
	32								
	34					lt br	coarse sand gravel to 1"		
	36								
	38								
	40	21 23				lt br	silty moist med sand		MOIST
2"		25 28	24" 24"			wt	very silty fine sand		no elev H <sub>2</sub> O
42		28 30				wt	22" very silty fine sand		saturated at top
2"		25 28	23" 24"			rd	at 4" from bottom 1/4" iron sand 1" orange clay		no elev H <sub>2</sub> O
44		4 5				wt	12" runny silty fine sand		saturated
2"		12 17	24" 24"			wt	12" silty fine sand		no elev H <sub>2</sub> O
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: NRW AP 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 LOG NO.	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	<u>50</u>				<u>wt</u>	<u>very silty fine sand</u>	<u>saturated</u>	
	<u>52</u>						<u>51 ft well depth</u>	
	<u>54</u>						<u>sample c 1040</u>	
	<u>56</u>							

REMARKS at 1005 water level 46'-2" total well depth 51 ft. pulled 5 feet of water

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 (AAT)  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: D. YOST  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. 6 TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	0.0			1.0			ASPHALT - 3" THICK GRINDED ROCK FILL	Fill - 1'
	2.0				BROWN		SAND AND GRAVEL	SW
	4.0	21 39						
6-1 1628		45 51	20 20		DENSE LT BROWN		FINE-COARSE SUBROUNDED SAND AND GRAVEL 4'	SW 5-1 3-5' & SENT TO LAB DAMP APP-MNY
	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
5-2 1700		18 18	20 2.0		DENSE LT BROWN		SUBROUNDED GRAVEL < 2" TR SILT	5-2 14-21" & SENT TO LAB DAMP APP-MNY
	22.0							
	24.0							

REMARKS MOBILE B-57 RIG 2 1/4" x 1/4" IS HOLLOW STEM AUGERS. 140 LB HAMMER DROPPED  
30" FOR SPLIT-SHOWN SAMPLES. 3" SPONS FOR SAMPLES TO BE SENT TO LAB  
2" I.D. SPONS FOR LITHOLOGICAL SAMPLES.

BORING SB 307  
 PAGE 1 : 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PAGE

BORING NO.: SB 307

PROJECT NO.: 3281

DATE: 8-27-71

DRILLER: FRANK REAMER (AOT)

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: D. YOST

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 5" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	26.0					TAN Brown	SAND SOME GRAVEL	
	28.0							
	30.0							
	32.0					MEDIUM Brown	WELL GRADED SAND TR GRAVEL	
	34.0							
	36.0							
	38.0							
	40.0							
	42.0							
	44.0							
	46.0							POSSIBLE WATER AT 45
		23				BROWN		
S-3 1722	48.0	41 52 50/4	7.0 2.0			REO- WHITE	FINE COARSE SAND TR SILT	SW S-3 46-48' UPPER HALF SATURATED
		45 66					TOP 1' IS FINE TO COARSE SAND W/ SILT & CLAY	
S-4	50.0	70/30	2.0 2.0			PROBLE REO- WHITE	FINE TO MED SAND W/ SILT & CLAY	S-4 48-50' TOP HALF OF SAMPLE SAND TO BE BLOW IN PER DRILLER

REMARKS \_\_\_\_\_

BORING SB 307

PAGE 2 of 3



**BORING LOG**

**NUS CORPORATION**

PROJECT: RETYPAGE ..... BORING NO.: SR 304  
 PROJECT NO.: 3751 ..... DATE: 8-28-91 ..... DRILLER: Rich. REARDEN (ACT)  
 ELEVATION: ..... FIELD GEOLOGIST: A. Yost  
 WATER LEVEL DATA: .....  
 (Date, Time & Conditions) .....

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR ROD NO.	BLOWS 6" OR ROD (N)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (ID+INJL) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	0.0			0.5			CONCRETE - 0.8' THICK.	
	2.0				TAN-BROWN		SAND AND GRAVEL	
							SAME FINE-COARSE GRAVEL SUBSEQUENT 6.1'	
	4.0	24						
S-1 0825		44	1.9		DENSE	TAN-BROWN	IR SILT SAND WITH SOME GRAVEL	SW 5'-1 3-5' & SENT TO LAB
		70	2.0				FINE-COARSE GRAVEL SUBSEQUENT 6.3'	
	6.0							HNU-NA BLOWCOUNTS MAY NOT REPRESENT THE DENSITY OF THE SOIL. LARGE RINGS OF GRAVEL MAY HAVE CAUSED INCREASED BLOWCOUNTS
	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					FINE-COARSE SAND AND GRAVEL	SW
S-2 0900		27	2.0		DENSE	TAN-BROWN	FINE-MEDIUM GRAVELS	SW 5'-10.21' & SENT TO LAB 2.5 PCM. HNU MOIST GRAVEL IS SUB. ROUNDED
		32	2.0					4.1'
	22.0							
	24.0							

REMARKS: MOBILE B57 RIG. 3" INCH I.D. HOLLOW STEM AUGERS. 140 LB HAMMER DROPPED 30" TO GET SPLIT SPON SAMPLES. 3" I.D. SPONS FOR SAMPLES TO BE SENT TO LAB. 2" I.D. SPONS FOR LITHOLOGICAL SAMPLES

BORING SR 304

PAGE 1 OF 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETHPAGE ..... BORING NO.: SB 304  
 PROJECT NO.: 3281 ..... DATE: 8-27-91 ..... DRILLER: BOB BEAUMANN (AGT)  
 ELEVATION: ..... FIELD GEOLOGIST: A. 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		S U B S E R C O N S E C S S	REMARKS		
					SOL. DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR				
	26.0					TAN-BROWN		SAND AND GRAVEL		MOIST
	28.0							SAND IS FINE-COARSE GRAVEL IS SUBBONDED		
	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 09-40	46.0	50/4	1.7 2.0		U. DENSE	TAN		TR SILT, CLAY		S-3 44-46' MOIST - U. MOIST
						↓		↓		WATER - 46.5 - 1.8 BK
	48.0					TAN		MEDIUM-COARSE SAND	SW	
		13 20				BROWN		FINE-COARSE SAND TRSIT	SW 1/3M	
S-4 10-0	50.0	51 51/5	2.0 2.0		U. DENSE	↓		↓		S-4 48-50 SATURATED 0 PPM-HNU

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING SB 304  
 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. Patacring  
 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			REMARKS
					SOL. DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	0			4-1/2"		bl	sandy organic	
					br	coarse sand gravel to .75"		
	2							
		6						
		29						
3"	4	23	6" / 24"			br	coarse sand gravel to .75"	Sample at 1657
		20				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 of 3



**BORING LOG**

**NUS CORPORATION**

PROJECT: ADWRP BeEnpage BORING NO.: 229  
 PROJECT NO.: 3281 DATE: 8-28-91 DRILLER: Joe Miranda - RDT  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: R. Patarcy  
 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			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
				CLAY		br	coarse sand gravel to 25"	
	26							
	28							
	30							
	32							
	34							
	36							
	38							
	40	6 5 9	12" 24"			wt br	med to coarse sand	H2O 1.6 ppm
2"	42	17 19				wt br	12" med sand	
2"	44	15 18 39 36	14" 24"			2" ironstone	no elev H2O	
2'	46	45 40	24" 24"		wt br	24" med sand	no elev H2O	
2'	48	17 28						
2'		25 22	18" 24"		wt br	18" med sand	H2O spoon 1.4 ppm	
	48	13 32			wt br	12" med sand gravel to 5"	water at 49 FT	
2"		52 50	15" 24"		wt	5" wt sand w/ironstone	no elev H2O	

REMARKS H2O Background 1.0 ppm  
water 49 ft on cutting head.

BORING 229  
 PAGE 2 of 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: NEW RP 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 ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	50	6				red	10' med sand	
2"		7	18' 24"			br	4' med sand	
		7				wt	4' med sand	
	52					wt	med sand	
	54							
	56							
	58							Sample at 1745

REMARKS At water level 53'4" total depth 56'3"  
After 2 feet of a new water level 54'5"

BORING 229  
 PAGE 3 : 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: NWIRP Bethpage

BORING NO.: 227

PROJECT NO.: 328.1

DATE: 8-29-91

DRILLER: Joe Miranda - AOT

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: R. Atarcky

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (ft)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		SOUNDNESS CONCISE	REMARKS	
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR			
	0					bl	8' organic sand med.		
						br	6" coarse sand gravel to 2" med sand		
	2					br	10' med sand gravel to .75'		
		8 10				yel br	15' med to coarse sand gravel to .75'		No elev H <sub>2</sub> O
3"	4	54 res.	18" / 24"			yel bl	2' ironstone gravel		Sample # 1507
						br	med sand gravel to .75"		
	6								
	8								
	10					br	med sand gravel < .75"		
	12								
	14								No elev H <sub>2</sub> O in hole
	16					br	med sand gravel < .5"		
	18					br	med sand gravel to 2.5"		
						br	med sand gravel to .5'		
	20								
	22								
	24								

REMARKS H<sub>2</sub>O background 4 ppm

BORING 227

PAGE 1 of 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: NW 1/4 R.P. Bethpage BORING NO.: 227  
 PROJECT NO.: 3281 DATE: 8-29-91 DRILLER: Joe Miranda - ADT  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: R. Paterson  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR LOG	DEPTH (ft) OR RUN NO.	BLOWS 8" OR LOG (%)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			SOUNDNESS TESTS	REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
						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 red br	6" ironstone gravel sand 6" fine to med sand		HWL 8 ppm spec
		11 7				wt br	6" med sand gravel to .5"		saturated at 46' 6"
2'	48	13 7	12" 24"			red br	6" med sand		HWL 8.5 ppm spec
		4 5				red br wt br	2" med sand 12" med sand		saturated spec

REMARKS HWL background - 4 ppm

48' Ft Final water level

BORING 227

PAGE 2 :: 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: W. P. Bed page BORING NO: 227  
 PROJECT NO: 3281 DATE: 8-29-91 DRILLER: Joe Miranda - A.D.T.  
 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 (ft)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			SOUNDNESS TESTS	REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
2"	50	6 5 7	15' / 24"	LITHOLOGY CHANGE (Depth, ft) OR SCREENED INTERVAL		gr	4" silty clay sand		NUT 6 ppm spoon saturated.
		7 6 7			wt br		12" med sand 2" black sandy clay		
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' wiser - water level 48 ft, total depth 55 ft

BORING 227  
 PAGE 3 :: 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PAGE BORING NO.: SB 225  
 PROJECT NO.: 3281 DATE: 8-29-91 DRILLER: RICK 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		SOL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	S O R O K U R E C O N S I S S	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. Densi Brown		SAND AND GRAVEL SAND IS FINE-COARSE GRAVEL SUB-ROUNDED 1/4"	SW	5'-1 3/4' & SENT TO LAB DAMP OFRM-MNU GRAVEL CONSIST MOSTLY OF QUARTZ
	6.0								GRAVEL SEAM		
	8.0			8.5					7-8.5' SANDY CLAY - V. MOIST		
	10.0			9.5							
	12.0										
	14.0										
	16.0										
	18.0										
	20.0										
	22.0										
	24.0										

REMARKS MARK R57 R.G. 2 1/4" I.D. HOLLOW STEM AUGERS. 140 LB HAMMER DROPPED  
20" FIR SPLIT SPINS. SAMPLES TO BE SENT TO LAB - 3" 2.0 SPINS. 2" F.O. SPINS.  
FOR LITHOLOGICAL SAMPLES

BORING SB 225  
 PAGE 1 OF 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PAGE BORING NO.: SR 225  
 PROJECT NO.: 32 81 DATE: 8-29-91 DRILLER: RICH BAUMAN (ACT)  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: D. YEST  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH IN FEET OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Down.HI) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		CORRECTIONS	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR		
	26.0			SAND		BROWN SAND AND GRAVEL		
	28.0							
	30.0							
	32.0							
	34.0							
	36.0							
	38.0							
	40.0							
	42.0							
	44.0							
	46.0					GRAVEL RE-ENTERS ?		
	48.0	23				SAND - FINE - COARSE WITH	GRAVEL IS SURROUNDED	
S-7 M44		49	1.9		J. GENSE	SOME GRAVEL TR. RED SILT " 2 1/2" SAND	SW S-7 47-49 OFF M-HW SATURATED	
	50.0	14	24				WATER 49 - DRILLER	

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING SR 225  
 PAGE 2 : 3





**BORING LOG**

**NUS CORPORATION**

PROJECT: DWIRP Bethpage

BORING NO.: 219

PROJECT NO.: 328.1

DATE: 8-29-91

DRILLER: Joe Miranda ADT

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: R. Ratawsky

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (Depth ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	0					dk br	12" med sand gravel to .5"	
	2					br	med sand gravel to .5"	
		6				br	med sand gravel to .5"	
		6				dk br	6" sandy clay	No test HNU
		4				br	12" sandy clay organic	
3'	4	4	24" / 24"			br	6" coarse sand gravel to .75"	Sample at 0730
		7				br	coarse sand gravel to 1"	
	6							
	8							
	10					gr	clay sandy layer	
	12					br	coarse sand w/ brn clay	
	14							becoming less clayey
	16							
	18							
	20					br	coarse sand gravel to .5"	minimal clay
	22							
	24							

REMARKS: HNU Background = 4 ppm  
3'-5' sample 2-3" apertures Spans +29 6-6-4-7

BORING 219  
 PAGE 1 of 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: UWIRP Bethpage BORING NO.: 219  
 PROJECT NO.: 3281 DATE: 8-29-91 DRILLER: Joe Miranda - R.O.T.  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: R. Patorczyk  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE - OR HQD	DEPTH (ft.) OR RUN NO.	BLOWS 4" OR HQD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	26					br	coarse sand gravel to 5'	
	28							
	30							
	32							
	34							
	36							
	38							
	40							
	42					br	coarse sand lim. gravel	
	44							
2"	46	7 8 5	12" / 24"			lt br	12" coarse sand	Water at 46 ft HNU 8pm 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 :: 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: 12WIRP Bethpage BORING NO.: 219  
 PROJECT NO.: 3281 DATE: 8-29-91 DRILLER: Joe Miranda-AOT  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: R.R. Torchy  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR LOG	DEPTH (FL) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			SOUNDNESS CONCISES	REMARKS
					SOL. DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	50			LITHOLOGY CHANGE			H <sub>6</sub> coarse sand		
	52								
	54								

54 total depth  
 Sample # 0908

REMARKS 54 ft total depth.

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BORING 219  
 PAGE 3 : 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: WIPP Beth page

BORING NO.: 218

PROJECT NO.: 3281

DATE: 8-29-91

DRILLER: Joe Miranda - ADT

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: R. Talarczyk

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (FL. OR RUN NO.)	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, FL) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOB DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	0					dk br	organic coarse sand	
						br	coarse sand gravel to .75"	
	2							
		5				bl	12" organic coarse sand	Sample @ 1020
3"	4	6 1/3	18" 24"			br	6" coarse sand gravel to 1"	N10 Spm spoon
						br	coarse sand gravel to 1"	
	6							
	8					red br	coarse sand less gravel	
	10							
	12							
	14							N10 in hole no elev
	16							
						br	micro brown clay	
	18					br	coarse sand gravel to 1"	
	20					br	coarse sand gravel to .5"	
	22							
	24							

REMARKS N10 Backsand - 2 ppm

BORING 218

PAGE 1 of 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: NW1 RP Bethpage BORING NO.: 218  
 PROJECT NO.: 3281 DATE: 8-29-91 DRILLER: Joe Miranda-AJT  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: R. Torcetti & Fred Ranser  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 5" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		SOUNDNESS TESTS	REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR MATERIAL CLASSIFICATION		
	26				br	coarse sand gravel to 5"		
	28							
	30							
	32							
	34				br	lighter brown		
	36							
	38							moist
	40							
	42				lt br	med. sand		water w/ water no spec
	44							
*	2" 46	4 5 6 7	12" / 24"		lt br	coarse fine sand w/ gravel silt		saturated
	2' 48	5 6 8 9	12" / 24"					

REMARKS water level 43 ft.

BORING 218

PAGE 2 of 3

BORING LOG

NUS CORPORATION

PROJECT: MWRP Dempage BORING NO.: 218  
 PROJECT NO.: 3281 DATE: 8-29-91 DRILLER: Joe Miranda AOT.  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: R. Datar, C.G. / F. 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			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
2"	50	4	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. Atarcky

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			REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	0					br	5" fine sandy organic	
						br	6" coarse sand gravel to 1"	
	2					br	12" coarse sand gravel to 1"	
		4				dk br	med sand w/organic	
		5				dk br	15" med sand w/organic	
3"	4	4	24" / 26"			br	5" coarse sand gravel to 1"	Sample at 1537
		3						
	6							

REMARKS: HLW Background = 5 ppm

BORING 217  
PAGE 1 of 1

**BORING LOG**

**NUS CORPORATION**

PROJECT: WWIRP Bethpage BORING NO.: 215  
 PROJECT NO.: 32-81 DATE: 8-29-91 DRILLER: Joe Miranda - ADT  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: R Polarity  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (FEET) OR RUN NO.	BLOWS 5" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (DEPTH) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	0					br	coarse sand w block stain	
	2							
		2						
		3						
3"	4	2	24"			br	12' coarse sand gravel to 2"	NW 8pm hole #1
						br	8" organic w sands	Sample 1250.
						br	4" coarse sand	
						br	med to coarse sand gravel .75	
	6							
	8							
	10					br	med sand gravel to .75	more gravel
	12							
	14							
	16							
	18							
		3						
		5						
3"	20	4	12" 24"			br	coarse sand gravel to 1"	Worked NW
						br	med sand gravel to .5"	Sample #1008
	22							
	24							

REMARKS 3'-5" span #2 → 2-3-4-2 oring #2 span #3  
→ 3-4-2-2  
NW 2" back ground = 1 pm

BORING 215  
 PAGE 1 : 3



**BORING LOG**

**NUS CORPORATION**

PROJECT: AWIRP Bethpage BORING NO.: 215  
 PROJECT NO.: 3281 DATE: 8-29-91 DRILLER: Joe Miranda-ADT  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: R. Potarcity  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			S O R O U S R E C O N S I D E R S	REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	26						lt br med sand gravel to .5"		
	28								
	30								
	32								
	34								
	36								
	38								
	40	9 11							moist at 41'
2"		8 13	12"	24"		yell br	12" med sand		no elev H <sub>2</sub> O
	42	17 16							H <sub>2</sub> O 1.5 ppm spec
2"		11 13	18"	24"		yell br	16" med to coarse sand 2" iron stone gravel		very moist
	44	7							saturated at 45'
2"		11 9	14"	24"		wt br wt	6" coarse sand gravel to .5" 8" med sand		H <sub>2</sub> O 2.0 ppm spec
	46	10 11							Final water level
2"		9 E3	18"	24"		wt	18" med sand		saturated.
	48	6 9							H <sub>2</sub> O 1 ppm
2"		14 17	15"	24"					saturated

REMARKS Final water level 47 Ft. depth 57.5 Ft

BORING 215

PAGE 2 of 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: AWIRP Bethpage BORING NO: 215  
 PROJECT NO: 3281 DATE: 8-29-91 DRILLER: Joe Miranda ADT  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: R. Patarecity  
 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			SOUNDING RECORDS	REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	50				wt br		med sand		satwated
	52								525' well depth
	54								
	56								

REMARKS Roll up 2 ft auger from 55' to sample

BORING 215  
 PAGE 3 : 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PAGE BORING NO.: SB 209  
 PROJECT NO.: 3281 DATE: 8-30-91 DRILLER: ROD BEAMAN (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 (ft)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS	
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	0.0			11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0		LIGHT BROWN	Silty sand with some gravel well rounded 2" dia		
	2.0					DARK BROWN			
						REDDISH BROWN	SAND AND GRAVEL		
	4.0	9							
S1		15							
A45		34	LC			DENSE	REDDISH BROWN	SAND AND GRAVEL	SW 3-5" DAMP
	6.0	32	20					SAND IS FINE - COARSE GRAVEL IS SUB-ROUNDED < 3"	OPAM - NARY
	8.0				8.0			SEAM OF GRAVEL - DRILL	
	10.0							GRAVEL	
	12.0				17.0	BROWN		SAND AND GRAVEL	
	14.0								
	16.0								
	18.0								
	20.0								
	22.0								
	24.0								

REMARKS MOBILE B57 RG. 3 1/4" 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" 2.0 SPOONS FOR LITHOLOGICAL SAMPLES.

BORING SB 209

PAGE 1 OF 2

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PALE BORING NO.: SB 209  
 PROJECT NO.: 3781 DATE: 8-20-91 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		CORRECTIONS	REMARKS	
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR			
	26.0			31.0		200/100			
	28.0								
	30.0								
	37.0								
	34.0								
	36.0								
	38.0								
	40.0								
	42.0								
	44.0								
	46.0								
	48.0								
	50.0								

REMARKS WELL SCREENED 22-32'  
WATER LEVEL 23'

BORING SB 209  
 PAGE 2 : 2

**BORING LOG**

**NUS CORPORATION**

PROJECT: NWIRP Bethpage

BORING NO.: 206

PROJECT NO.: 3281

DATE: 8-29-91

DRILLER: Joe Miranda-AOT

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: R. R. Torrey

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			REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	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						
3"	4	4 2	15" 24"			br	15" coarse sand gravel to 1" 5% organic	Sample # 1813 No clear H <sub>2</sub> O
	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: 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 ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
						D-BRN	TOP SOIL SANDY SILT w/ TRILAY	ORGANIC MATERIAL 0.5'
	2					Light BRN	CLAYEY SILT w/ GRAVEL < 1/8" dia	.5'
S-1 1555	4	18 43 53 65	1.5 2.0		DENSE P	Light BRN	COARSE TO FINE SAND WITH SOME GRAVEL TR/SILT <sub>2</sub>	SW S-1 1555 Oppm HMI GPR-ANALYZED TO 20' DEPTH GRAVELS ARE CHERT, QTS, PLUTONIC comp. 1/8" dia
	6							
							GRAVEL ZONE @ 6.5' PER DRILLER	2-3' dia GRAVEL
	8							
							GRAVEL ZONE @ 4' PER DRILLER	
	10							
	12							
	14							
	16							
						D-BRN	FINE-COARSE SAND WITH SOME GRAVEL GRAVEL < 1/8" dia.	
	18							
	20							
	22							
	24				BRN		MORE GRAVEL NOTED BY DRILLER APPROX. 24" DIA	WELL PENING TO SUBDRILLER gravel QTS + CHERT
							AS ABOVE	

REMARKS MOBILE - B357 RIG. 14016 HAMMER DROPPED 30", 3/4" TO HSA.

BORING SB205

PAGE 1 OF 3

\* MAYBE AFFECTED BY GRAVEL SIZE + ABUNDANCE

**BORING LOG**

**NUS CORPORATION**

PROJECT: BATH 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 ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			CORRECTIONS	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	26						AS ABOVE		
	28								
	30								
	32								
	34								
	36								
	38								
	40								
S-2	42	11			ORANGE TO RED		FINE TO COARSE SAND WITH TRACE CLAY 42-44'	SW	BOTTLED SAMPLE FROM ORANGE TO RED WITH FIVE LAYERS OF CLAY 42-44'
		27							S-2 42-44' MUDST
	44	32	1.8	2.0	V-DENSE				
		39							
S-3	46	19			MOTTLED RED WHT SAND		FINE TO COARSE SAND WITH TRACE SILT INTERLAYERED COARSE SANDS - RED TO FINE SAND	SW	S-3 45-47' MUDST, VERY COARSE SAND LENS 7" IN THICK
		26							
		28	1.0	2.0					
		24							
S-4	48	25			RED TAN/SILT		1 FT. OF FINE TO COARSE SAND W/ SILT BOTTOM SECTION FINE TO RED SAND W/ SILT	SW	S-4 Huv 3ppn 42-49'
		35							
		45	1.5	2.0	V-DENSE				
		70							
	50								

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING SB205  
 PAGE 2 : 3





**BORING LOG**

**NUS CORPORATION**

PROJECT: RETH PAGE

BORING NO.: SB 204

PROJECT NO.: 3281

DATE: 8-29-91

DRILLER: RICH BERGMAN (AAT)

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			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	0.0			1.0		DBROWN	Humid SAND, SILT	
	2.0					BROWN	SAND AND GRAVELS	
	4.0	22 33				LIGHT BROWN	FINE TO COARSE SAND WITH SOME SILT AND FINE TO MED. GRAVEL	
5.5 OSM		65 75	1.8 2.0					SW SUB-BOUNDED TO (1) ANGULAR GRAVEL 1.5" TO 2" dia. SI - 3-5' & SENT TO LAB DAMP 1.5 ppm H2O DUPLICATE SAMPLE FOR ENGINEERING PARAMETERS
	6.0							
	8.0							
	10.0						GRAVEL ZONE PER DRILLER SAND WITH GRAVEL 50% GRAVEL 50% SAND	SW
	12.0						AMOUNT OF GRAVEL DECREASES. STILL APPROX 40%	
	14.0							
	16.0					DBRN	SANDY CLAY W/ 20% GRAVEL	SI
	18.0							
	20.0						GRAVEL ZONE PER DRILLER	
	22.0							
	24.0							

REMARKS MORILE B57 RIG. 3/4 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 : 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PAGE BORING NO.: SB 704  
 PROJECT NO.: 3281 DATE: 8-29-91 DRILLER: RICH BEAUMAN (AOT)  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: D. YO ST  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. S TYPE OR ROD	DEPTH (FT) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (DIP, FL) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		CORRECTION COEFFICIENTS	REMARKS	
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR			
	26.0			Lithology Change		LT. BROWN			
							SAND AND GRAVEL		
							SAND IS FINE-COARSE		
	28.0						GRAVEL IS FINE-MEDIUM		
							SUBROUNDED		
	30.0								
							GRAVEL CONTENT		
	32.0							DECREASING WITH 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	46 22				TAN			
52 0907		42 60	20 20			BROWN WHITE			
								5-2 47-49' 2-2 PPM - NAJU	
	50.0	26 31				WHY -		MOIST - U. MOIST	

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING SB 704  
 PAGE 2 : 3



**BORING LOG**

**NUS CORPORATION**

PROJECT: ERTH PAGE 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 ROD	DEPTH (FT) OR RUN NO.	BLOWS 8" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (DOWN H.L.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	0.0			LD		0.92W	SAND: + S-LT	
	2.0					BROWN	SAND AND GRAVELS	
	4.0	8 14						
S-1 1150		41 96	1.7 2.7		DENSE	LT BROWN	SAND AND GRAVEL TRSIT	S-1 3-5' & SENT TO LAB DAMP OPPM - HALL
	6.0						SAND IS FINE-MEDIUM 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 857 RC. 3/4" I.O. N.S.A. 140 LB HAMMER DROPPED 30" FOR SPLIT SPOON  
SAMPLES. 3" I.O. SPOONS FOR SAMPLES TO BE SENT TO LAB. 2" I.O. SPOONS FOR LITHOLOGICAL  
SAMPLES

BORING SB 202  
 PAGE 1 : 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PAGE BORING NO.: SB 202  
 PROJECT NO.: 3261 DATE: 8-29-91 DRILLER: RICH BEAMAN (CAPT.)  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: A. Yosi  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. S TYPE OR R.O.D.	DEPTH (ft) OR R.O.D. NO.	BLOWS 6" OR R.O.D. (%)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			SOUNDNESS TESTS	REMARKS	
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION			
	26.0			LITHOLOGY		LT Brown	SAND AND GRAVEL	SW	(AS ABOVE)	
	28.0									
	30.0									
	32.0									
	34.0									
	36.0				35.0			SAND TR SILT FINE-MEDIUM		OUT OF GRAVEL 35'?
	38.0									
	40.0									
	42.0									
	44.0									
	46.0									
	48.0	15 22				BROWN	SAND - FINE (COARSE SAND) (PASS #20)	SW		
S-2 RIS		22 22	1.8 2.0	48.7		BROWN	SILTY CLAY SOME SAND CLAY SAND 1/2" THICK		S-2 TT-4G DAMP-MOIST OPPM-HNU	
	50.0	6 10				BROWN	SILTY CLAY SOME SAND			

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING SB 202  
 PAGE 2 : 3

PROJECT: BETH PAGE BORING NO.: SB 202  
 PROJECT NO.: 3261 DATE: 8-29-91 DRILLER: RICH BERGMAN (ADT)  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: D. Yost  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR ROD RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			SPT VALUE	REMARKS
					SOIL DENSITY OR CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
S-3 1225		18 35	2.0 2.0	46.6		BROWN	FINE-MEDIUM SAND-TO SILT	Sm	3-3 40-51 SATURATED
	52.0	16 33				WHITE-TAN	FINE SAND SOME SILT	Sm	0ppm-HMU
S-4 1240		42 79	2.0 2.0			WHITE-TAN	FINE-COARSE SAND TL	Sw	3-4 51-53 SATURATED
	54.0						ORANGE SILT LENSES, FINE GRAIN CHANNEL		0ppm-HMU
	56.0			56.0					
					BOTM - 56.0'				

REMARKS WELL SCREEN 46.56  
SATURATION IN SOILS AT ~49'  
WATER LEVEL 50.3

BORING SB 202  
 PAGE 3 : 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PAGE BORING NO.: SB 123  
 PROJECT NO.: 3281 DATE: 8-28-91 DRILLER: RICH BEAUMAN (AET)  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: D. YOST  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. OR TYPE OR ROD	DEPTH FEET 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	REMARKS
					COLOR	MATERIAL CLASSIFICATION		
	0.0					D. BROWN	SAND SOME GRAVEL TR SILT	TOP 2' HUMUS ORGANIC SOIL
	7.0							
						REDISH BROWN	SAND SOME GRAVEL	SW
	4.0	8				TAN BROWN	SAND SOME GRAVEL	SW
S-1 K06		13	1.8			TAN BROWN	FINE-COARSE SAND SOME SILT, GRAVEL, TR CLAY	SW/fo S-1 5-5' SENT TO LAB DAMP - SLIGHTLY MOIST 1ppm - HNU
	6.0	19	2.0					
	8.0							
	16.0							11-12 LARGE GRAVELS - COBBLES - DRILLER
	12.0							
	14.0							
	16.0							
	18.0							
	20.0	11					GRAVEL IS SUBROUNDER < 2"	
S-2 1237		26	1.9			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	26	2.0					
	24.0							

REMARKS MOBILE B57 RIG 3" INCH I.O.D. HOLLOW STEM AUGERS. 140 LB HAMMER  
DROPPED 30" FOR SLITSPOON SAMPLES. 3" I.O.D. SPINNE FOR SAMPLES TO BE SENT TO  
LAB. 2" SPINNE FOR LITHOLOGICAL SAMPLES.

BORING SB 123  
 PAGE 1 : 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PAGE BORING NO.: SB 723  
 PROJECT NO.: 3281 DATE: 8-27-91 DRILLER: RICH BEAUMAN (ACT)  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: D. YOST  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR ROD RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		REMARKS
					SOL. DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	
	26.0			35.0?	TAN-BROWN	SAND AND GRAVEL	SW
						SAND IS FINE-COARSE GRAINED GRAVEL IS SURROUNDED & 1/2" DIA	
	28.0						
	30.0						
	32.0						
	34.0						
	36.0				LT BROWN	FINE-MED SAND TR COARSE SAND TR GRAVEL - V. FINE SURROUNDED	
	38.0						
	40.0						
	42.0						
		10 19			MULTI-CO 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 - H NU MOIST - V. MOIST
		15 20			TAN- WHITE	FINE-MEDIUM SAND	SW
S-4 1310	46.0	26 29	1.6 2.0		DENSE RED	FINE-COARSE SAND	SW S-4 44-46' COAR GRADES 1.5 PPM - H NU TAN-UT-RED
				47.0	DENSE TAN- BROWN	SILTY CLAYEY SAND	SC 0.5' SATURATION 45% 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 RED. SH BROWN	SILTY SAND	SM S-5 47-49' SATURATED 0.5 PPM
	50.0	10 21			RED. SH BROWN	SAND TRS-LT SAND FINE- MEDIUM	

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING SB 723

PAGE 2 : 3





PROJECT: NWIRP Bethpage BORING NO.: 121  
 PROJECT NO.: 3281 DATE: 8-27-91 DRILLER: Joe Miranda: ADJ.  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: R. Atar City  
 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			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	0					Black	cinders & gravel <.75"	
						DK Br.	coarse sand organic gravel <.75"	
	2						↓	
		3				Br.	16" sandy organic	
3"	4	2	24"			Br.	4" saturated grey clay	Sample # 1408
		6				16br	coarse sand gravel <.75"	
	6							
	8							
	10							
	12							
	14							
	16							
	18							
		9						
		11						
3"	20	16	14"			16br to br.	coarse sand gravel to .25"	MAX Spoon 20ppm Osm hole 200pp
		12	24"			16br	coarse sand gravel to .75"	Sample # 1415
	22							
	24							

REMARKS At 3'-5' 2 spoons taken Spoon #2 = 6-5-4-5 Same descrip.  
NWU Background reading 6 ppm

BORING 121  
 PAGE 1 of 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: AWRP Bethpage

BORING NO. 121

PROJECT NO.: 3281

DATE: 8-27-91

DRILLER: Joe Miranda - AOT

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: R. Tatarcity

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. OR RUN NO.	DEPTH (ft) OR RUN NO.	BOWS OR ROD (%)	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY (CHANGE OR SCREENED INTERVAL)	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
				Mudstone		lt br	coarse sand gravel to .75"	
	26							
	28							
	30							H2O in hole 30 ppm
	32							
	34						lt br: coarse sand gravel to 1.5"	
	36							
	38							
	40	6 4				red br	coarse sand gravel to 1.5"	H2O 250 ppm in hole
2"		7 9	12" / 24"			red br	12" fine sand no gravel	moist at 41 ft H2O 94 ppm spoon
	42	9 11						
2"		13 19	12" / 24"		wt to red br	12" fine sand no gravel	H2O 70 ppm spoon	
	44	11 12			wt to red br	6" fine sand no gravel		
2"		13 10	12" / 24"		yellow br	6" fine sand no gravel	H2O 10 ppm spoon	
	46	13 21			yellow br	6" fine sand no gravel		
2"		31 30	18" / 24"		lt yell. br	12" fine sand no gravel	H2O 12 ppm spoon	
	48	17 19						
2"		13 17	21" / 24"		lt yell. br	21" fine sand saturated	H2O 8 ppm spoon	

REMARKS At 50 ft - no water in auger stem

BORING 121

± 46' final water level

PAGE 2 : 3

PROJECT: 121 RP Bethpage BORING NO.: 121  
 PROJECT NO.: 3281 DATE: 8-27-91 DRILLER: Joe Miranda-AOT  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: P. Pitarck  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (FEET) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, FEET) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCC HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	50			L.S.P.		lyell br	Fine sand, no gravel	sat. water.
	52							
	54							
	56							Sample @ 1653

REMARKS water level 49' total depth 54 ft. at 1620  
at 1640. water level 46 ft total depth 54 ft.

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETHPAGE 8-26-91 KCK BORING NO.: SB 119  
 PROJECT NO.: 3281 DATE: 9-25-91 DRILLER: RICHARD BEAMAN (A.D.T.)  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: D. Yost  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (FE) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (DEPTH) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	0.0					BROWN	SAND SOME GRAVEL	
	2.0							
	4.0	3						
S-1 1140		3	15 2.0		LOOSE	TAN-BROWN	SAND SOME GRAVEL	SW SAND IS MEDIUM-COARSE GRAINED SUB ROUNDED FINE GRAVEL S-1 3-5' & SENT TO LAB DAMP-MOIST
	6.0							SPDN - HARD CUTTINGS SPDN - 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					SAND IS FINE-COARSE GRAINED SAND IS SUB ROUNDED	
S-2 1700		20	2.0 2.0		DENSE	TAN-LT BROWN	SAND AND GRAVEL	SW S-2 19-21 MOIST 10 PPM-HALL & SENT TO LAB
	22.0							
	24.0							

REMARKS MOBILE B57 BIG 140 LB HAMMER OVER 30 INCH DROP FOR  
SPLIT SPDN SAMPLES.

BORING SB 119

PAGE 1 OF 2

**BORING LOG**

**NUS CORPORATION**

PROJECT: BETH PAGE BORING NO.: SB 119  
 PROJECT NO.: 3281 DATE: 8-26-91 DRILLER: RICHARD BEAUMAN (LAD)  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: D. YOST  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 5" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	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 11				ORANGE-RED	FINE - COARSE SAND - SOME SUB ROUNDED GRAVEL	SW 5-3 39-41 MOST SATURATED
S-3 1220		9 7	1.5 2.0			MEDIUM DENSE BROWN-TAN	TR SILT	5 PPM-HNU GOK BOTTOM 2" SATURATED
	42.0	8 10	2.0 2.0	42.0		GRAY	CLAY - TR SILT, FINE SAND	MH
S-4 1225		8 10	2.0 2.0				V. FINE FLAKES IN SAND	S-4 41-43 MOST
	44.0			44.0		TAN-ORANGE-RED	FINE TO MED SAND TR SILT	SW 4 PPM-HNU
		7 8						
S-5 1236	46.0	13 14	1.5 2.0			TAN-ORANGE-RED	F-MED SAND TR SILT	SW 5-5 44-46 MOST SATURATED
		11						5 PPM-HNU SAND IS MOTTLED INSIDE
S-6 1245	48.0	18 20	2.0 2.0	49.0		TAN-ORANGE-RED	FINE-MEDIUM SAND TR SILT	SW 5-6 46-48 SATURATED
								HU-NA
	50.0						BOTM 49.0	NIGEL SINKS TO 50'

REMARKS 2-3" I.D. SPOONS USED JARS LOT # 05169106 P&Z  
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: REX PAGE BORING NO.: SB 115  
 PROJECT NO.: 3281 DATE: 8-27-91 DRILLER: RICH BEAUMAN (A.O.F.)  
 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) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			SOUNDNESS CONCISES	REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	0.0			0-5		BLACK	HUMIC MATERIAL + ROCK FILL		0.5' THICK
	2.0					BROWN	SAND SOME GRAVEL		
	4.0	8 16					GRAVEL IS SUBROUNDED < 1" SAND: FINE-COARSE		
S-1 SR40		26 28	1.2 2.0		DENSE	BROWN	SAND AND GRAVEL	SW	S-1-2-5' + SENT TO LAB DAMP 3 PPM-H <sub>2</sub> O
	6.0								
	8.0								
	10.0						SAND BECOMES LT BROWN IN COLOR		
	12.0								
	14.0								
	16.0								
	18.0								
	20.0	12 18							
S-2 O900		25 21	2.0 2.0		DENSE	TALSH BRN	FINE TO COARSE SAND AND GRAVEL TR/SITE	SW	S-2 19-21' approx BLK FINES (TRACE) MOIST * SENT TO LAB
	22.0								
	24.0						SAND GRADUALLY TO REDDISH BROWN		

REMARKS MOBILE R 57 RIG. 140 LB HAMMER DROPPED 30" FOR SPLIT SPIN SAMPLES. 2" S.D. SPANS FOR SAMPLES SENT TO LAB. 2" SPANS FOR LITHOLOGICAL SAMPLES. 3/4" INCH I.D. HOLLOW STEM AUGERS

BORING SB 115

PAGE 1 OF 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: EEIHPAGG BORING NO.: SB 115  
 PROJECT NO.: 3381 DATE: 8-27-91 DRILLER: RICK BEAMAN (ACT)  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: C. 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		B O R E H O L E C O N D I T I O N S	REMARKS	
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR			
	26.0			38.0?		REDDISH BROWN	SW	MOIST	
							SAND AND GRAVELS		
							SAND FINE-COARSE GRAVELS - SUBROUND 4' (SAMPLE)		
	28.0								
	30.0								
	32.0								
	34.0								
	36.0								
	38.0							OUT OF GRAVEL AT 38'?	
	40.0	24 29				RED-BROWN		MOIST - SATURATED	
S-3 0939		40 48	1.8 2.0			TAN % DENSE WHITE	SW	S-3 39-41 3ppm H <sub>2</sub> O INTERLAYERED RED, ORN, TAN W/ SAND GETS LAMINATION'S OF WHITE ASP - TAN MK	
		30							
	42.0	32				ORANGE-BROWN	SM	S-4 41-43 1ppm H <sub>2</sub> O	
S-4 0934		48 49	1.8 2.0					MOIST - SATURATED 41-42' SILTY CLAY IN PLANK POSSIBLE CONTAMINATION	
		46 46				RED-BROWN			
	44.0								
		23 27	1.6 2.0			RED-BROWN RELAY BROWN		S-5 44-46 SATURATED 1-4ppm H <sub>2</sub> O	
S-5 0947	46.0						ML/SC		
		4				BROWN		SAND IS FINE	
	48.0								
		17 19				BROWN		S-6 47-49 SATURATED	
S-6 1008									
	50.0								

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING SB 115  
 PAGE 2 OF 3





**BORING LOG**

**NUS CORPORATION**

PROJECT: KWIRP Boring

BORING NO.: 113

PROJECT NO.: 3281

DATE: 8-26-91

DRILLER: Joe Miranda - AOT

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: R. Patacica / 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		REMARKS
					SOL. DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	
	0					dk br. coarse sand w/ gravel to 1"	
	2						
		13					
		17				2" gray clay	
3'	4	14	18' 24"			rd br coarse sand gravel to .75"	
		18				yellow br. 12" med to fine sand w/ gr 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					
3"	20	17	12' 24"			lt br. coarse sand gravel to .5"	HW spec 4 ppm Sample @ 1210
		21					
	22						
	24						

REMARKS HW background = 3ppm

BORING 113

PAGE 1 : 2

**BORING LOG**

**NUS CORPORATION**

PROJECT: DWIRP Bethpage BORING NO.: 113  
 PROJECT NO.: 3281 DATE: 8-26-91 DRILLER: Joe Miranda ADT  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: R. Potarcik / F. Ramser  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS '6" OR 100 (N)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
						br	coarse sand gravel < .75"	
	26							
	28							
	30							
	32							
	34							
	36					br	Fine to med sand no gravel	
	38							
	40	14 17				red br	Fine to med sand	
2"		17 13	14" / 24"			wt	2" fine sand	
	42	8 11				lt br	12" coarse sand	water saturated 5ppm spm
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 HAD.
		2 3						
2"	48	2 2	12" / 24"			lt br	med & fine sand	mica sample

REMARKS HAD Background 3ppm  
water level = total depth 48ft

BORING 113  
 PAGE 2 : 2

**BORING LOG**

**NUS CORPORATION**

PROJECT: RETYPAGE BORING NO.: SB 112  
 PROJECT NO.: 3281 DATE: 8-26-91 DRILLER: RICH BEAUMAN (BOT)  
 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			BUREAU OF SOILS	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	0.0					BLACK (BRN)	5' BLACK HUMUS MATERIAL FINE TO COARSE SAND w/FGRAVEL	SW	
	2.0								
	4.0	11							
S-1		15	2.0			DENSE BRN	FINE TO COARSE SAND w/ SUBANG. GRAVEL (HEAVY AND OTE GRAVEL)	SW	S-1 3-5' 2PPM HUM
	6.0	14	2.0						
	8.0								
	10.0								
	12.0								
	14.0								
	16.0								
	18.0								
	20.0	9							
		19	2.0			DENSE BRN	FINE TO COARSE SAND AND GRAVEL WELL BOUND W/ TO SO DANGRE	SW	S-2 19-21' 150PPM HUM. MOIST.
	22.0	23	2.0						
	24.0								
							As Above		

REMARKS <sup>ID.</sup> 3/4" HSA 140 LB HAMMER DROPPED 30 INCHES  
 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: BETH PAGE BORING NO.: SB 112  
 PROJECT NO.: 3281 DATE: 8-26-91 DRILLER: RICH. BEAUMAN (AOT)  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: FUR  
 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 (Down, FL) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	SOIL SAMPLE SCREENING RESULTS	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION					
	26											
	28											
	30											
	32											
	34											
	36											REDDISH ORANGE MATERIAL
	38											
	40	12 19 32 37						TAN-WHT YRED		COURSE GRAIN SAND LEVEL INTERLAMED RED FINE SAND TO SILT	SM	MOIST: 1PPHVV
	42											
	44	15 20 29 26	1.5 2.0					DENSE TAN		MEDIUM SAND SIZE TR/SILT	SP	MOIST TO SATURATED HIT WATER @ 44' 1PPHVV
	46	11 18 36 22	1.8 2.0					DENSE ORANGE TAN		VARIATED SAND/MED TO FINE GRIN SAND TR/SILT	SP	SATURATED, TR OF HIC & LINES TR OF BLACK MATERIAL 1PPHVV
	48											
	50											A's Above

REMARKS TD 50' FUR, 51'  
SCREEN AT 41' TO 51'

BORING 12SB  
 PAGE 2 :: 2

PROJECT: AWRP Bethpage

BORING NO.: 111

PROJECT NO.: 3281

DATE: 8-26-91

DRILLER: Joe Miranda ADT

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: R. Patacity

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (ft)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		REMARKS
					SOL GENEITY CONSISTENCY OR ROCK HARDNESS	COLOR	
	0					dk br 4" asphalt 6" gravel 2" organic sandy coarse	
	2					dk br coarse sand organic dk br 4" coarse sand organic br coarse sand	
		7 17					
3"	4	21 12	21" 24"			Br coarse sand	Sample #1555
	6						
	8						
	10					Br coarse sand gravel to 25"	
	12						HMX 6ppm in hole
	14						
	16						
	18						
		6 13					
3"	20	11 17	15" 24"			Br 6" coarse sand red Br 12" coarse sand gravel < 1" Br coarse sand gravel < 1"	Sample #1630
	22						
	24						

REMARKS HMX 3ppm background

BORING 111  
PAGE 1 of 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: AWI RP Beth page BORING NO: 111  
 PROJECT NO: 3281 DATE: 8-26-91 DRILLER: Joe Miranda AOT  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: R. Patorczyk  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 5" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY (CHANGE OR SCREENED INTERVAL)	MATERIAL DESCRIPTION		REMARKS	
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR		
				Lithology: Sand		Br coarse sand gravel to 1"		
	26							
	28							
	30							
	32					Br med to fine sand		
	34					red br med to coarse sand		H <sub>2</sub> O 6ppm
	36							
	38	16				lt to 12 br 4" fine sand		
2"		17	16' 24"			lt to rd 5" fine to med sand		rust
	40	5				red br 8" fine sand		
2"		11	18' 24"		lt to 15 br 10" fine sand		spoon saturated	
	42				red br coarse sand gravel to 2"			
	44							
	46						45.5 FE Final water level	
	48							

REMARKS At water level 47'10" total depth 48'5" - drilled 5 more feet

BORING 111

PAGE 2 of 3

PROJECT: NWIRP Bethpage

BORING NO: 111

PROJECT NO.: 3281

DATE: 8-25-91

DRILLER: Joe Miranda - ADT

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: R. Ataruck

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (FEET) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, Ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			S O U N D S P E C I E S	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	50					red br	coarse sand gravel to 2"		
	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: MWRP Bethpage

BORING NO.: 110

PROJECT NO.: 3281

DATE: 8-27-91

DRILLER: Joe Miranda - ADT

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: R. Patare City

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. S 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			REMARKS
					SOL. DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	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				Br	med to coarse sand gravel < 75"	Sample @ 1735
	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

PROJECT: NWIRP Bethpage

BORING NO: 110

PROJECT NO.: 3281

DATE: 8-27-91

DRILLER: Joe Miranda - ADT

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: R. Fortare, Esq.

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		REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	
	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 16 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 16 br. 12" fine sand	
	44	7 12				wt to 16 br. 12" fine sand	
2"		34 30	18"	24"		6' fine sand w/gray clay	
	46					wt to 16 br. Fine sand	
	48						water at 48 ft.
	50						sample @ 1955

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING 110  
 PAGE 2 : 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: MWRP Bethpage BORING NO.: 110  
 PROJECT NO.: 3281 DATE: 8-27-91 DRILLER: Joe Miranda-ADT  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: P. Blumenthal  
 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			S O R O K U S R E C O N S E S S	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
						Wt to 16 Br	fine sand		
	52								
									total well depth 53'
	54								
	56								

REMARKS Total well depth 53 ft.

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BORING 110  
 PAGE 3 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: NWRP Bethpage

BORING NO: 104

PROJECT NO.: 3281

DATE: 8-27-91

DRILLER: Joe Miranda - ADT

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: R. Petarcity

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD NO.	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	0			Lithology Change Interval		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							
3"	20	19 5 11 15	18' 24"		br		coarse sand gravel <.75"	Sample @ 0750
	22							
	24							

REMARKS HWD Background 6 ppm

BORING 104  
PAGE 1 : 3

PROJECT: MWRP Bethpage BORING NO.: 104  
 PROJECT NO.: 3281 DATE: 8-27-91 DRILLER: Joe Miranda - ADT  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: R. Ratority  
 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			REMARKS	
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
				LITHOLOGY		Br	coarse sand gravel < .75"		
	26								
	28								
	30								
	32								
	34								
	36								
	38	10 12						moist @ 39'	
2'		25 29	12" / 24"			wt to 1 lb br.		fine sand no gravel	no elev H <sub>2</sub> O
	40	39 40							
2'		41 52	12" / 24"			wt to 1 lb br		fine sand no gravel	H <sub>2</sub> O 8 ppm (Flash)
	42					wt to 1 lb 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: LDWIRP Bethpage BORING NO: 104  
 PROJECT NO.: 3281 DATE: 8-27-91 DRILLER: Joe Miranda - ADT  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: R. Atarcity  
 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, FEET) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		CORRECTIONS	REMARKS
					SOL. DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR		
	<u>50</u>			FINE		<u>wt to 1 lb:</u>		
						<u>red to 1 lb:</u>		
	<u>52</u>					<u>coarse to red sand</u>		
						<u>↓</u>		<u>Sample @ 0915</u>
	<u>54</u>							

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. Yosi  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 8" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			B R O U S E C O N S E S	REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	0.0								
	2.0					BROWN	2" THICK SILT GRAVEL FILL SAND AND GRAVELS		
	4.0	5 14					GRAVEL FINE SUBGRAINED SAND IS FINE-MEDIUM		
S-1 1430		13 12	1.5 2.0		MEDIUM DENSE	BROWN	SAND AND GRAVELS	SW	SI 3-5 # SENT TO DAMP LAB 0.4 ppm-HMU
	6.0								
	8.0								GRAVEL IS MADE UP OF QUARTZ AND CHERT 6.31 INCH
	10.0						SAND BECOMES REDDISH BROWN		
	12.0								
	14.0								
	16.0								
	18.0								
	20.0	9 28					SAND IS FINE-COARSE GRAINED GRAVEL IS FINE AND SUBGRAINED	SW	GRAVEL < 3/4 INCH IN DIAMETER CHEST-LS TIGHT
S-2 1458		25 23	2.0 2.0		DENSE	REDDISH BROWN	SAND AND GRAVELS		S-2 19-21 # SENT TO DAMP-MOIST LAB 1.4 ppm-HMU
	22.0								
	24.0								

REMARKS MOBILE B 57 R.G. 140 LB HAMMER DROPPED 30 INCHES FOR  
SPLIT SPIN SAMPLES. 3" I.D. SPLIT SPONS FOR SAMPLES TO LAB

BORING SB103

PAGE 1 : 2

**BORING LOG**

**NUS CORPORATION**

PROJECT: ..... BORING NO.: SB 103  
 PROJECT NO.: 3281 ..... DATE: 8-26-91 ..... DRILLER: RICHARD BEAUMAN (A.D.T.)  
 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 (N)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, Ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		S O I L R E C O R D I N G S E R I E S	REMARKS	
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR			
	26.0					Brown	SAND AND GRAVELS	SW	AS ABOVE
	28.0						GRAVEL AMT DECREASE AND SIZE OF GRAVEL DECREASES		
	30.0								
	32.0								
	34.0								
		9					SAND - FINE - COARSE GRAVEL - FINE SUBROUNDED < 1/2" MIN		
S-3 1517	36.0	13 11	1.5 2.0		MEDIUM DENSE	TAN-BROWN	SAND TR GRAVEL	SW	S-3 34-36 MCI S+ 0.5 PPM - HNU
	38.0								
	40.0	7 19					SAND FINE-MEDIUM GRAINED GRAVEL - FINE SUBROUNDED < 1/2"		1 INCH REDDISH BROWN GILTY CLAY LENS @ 40.5'
S-4 1530		30 24	1.8 2.0		MEDIUM DENSE	TAN-BROWN	SAND TR GRAVEL	SW	S-4 39-41 MCI ST - U. MCI ST
	42.0	8 15							
S-5 1545	44.0	23 27	2.0 2.0	44.0	DENSE	WHITE GRAY	FINE - COARSE SAND TR V. FINE GRAIN 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 SPON TAKEN - WAST SANDS
	56.0						BOTM 49.0'		

REMARKS WATER AT 43', OILY SHEEN ON THE WATER  
 2-3" SPONS 4-2" SPONS 49' OF DRILLING  
 SCREEN SET 38-48'

BORING SB 103  
 PAGE 2 : 2







NUS CORPORATION AND SUBSIDIARIES #3 CHAIN OF CUSTODY RECORD

PROJECT NO.: 3281		SITE NAME: BETHPAGE NWIRP		NO. OF CON-TAINERS	VOLATILES	REMARKS
SAMPLERS (SIGNATURE): <i>Robt. J. ...</i>		STATION LOCATION				
STATION NO.	DATE	TIME	COMP	GRAB		
103	8/24/91	1654		X	2	TEMP. W4445
111		1745		X	2	
112		1947		X	2	
114	8/23/91	0815		X	2	
115		1445		X	2	
338		1445		X	2	
334		1430		X	2	↓

RELINQUISHED BY (SIGNATURE): <i>Tony ...</i>	DATE/TIME: 8/23/91 1655	RECEIVED BY (SIGNATURE): <i>Robt. J. ...</i>	DATE/TIME:	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	DATE/TIME:	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME:	REMARKS: Hmo Delivered to H2M	DATE/TIME:	RECEIVED BY (SIGNATURE):

NUS 640 REVISED 06/90

NUS CORPORATION AND SUBSIDIARIES # 4 CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:		STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	TCL ANALYSES			REMARKS
	3281	BETHPAGE NWIAP								TCL METALS	TCL BVA	TCL GMLDS	
			02	8/22/91	-		X	BP-SB-02-TB	2				AQUEOUS
			11203	8/26/91	1745		X	BP-SB-1-11203	5	1	1		SOILS
			11219	↓	1815		X	BP-SB-1-11219	3				
			11419	8/27/91	0750		X	BP-SB-1-11419 (72) 9/3/91	3				
			11419	↓	0750		X	BP-SB-1-11419 (72) 9/3/91	3				
			11503	↓	0840		X	BP-SB-1-11503	5	1	1		
			11519	↓	0900		X	BP-SB-1-11519	3				
			SD-2-01	↓	1000		X	BP-SD-2-01	5	1	1		SEDIMENTS
			SD-2-01	↓	1000		X	BP-SD-2-01-D	5	1	1		
			SD-2-02	↓	1030		X	BP-SD-2-02	5	1	1		
			33803	↓	1020		X	BP-SB-3-33803	5	1	1		SOILS
			33819	↓	1050		X	BP-SB-3-33819	3				
			33403	↓	1215		X	BP-SB-3-33403	5	1	1		
			33419	↓	1235		X	BP-SB-3-33419	3				
RELINQUISHED BY (SIGNATURE):				DATE / TIME:		RECEIVED BY (SIGNATURE):			DATE / TIME:		RECEIVED BY (SIGNATURE):		
Tony Agard				8/27/91/1740		FEDERAL EXPRESS							
RELINQUISHED BY (SIGNATURE):				DATE / TIME:		RECEIVED BY (SIGNATURE):			DATE / TIME:		RECEIVED BY (SIGNATURE):		
RELINQUISHED BY (SIGNATURE):				DATE / TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE):			DATE / TIME:		REMARKS: SHINGO TO General Physics AG# 9991555711		





NUS CORPORATION AND SUBSIDIARIES #7 CHAIN OF CUSTODY RECORD

PROJECT NO.: 3281		SITE NAME: BETHPAGE NW 1 RP				NO. OF COM- TAINERS	REMARKS
SAMPLERS (SIGNATURE): B. Johnson		DATE	TIME	COMP	GRAB		
STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	VOLATILES	REMARKS
121	8/27/91	1653		X	BP-G-1-121	2	TEMPORARY WELLS
329	↓	1920		X	BP-G-3-329	2	
110	↓	1955		X	BP-G-1-110	2	
304	8/28/91	1042		X	BP-G-3-304	2	
318	↓	1046		X	BP-G-3-318	2	
316	↓	1345		X	BP-G-3-316	2	
123	↓	1415		X	BP-G-1-123	2	
RELINQUISHED BY (SIGNATURE): T. J. ...		DATE/TIME: 8/28/91 1700	RECEIVED BY (SIGNATURE): P. H. ...	RELINQUISHED BY (SIGNATURE):	RECEIVED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):		DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	RECEIVED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):		DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	RECEIVED BY (SIGNATURE):	DATE/TIME:	REMARKS: HAND DELIVERED TO N2M

NYS 648 REVISED 06/90

NUS CORPORATION AND SUBSIDIARIES # 8 CHAIN OF CUSTODY RECORD

PROJECT NO.: 3281		SITE NAME: BETHPAGE		STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	ANALYTICALS				REMARKS
SAMPLERS (SIGNATURE): Tony [Signature]		TCL VOLATILES									TCL METALS	TCL BVA (MNI)	TCL CHLORIDES	TCL BVA PESTICIDES / PCBs	
03	8/21/91	-		X	BP-SB-03-78	2								AQUEOUS	
32903	8/27/91	1659		X	BP-SB-3-32903	5				1	1			SOILS (ALSO DO PESTICIDES / PCBs)	
11003	↓	1735		X	BP-SB-1-11003-M15	5				1	1			(THIS SAMPLE GETS PATRIUS SPURS / PATRIUS SPUR DUST)	
31803	8/28/91	0820		X	BP-SB-3-31803	5				1	1				
31819		0840		X	BP-SB-3-31819	3									
30403		0825		X	BP-SB-3-30403	5				1	1				
30419		0900		X	BP-SB-3-30419	3									
12303		1206		X	BP-SB-1-12303	5				1	1				
12319		1237		X	BP-SB-1-12303 <sup>19</sup>	3									
31603		1210		X	BP-SB-3-31603	5				1	1			(ALSO DO PESTICIDES / PCBs)	
31619	↓	1225		X	BP-SB-3-31619	3									

RELINQUISHED BY (SIGNATURE): Tony [Signature]	DATE/TIME: 1830 8/29/91	RECEIVED BY (SIGNATURE): FEDERAL EXPRESS	DATE/TIME: 1830 8/29/91	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	DATE/TIME:
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	DATE/TIME:	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	DATE/TIME:
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME:	REMARKS: SHIPPED TO GENERAL PHYSICS AB # 9991555700			



NUS CORPORATION AND SUBSIDIARIES

# 9

CHAIN OF CUSTODY RECORD

PROJECT NO:	SITE NAME:				STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	PH & TX	BULK DENSITY	GRAIN SIZE	MOSISTE COLLECT	REMARKS
	3281	BETHPAGE														
SAMPLERS (SIGNATURE): <i>Rob Porter</i>																
11003	8/24/91	1735		X	BP-SB-1-11003	4										ENG. SAMPLES
31603	8/28/91	1210		X	BP-SB-3-31603	5										↓
RELINQUISHED BY (SIGNATURE): <i>Tony Lopez</i>				RECEIVED BY (SIGNATURE):				RELINQUISHED BY (SIGNATURE):				RECEIVED BY (SIGNATURE):				
DATE / TIME: 08/29/91 1830				DATE / TIME: FEDERAL EXPRESS				DATE / TIME: RECEIVED BY (SIGNATURE):				DATE / TIME: RECEIVED BY (SIGNATURE):				
RELINQUISHED BY (SIGNATURE):				RECEIVED BY (SIGNATURE):				RELINQUISHED BY (SIGNATURE):				RECEIVED BY (SIGNATURE):				
RELINQUISHED BY (SIGNATURE):				RECEIVED FOR LABORATORY BY (SIGNATURE):				DATE / TIME: RECEIVED BY (SIGNATURE):				REMARKS: SHIPPED TO NUS LAB				
RELINQUISHED BY (SIGNATURE):				DATE / TIME: RECEIVED BY (SIGNATURE):				DATE / TIME: RECEIVED BY (SIGNATURE):				REMARKS: AB# 9991555091				

NUS 548 REVISED 08/90

# #10 CHAIN OF CUSTODY RECORD

PROJECT NO.:		SITE NAME:	NO. OF CON-TAINERS		VOLATILES	REMARKS
3281		BETHPAGE NWIWP				
SAMPLERS (SIGNATURE):			STATION LOCATION			
<i>Richard W. K...</i>			<i>Nassau Blvd. 220-227</i>			
STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	REMARKS
229	8/28/91	1645		X	BP-G-2-229	TEMPORARY WELL
205	↓	1805		X	BP-G-2-205	
219	8/29/91	0908		X	BP-G-2-219	
204	↓	1015		X	BP-G-2-204	
218	↓	1200		X	BP-G-2-218	
202	↓	1318		X	BP-G-2-202	
215	↓	1425		X	BP-G-2-215	
225	↓	1524		X	BP-G-2-225	
227	↓	1740		X	BP-G-2-227	

RELINQUISHED BY (SIGNATURE): <i>T...</i>		RECEIVED BY (SIGNATURE): <i>Richard...</i>	
DATE/TIME:	DATE/TIME:	DATE/TIME:	DATE/TIME:
	8/29/1705		
RELINQUISHED BY (SIGNATURE):		RECEIVED BY (SIGNATURE):	
DATE/TIME:		DATE/TIME:	
RELINQUISHED BY (SIGNATURE):		RECEIVED BY (SIGNATURE):	
DATE/TIME:		DATE/TIME:	

REMARKS: HAND DELIVERED to H2M

NYS 640 REVISED 0898





# NUS CORPORATION AND SUBSIDIARIES

# 13 CHAIN OF CUSTODY RECORD

<b>PROJECT NO.:</b> 3261	<b>SITE NAME:</b> BETHPAGE NWIRP	<b>NO. OF CON. TAINERS</b> 7																								
<b>SAMPLERS (SIGNATURE):</b> <i>Eric H. ...</i>																										
<b>STATION NO.</b>	<b>DATE</b>	<b>TIME</b>	<b>COMP</b>	<b>GRAB</b>	<b>STATION LOCATION</b>	<b>PH &amp; TUC</b>	<b>BUK DENSITY</b>	<b>GRAIN SIZE</b>	<b>MOISTURE CONTENT</b>	<b>REMARKS</b>																
32603	8/30/03	0820		X	BP-58-3-32603	1	2	2	2	ENG. SAMPLE																

RELINQUISHED BY (SIGNATURE):		DATE / TIME:	RECEIVED BY (SIGNATURE):	DATE / TIME:	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
<i>[Signature]</i>		8/30/03	FEDERAL EXPRESS				
RELINQUISHED BY (SIGNATURE):		DATE / TIME:	RECEIVED BY (SIGNATURE):	DATE / TIME:	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):		DATE / TIME:	RECEIVED BY (SIGNATURE):	DATE / TIME:	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	DATE / TIME:	AB# 9991555405

NUS 440 REVISED 03/90



NUS CORPORATION AND SUBSIDIARIES

# 15 CHAIN OF CUSTODY RECORD

PROJECT NO.: 3281		SITE NAME: BETHPAGE NWIAC		STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON. TAINERS	ANALYSIS				REMARKS
SAMPLERS (SIGNATURE): <i>[Signature]</i>		DATE/TIME									TEL METALS (ML)	TEL METALS (GR)	TEL METALS (PB)	TEL METALS (PC)	
05	8/25/91	-		X	BP-SB-05-TB	2								AQUEOUS	
30703	8/29/91	1628		X	BP-SB-3-30703	5								SOILS	
30703	8/29/91	1700		X	BP-SB-3-30719	3									
20603	8/29/91	1813		X	BP-SB-2-20603	3									
20603	8/29/91	1913		X	BP-SB-2-20603-D	5									
21703	8/29/91	1837		X	BP-SB-2-21703	5									
31403	8/30/91	0820		X	BP-SB-3-31403	5									
32803	8/30/91	0820		X	BP-SB-3-32803-MS	5								DO → ALSO ANALYZE FOR MS/MSD (Pesticide / PCBs)	
32819	8/30/91	0830		X	BP-SB-3-32819	3									
20903	8/30/91	1145		X	BP-SB-2-20903	5									
03	8/30/91	1200		X	BP-SB-03-RB	8								AQUEOUS - VOLATILE PHOS. / HCl MSD - ANALYZE FOR PHOSPHATE / PHOSPHORUS	

RELINQUISHED BY (SIGNATURE): <i>[Signature]</i>	DATE/TIME: 8/30/91 1630	RECEIVED BY (SIGNATURE):	DATE/TIME:
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	DATE/TIME:
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME:

REMARKS: SHIPPED TO GENERAL PHYSICS  
AG# 9991555416

NUS 649 REVISED 6/90

NUS CORPORATION AND SUBSIDIARIES # 16 CHAIN OF CUSTODY RECORD

PROJECT NO.: 3281		SITE NAME: BETHPAGE NWIRP		STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	ANALYSIS						REMARKS
SAMPLERS (SIGNATURE): Tony Spade		SAMPLERS (SIGNATURE):									TCL VOLATILES	TCL ONLY BNA	TCL METALS & BNA CYANIDES	TCL PCBs & BNA PESTICIDES	TCL METALS & BNA PESTICIDES	TCL PCBs & BNA PESTICIDES	
01	08/30/91	-		X	BP-SS-01-7B	2				2						AQUEOUS	
SS01	09/21/91	0820		X	BP-SS-1-0100	5				5	1					SOIL SAMPLES	
SS02	0840			X	BP-SS-1-0200	5				5	1	1				(DU REST./PCBS)	
SS03	0930			X	BP-SS-1-0300	5				5	1	1					
SS03	0930			X	BP-SS-1-0300-D	3				3							
SS04	0955			X	BP-SS-1-0400	5				5	1	1					
SS05	1015			X	BP-SS-1-0500	5				5	1	1					
SS06	1030			X	BP-SS-1-0600	5				5	1	1					
SS25	1100			X	BP-SS-1-2500-MS	6				6	1	2				(30 SAMPLES) DO MATRIX SPIKES Metric Spike Dye.	
01	1415			X	BP-SS-01-FB	12				12		8	1			AQUEOUS WAS ANAL. W/HCI	
01	1425			X	BP-SS-01-RB	12				12		8	1			↓	
RELINQUISHED BY (SIGNATURE): Tony Spade		DATE / TIME: 09/09/91 1730		RECEIVED BY (SIGNATURE): FEDERAL EXPRES		DATE / TIME:		RELINQUISHED BY (SIGNATURE):		DATE / TIME:		RECEIVED BY (SIGNATURE):		RELINQUISHED BY (SIGNATURE):		DATE / TIME:	
RELINQUISHED BY (SIGNATURE):		DATE / TIME:		RECEIVED BY (SIGNATURE):		DATE / TIME:		RELINQUISHED BY (SIGNATURE):		DATE / TIME:		RECEIVED BY (SIGNATURE):		RELINQUISHED BY (SIGNATURE):		DATE / TIME:	
RELINQUISHED BY (SIGNATURE):		DATE / TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE):		DATE / TIME:		RECEIVED BY (SIGNATURE):		DATE / TIME:		RECEIVED BY (SIGNATURE):		RELINQUISHED BY (SIGNATURE):		DATE / TIME:	
																REMARKS: SHIPPED TO V. G. GARDNER FOR ANALYSIS GENERAL PHYSICS AS# 9991555420	



NUS CORPORATION AND SUBSIDIARIES

#17

CHAIN OF CUSTODY RECORD

PROJECT NO:		SITE NAME:		STATION LOCATION		NO. OF CON-TAINERS	TCL METHODS			REMARKS
3281		BETHPAGE NWIRP					TCL GRAB	TCL METALS	TCL CYLINDERS	
STATION NO.	DATE	TIME	COMP	GRAB						
02	9/29/91	-		X	BP-SS-02-78	2			AQUEOUS	
SS07	9/29/91	0945		X	BP-SS-2-0700	5	1	1	SOIL SAMPLES	
SS08		0945		X	BP-SS-2-0800	5	1	1		
02		1140		X	BP-SS-02-RB	8	2	4	AQUEOUS & SOIL SAMPLES *Note: Analyze only in Aqueous & Soils. Problems are detected!! *has fresh bottles	
SS09		1200		X	BP-SS-2-0900	5	3	1	SOIL SAMPLES	
SS10		1215		X	BP-SS-2-1000	5	3	1		
SS10		1215		X	BP-SS-2-1000-D	5	3	1		
SS11		1240		X	BP-SS-2-1100	5	3	1		
SS12		1300		X	BP-SS-2-1200	5	3	1		
SS13		1315		X	BP-SS-2-1300	5	3	1		
SS14		1330		X	BP-SS-2-1400	5	3	1		
RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):		
<i>Tony Spahr</i>		9/29/1800		FEDERAL EXPRESS						
RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):		
RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE):		DATE/TIME:		REMARKS: SHIP TO GENERAL PHYSICS FOR ANALYSIS		
								AB # 9991555442		

NYS 440 REVISED 06/90

NUS CORPORATION AND SUBSIDIARIES #18 CHAIN OF CUSTODY RECORD

PROJECT NO.: 3281		SITE NAME: BETHPAGE NWIRP		STATION LOCATION	NO. OF CON. TAINERS	TCL VIALS	TCL BNA	TCL CYANIDE	TCL BNA & CYANIDE	TCL METALS	TCL BNA & METALS	TCL METALS	CYANIDE	PKTS. W/ HAZ. PKTS. W/ HAZ. QY	REMARKS
STATION NO.	DATE	TIME	COMP												
03	9/24/91	-		X	2	2									AQUEOUS
SS15	9/29/91	0750		X	5	3	1	1							SOIL SAMPLES
SS16		0815		X	5	3	1	1							
SS17		0840		X	5	3	1	1							
SS18		0855		X	5	3	1	1							
SS26		0910		X	5	3	-	1	1						
SS26		0910		X	5	3	-	1	1						↓
03	9/24/91	1200		X	8	2	4	-	1	1					AQUEOUS; ANALYZE

RELINQUISHED BY (SIGNATURE): <i>Tony Spick</i>	DATE/TIME: 9/29/91 1330	RECEIVED BY (SIGNATURE):	DATE/TIME:
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	FEDERAL EXPRESS	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME:

REMARKS: SAMPLED TO GENERAL PHYSICS FOR ANALYSIS. AB # 9991555685

PROJECT NO.: 3281 SITE NAME: BETHPAGE NWIRP

SAMPLERS (SIGNATURE): *Tom Leal*

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	REMARKS
04	9/24/11	-		X	BP-SS-04-78	2	AQUEOUS
SS19	9/21/11	1230		X	BP-SS-3-1900	5	SOIL SAMPLES
SS20		1300		X	BP-SS-3-2000	5	
SS21		1330		X	BP-SS-3-2100	5	
SS27		1400		X	BP-SS-3-2700	5	Also DO Postholes # PCAS
SS27		1400		X	BP-SS-3-2700-D	5	
SS28		1430		X	BP-SS-3-2800	5	Also DO Postholes # PCAS
04	9/24/11	1600		X	BP-SS-04-RE	8	AQUEOUS ADDITIONAL ANALYZE IF SUITABLE Problems Occur

RELINQUISHED BY (SIGNATURE): <i>Tom Leal</i>	DATE / TIME: 9/24/11	RECEIVED BY (SIGNATURE): FEDERAL EXPRESS	DATE / TIME: 9/24/11
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	DATE / TIME:
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:

REMARKS: SHIPPED TO GENERAL PHYSICS FOR ANALYSIS  
 AB# 991555674

MUS 440 REVISED 03/90

**NUS CORPORATION AND SUBSIDIARIES**

**#20**

**CHAIN OF CUSTODY RECORD**

PROJECT NO. 3281	SITE NAME: BETHPAGE NARRIP		STATION LOCATION	NO. OF CON-TAINERS	ANALYSIS TYPES								REMARKS		
	TCL	MLA			MLA ONLY	TCL	MLA	MLA + CNS	TCL	MLA	MLA + CNS	TCL		MLA	MLA + CNS
05-04	8/31/91	-	X	2											AGUEOUS
5522	9/19/91	0830	X	5											SOIL SAMPLES PO MATRIX SPICE MATRIX SPICE DUFF
5523		0900	X	5											
5524		0930	X	5											
5529		0945	X	5											also 20 POST-INDENT/RES
05	10/5	1015	X	8											AGUEOUS: NUS ANALYSIS PH
02	1130		X	12											

RELINQUISHED BY (SIGNATURE): <i>Tony Sped</i>	DATE / TIME: 9/19/91 1330	RECEIVED BY (SIGNATURE): FEDERAL EXPRESS	DATE / TIME:
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	DATE / TIME:
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:

REMARKS: SHIPPED TO GENERAL PHYSICS FOR ANALYSIS  
AG# 999555663



CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Company Name: HALL COUNTY

Project No./Client: 3281 / MOUNTAIN RAINFALL

Sampling Location: DEERWELL CREEK AND WILKINS CREEK  
Sampler: D. YOST

No.: 3285

Date	Time	Sample I.D./Description	No. of Bottles	Sample Type	ANALYSIS REQUESTED	Remarks
11/27/91	0830	HN25 DWS	2			92/LL
11/28/91	0849	HN29 DWS	2			
11/28/91	0918	RICHARD BAIN DWS	2			

COMMENTS/SPECIAL INSTRUCTIONS:  
WOULD LIKE RESULTS BY 11/27 - 11/25

If P&S System de TOLP

Date Received: \_\_\_\_\_  
Date Due: \_\_\_\_\_  
Quotation #: \_\_\_\_\_  
Purchase Order #: \_\_\_\_\_

CRUSHED BY: \_\_\_\_\_

Results To: \_\_\_\_\_

Billing Address: \_\_\_\_\_

Phone: \_\_\_\_\_ FAX: \_\_\_\_\_

Attention: \_\_\_\_\_

**TO BE COMPLETED BY CLIENT**

Seal Intact Upon Receipt by Sampling Co.:  Yes  No

Packed By: \_\_\_\_\_ Seal #: \_\_\_\_\_

Sealed For Shipping By: \_\_\_\_\_

**CUSTODY TRANSFERS**

Perfused by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

1. H. Yost Date: 11/27/91 Time: \_\_\_\_\_

2. D. Yost Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received for Laboratory: \_\_\_\_\_

**SHIPPING DETAILS - TO BE COMPLETED BY ORTEK**

Seal Intact Upon Receipt by Laboratory:  Yes  No

Method of Shipment: \_\_\_\_\_

Contents Temperature: \_\_\_\_\_ °C Rating # \_\_\_\_\_

ORTEK

Received for Laboratory: \_\_\_\_\_

**NUS CORPORATION CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281		SITE NAME: BP		NO. OF CON-TAINERS	F/ite Metals		REMARKS																	
SAMPLERS (SIGNATURE): <i>RJK/HYS</i>		D.M. Nord			Cyanoide	C-26																		
STATION NO.		DATE	TIME		COMP.	GRAB		STATION LOCATION																
1001	1249	1300		X		BP-G-HU30-S	3	1	1	1														
1002		1300		X		BP-G-HU30-S-D	3	1	1	1														
1003		1330		X		BP-G-HU30-I	3	1	1	1														
1004		1530		X		BP-SW-01	3	1	1	1														
1005		1520		X		BP-SW-02	3	1	1	1														
1006		1510		X		BP-SW-03	3	1	1	1														
1007		1515		X		BP-RB-100	3	1	1	1		Analyze Rinseate Blank												
1008		1550		X		BP-FB-100	3	1	1	1		Field Blank												
1009		1505		X		Trip Blank 100	3					Trip Blank												
<table border="0"> <tr> <td>RELINQUISHED BY (SIGNATURE):</td> <td>DATE/TIME: 12-1-91 16:30</td> <td>RECEIVED BY (SIGNATURE):</td> <td>DATE/TIME:</td> </tr> <tr> <td>RELINQUISHED BY (SIGNATURE):</td> <td>DATE/TIME:</td> <td>RECEIVED BY (SIGNATURE):</td> <td>DATE/TIME:</td> </tr> <tr> <td>RELINQUISHED BY (SIGNATURE):</td> <td>DATE/TIME:</td> <td>RECEIVED FOR LABORATORY BY (SIGNATURE):</td> <td>DATE/TIME:</td> </tr> </table>													RELINQUISHED BY (SIGNATURE):	DATE/TIME: 12-1-91 16:30	RECEIVED BY (SIGNATURE):	DATE/TIME:	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	DATE/TIME:	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME:
RELINQUISHED BY (SIGNATURE):	DATE/TIME: 12-1-91 16:30	RECEIVED BY (SIGNATURE):	DATE/TIME:																					
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	DATE/TIME:																					
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME:																					
RELINQUISHED BY (SIGNATURE): RECEIVED BY (SIGNATURE): RECEIVED BY (SIGNATURE):								RELINQUISHED BY (SIGNATURE): RECEIVED BY (SIGNATURE):		RELINQUISHED BY (SIGNATURE): RECEIVED BY (SIGNATURE):		AIRBILL # 3742090936 Federal Express												

**NUS CORPORATION**

**CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281		SITE NAME: BP		STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	LABORATORY				REMARKS
SAMPLERS (SIGNATURE): RGRBates D.A. York		RECEIVED BY (SIGNATURE):									DATE/TIME:	RECEIVED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	
1010	12-15	0853		X					BP-G-PW-15	9					
1011		0825		X					BP-G-PW-13	9					
1012		0915		X					BP-G-PW-10	9					
1013		0925		X					BP-G-PW-11	9					
1014		1355		X					BP-G-HW-25S	9					
1015		1355		X					BP-G-HW-25S-MS	9					Do MSD
1016		1355		X					BP-G-HW-25S-MSD	9					Do MSD
1017		1225		X					BP-G-HW-25-T	9					
1018		1225		X					BP-G-HW-25-I-D	9					
1019		1645		X					BP-RB-101	9					Do not sample as per AXESA
1020		1710		X					BP-TB-101	3					Fair Blank
															Shipped under Fuel Exp
RELINQUISHED BY (SIGNATURE): RGRBates											DATE/TIME: 12-5-91	RECEIVED BY (SIGNATURE):	DATE/TIME: 3742090940	RECEIVED BY (SIGNATURE):	
RELINQUISHED BY (SIGNATURE):											DATE/TIME:	RECEIVED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	
RELINQUISHED BY (SIGNATURE):											DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME:	REMARKS:	

2/5/91  
AP  
2/12/91

NUS 440 34 0484

**NUS CORPORATION**

**CHAIN OF CUSTODY RECORD**

PROJECT NO.:	SITE NAME:		STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CON-TAINERS	HANDLING				REMARKS	
	328	BETHPAGE								500	COO	PH	TOT - L		
SAMPLERS (SIGNATURE):	B. V. [Signature]														
RB 101	1225			BP-RB101	5	1	1	1	2					RINSATE BLANK	
FS 101	1226			BP-FB101	6	1	1	1	2					FIELD BLANK	
RELINQUISHED BY (SIGNATURE):	DATE/TIME:		RECEIVED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):				
[Signature]	1935 12/5/91		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]				
RELINQUISHED BY (SIGNATURE):	DATE/TIME:		RECEIVED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):				
RELINQUISHED BY (SIGNATURE):	DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE):		DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE):		DATE/TIME:		REMARKS:				
			[Signature]				[Signature]				Shipped under Fed Exp				

NUS 440 34 0448

Turbid 7747000051



**NUS CORPORATION**

**CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281 SITE NAME: BP.

SAMPLERS (SIGNATURE): R. B. S. D. Yout STATION LOCATION

STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Honesty	Reliability	TCC	TDS	TSS	COB	COO	PH	REMARKS
HU25E	12-5-91	1225		X	<del>BP</del> BPG-HU25I	9	1	1	1	1	1	1	1	1	
				Y	BP-RB-101										Rivstate-Block DAY
				Y	BP-FB-101										Field Block DAY
HU25I	12-5-91	1225		Y	BP-G-HN25 I-0	9	1	1	1	1	1	1	1	1	

RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	DATE/TIME:	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
<i>R. B. S.</i>	12-5-91 1230					

RELINQUISHED BY (SIGNATURE): RECEIVED FOR LABORATORY BY (SIGNATURE):

RELINQUISHED BY (SIGNATURE): RECEIVED BY (SIGNATURE):

RELINQUISHED BY (SIGNATURE): RECEIVED BY (SIGNATURE):

DATE/TIME: 12-5-91 1230

DATE/TIME:

DATE/TIME:

DATE/TIME:

REMARKS: Shipped under seal Ex

**NUS CORPORATION** **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281 SITE NAME: BP

SAMPLE SIGNATURE: *Robts* STATION LOCATION: D.N. Yost

STATION NO.	DATE	TIME	COMP	GRAB	NO. OF CON-TAINERS	NO. OF CONTAINERS				REMARKS	
						VOA	BVA	FT Metals	Cr+6		
1021	7/26/91	3:00		X	9	3	2	1	1	1	
1022		3:00		X	9	3	2	1	1	1	
1023		7:25		X	9	3	2	1	1	1	
1024		1:45		X	9	3	2	1	1	1	
1025		5:00		X	9	3	2	1	1	1	Analyze Rinse to Blank
1026		5:10		X	1	1					Only 1 VOA available for trip blank.

+ Shipped under Fed Exp  
airbill NO 3742090973

RELINQUISHED BY (SIGNATURE): DATE/TIME: RECEIVED BY (SIGNATURE): DATE/TIME: RECEIVED BY (SIGNATURE):

RELINQUISHED BY (SIGNATURE): DATE/TIME: RECEIVED BY (SIGNATURE): DATE/TIME: RECEIVED BY (SIGNATURE):

RELINQUISHED BY (SIGNATURE): DATE/TIME: RECEIVED FOR LABORATORY BY (SIGNATURE): DATE/TIME: REMARKS:

NYS 440 34 0484





**NUS CORPORATION** **CHAIN OF CUSTODY RECORD**

PROJECT NO.: 3281		SITE NAME: BP		NO. OF CON-TAINERS	REMARKS									
SAMPLERS (SIGNATURE): <i>[Signature]</i>		STATION LOCATION			VGA	BNA	Class. Metals	Total Metals	Cyanide	Cats				
STATION NO.	DATE	TIME	COMP.	GRAB										
1032	12-10-91	1520		X	BP-G-0565	9	3	2	1	1	1			
1033		1610		X	BP-RB105	9	3	2	1	1	1			DO NOT ANALYZE AS PER ARESA
1034		0840		X	BP-G-HN 285	9	3	2	1	1	1			
1035		0840		X	BP-G-HN 285-D	9	3	2	1	1	1			
1036		0810		X	BP-G-HN 281	9	3	2	1	1	1			
1037		1045		X	BP-G-HN 295	9	3	2	1	1	1			
1038		1145		X	BP-G-HN-291	9	3	2	1	1	1			
1039		1145		X	BP-G-HN-291-MS	9	3	2	1	1	1			do matrix spike
1040		1145		X	BP-G-HN-291-MSD	9	3	2	1	1	1			do matrix spike dupl.
1041		1830		X	BP- <del>8</del> -TB-105	3	3	2	1	1	1			Trip Blank
														Shipped via Fed Exp
														Airbill No 3742091006
														(1)
RELINQUISHED BY (SIGNATURE): <i>[Signature]</i>		DATE/TIME: 12-10-91 1900		RECEIVED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):						
RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):						
RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE):		DATE/TIME:		REMARKS:						

NUS CORPORATION

CHAIN OF CUSTODY RECORD

PROJECT NO.: 3281 SITE NAME: BP  
 SAMPLERS (SIGNATURE): [Signature] STATION LOCATION: BP-G-110295

STATION NO.	DATE	TIME	COMP.	GRAB	NO. OF CONTAINERS	HANDLING							REMARKS	
						Holdings	ALK	BOD	COD	BID	TCC	TDS		TSS
-	12-18-91	10:15		X	10	1	1	1	1	3	1	1		

Shipped via Feal  
 Exp. Bill No.  
 3742090995

RELINQUISHED BY (SIGNATURE): [Signature]	DATE/TIME: 12-18-91 10:00	RECEIVED BY (SIGNATURE):	DATE/TIME:
RELINQUISHED BY (SIGNATURE): [Signature]	DATE/TIME:	RECEIVED BY (SIGNATURE):	DATE/TIME:
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME:

NYS 440 34 0686



#2

**NUS CORPORATION**

**CHAIN OF CUSTODY RECORD**

STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CON-TAINERS	NO. OF CON-TAINERS				REMARKS		
							VOA	BNA	TOT neta/s	FTds neta/s			
4	2-12-92	1328		X	BP-G-HN-29-D	9	2	1	1	1			
5		1425		X	DP-G-HN-25-D	9	2	1	1	1			
6		1425		X	DP-G-HN-25-D-D	9	2	1	1	1			
7		1425		X	BP-G-HN-25-D-MS	9	2	1	1	1			matrix spike
8		1405		X	BP-G-HN-25-D-MSD	9	2	1	1	1			
9		1225		X	BP-G-HN-08-D (08)	9	2	1	1	1			
10		1510		X	BP-RB-501	9	2	1	1	1			Rinsole Blank
11		1515		X	BP-FD-501	9	2	1	1	1			Field Blank
12		545		X	DP-TB-501	3	3						Trip Blank

RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	DATE/TIME:
<i>[Signature]</i>	2-12-92 1900		

RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	DATE/TIME:

RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	DATE/TIME:

REMARKS: Shipped via Federal Express Airbill No. 7575908173



**BORING LOG**

**NUS CORPORATION**

PROJECT: BEIRIDGE BORING NO.: HN 24-1  
 PROJECT NO.: 3781 DATE: 10-22-71 DRILLER: MIKE (DELTA)  
 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		B O R I N G U S E C O N D I T I O N S	REMARKS
					SOL. DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR		
	0.0							
	2.0							
	4.0							
	6.0							
	8.0							
	10.0							
	12.0							
	14.0							
	16.0							
	18.0							
	20.0							
	22.0							
	24.0							

SEE LOGS  
FROM  
HN 24-5

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING HN 24-1  
 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 ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			S O R U S C O N S E S	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	20								
	260								
	360								
	320								
	340								
	360								
	380								
	400								
	420								
	440								
	460								
	480								
	500								

SEE LOGS  
FROM HN24-S

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING **HN24-I**  
 PAGE **2** : **6**

**BORING LOG**

**NUS CORPORATION**

PROJECT: NW 1/4 RETHA P&G BORING NO.: HJ24-1  
 PROJECT NO.: 3781 DATE: 10-22-91 DRILLER: MIKE P. (DELTA)  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: D. YOST  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 5' OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Optional) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			SOL. DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	SPT OR CONC. TESTS	REMARKS
	52.0								Normal	CUTTINGS CONSIST OF SAND WITH SOME GRAVELS		H.S. HEAD SPACE
	54.0											
S-1 1812	56.0	14 8 6 10	1.5 7.0		medium DENSE	REDDISH BROWN				SAND-FINE COARSE SILT TE CLAY, FINE GRAVEL	SPT 5-1 55-57 SF H.S. - 8 PPM	
	58.0											
S-2 1815	60.0	3 3 4 10	7.0 7.0		LOOSE STIFF	REDDISH BROWN				FINE-COARSE SAND - TOP 1/2 ft SILTY CLAY - REMAINING 1/2	SPT 6-2 6.7 PPM - H.S.	
	62.0											
	64.0											
	66.0											
	68.0											
	70.0											
	72.0	7 10	3.5 7.0		STIFF	BROWN				SAND - TOP 1/2 ft SILTY CLAY - REMAINING 1/2	SPT 7-3 H.S. - 7.0 SPT 7-4 H.S. - 3.4	
	74.0											

REMARKS F-16 P. 6. 3/4 INCH I.D. HSA FOR PILOT HOLE 1/4 INCH I.D. HSA FOR DRILLING WALL 1100# HAMMER DRIPPER 35" FOR 2" I.D. SPLIT SPONG SAMPLES

BORING HJ24-1  
 PAGE 3 OF 6

**BORING LOG**

**NUS CORPORATION**

PROJECT: BITA FACE ..... BORING NO.: HN 24 J  
 PROJECT NO.: 3281 ..... DATE: 10-23-91 ..... DRILLER: MIKE P. (DELTA)  
 ELEVATION: ..... FIELD GEOLOGIST: JOE / KIM MARTIN .....  
 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			SPT OR CONC. TESTS	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
	76.0								
	78.0								FC - Change
	80.0								
S-4 CR 44		8 52	2.0 70	81.0	DENSE	GRAY - Brown	CLAYEY SILTY SAND	SC	S-4 80-87 RC - CHIFF.
	82.0	72 95			W. CLEAN	TAN- Brown	MEDIUM COARSE SAND TO GRAVEL	SW	HS - 9.8 ft QUARTZITE FR - 100
	84.0								
	86.0								
	88.0								
	90.0								
0910		4 46	16			TAN Brown	TOP 1/2 FINE SAND	M	HS - 11.2 ft RC - CHIFF.
	92.0	47 44					BOTTOM 1/2 FINE SAND	SW	HS - 11.2 ft RC - CHIFF.
	94.0								
	96.0								
	98.0								
	100.0								

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING HN 24 J  
 PAGE 4 of 6

**BORING LOG**

**NUS CORPORATION**

PROJECT: NWIRP Bethpage BORING NO.: NW-24-B  
 PROJECT NO.: 3281 DATE: 9-4-91 DRILLER: Bill Jester - OTO  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: R. Atorcity  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 5" OR ROD (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		SOUNDNESS TESTS	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR		
	26					br		coarse sand gravel to 1"
	28							
	30					br		coarse sand gravel to .5"
	32							
	34							No clew NWU
						br		coarse sand gravel to .5"
	36							
	38							
	40							
	42							
	44							
	46							gravel is finer
	48							
								No clew NWU

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING NW-24-B  
 PAGE 2 of 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: NWIRP Bethpage BORING NO.: NW-24-B  
 PROJECT NO.: 3281 DATE: 9-4-91 DRILLER: Bill Jester-DTD  
 ELEVATION: \_\_\_\_\_ FIELD GEOLOGIST: R. Atarck  
 WATER LEVEL DATA: \_\_\_\_\_  
 (Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (ft.)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Down ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		SPECIAL USE CONCISE	REMARKS
					SOL. DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR		
	50					yellow br	coarse sand, gravel to .5"	
	52							
	54							
		12 15						
2"	56	27 26	24" / 24"			wt to tan	med sand. saturated	at 56' - 6 feet of water on rods open no else NWU
	58							58' bottom depth of well
	60							

REMARKS at 56 ft - 6 feet water on rods open  
with 58' auger in place water level 57'10"  
depth 58'6"

BORING NW-24  
 PAGE 3 : 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: NWIRP Bathpage

BORING NO: HW-24-A

PROJECT NO: 3781

DATE: 9-3-91

DRILLER: Bill Jester-UTO

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: Rfatarcity

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft.) OR RUN NO.	BLOWS 6" OR ROD (N)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	50	30 68						Satur. at 50' 6"
2"		50 50/4"	24" 24"		Dense	red br	coarse sand saturated very gravelly to 1"	Sp No elev. (NIX)
	52							
	54							
								No further augering - borings was abandoned due to angle. Boring location wandered approx 10' from start.

REMARKS From 40' to 50' boring angled again 1/2"  
At end of boring several large chunks of brick  
and concrete emerged.

BORING HW-24A  
PAGE 3 : 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: NWLRP Bethpage

BORING NO: HN-24-B

PROJECT NO: 3281

DATE: 9-4-91

DRILLER: Bill Jester - UTO

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: R. Atarcky

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		BUREAU OF SOILS	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR		
	0					drp to br		
						br		coarse sand w/organic.
	2							coarse sand gravel to 2"
								↓
	4							
						br		coarse sand gravel to 1"
	6							↓
	8							↓
	10					br		coarse sand gravel to 2.5"
								↓
	12							
						bi		coarse sand gravel > 2.5"
	14					br		coarse sand gravel to 1.5"
						bi		coarse sand gravel to 1"
	16							4" concrete chunk
								↓
	18							
								↓
	20					br		coarse sand gravel to 2.5"
								↓
	22					bi		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' 4" concrete chunk came up - possible rubble, or former foundation

BORING HN-24-B

PAGE 1 : 3



BORING LOG

NUS CORPORATION

PROJECT: NWRP Bet page

BORING NO: HU-24-A

PROJECT NO: 3281

DATE: 9-3-91

DRILLER: Bill Jester UTD

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: R. Rotarich

WATER LEVEL DATA: \_\_\_\_\_

(Date, Time & Conditions) \_\_\_\_\_

SAMPLE NO. & TYPE OR ROD	DEPTH (ft) OR RUN NO.	BLOWS 6" OR ROD RUN (%)	SAMPLE RECOVERY SAMPLE LENGTH	LITHOLOGY CHANGE (Depth, ft.) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	0	6						
	2"	12 14 11	12" 24"			lt br	5" coarse sand w/organic	
	2				DENSE	dk br	5" coarse sand org gravel to 1"	SP NO elev H2O
						black to dk br	coarse sand w/organic	
	4						↓	
	2'	4 16 17 30	18" 24"			br	6' coarse sand gravel to 1.5"	
					DENSE	tan	12' med to coarse sand gravel to 1.5"	SW NO elev H2O
						br	coarse sand gravel to .5"	
	8						↓	
	2'	8 20 15 16	12" 24"		DENSE	orange to tan	12" coarse sand gravel to 1.5"	SW NO elev H2O
	12					orange to tan	coarse sand gravel to 1.5"	NO elev H2O
	14						↓	
	2"	9 12 11 14	15" 24"		MEDIUM DENSE	tan to br	med to coarse sand less gravel	SW NO elev H2O
						br	coarse sand gravel to 2"	
	18						↓	
	20	7 28 30 27	6" 24"		DENSE	tan to br	coarse sand gravel to 2"	SW NO elev H2O
	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 HU-24-A

PAGE 1 of 3

**BORING LOG**

**NUS CORPORATION**

PROJECT: NWIRP Bethpage

BORING NO: HW-24-A

PROJECT NO.: 3281

DATE: 9-3-91

DRILLER: Bill Jester - UTO

ELEVATION: \_\_\_\_\_

FIELD GEOLOGIST: R. A. Tarent

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			B O R E U S E C O N S I D E R E S	REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION		
		20 15							
2"	26	20 19	12" / 24"		DENSE	tan br to dk br	coarse sand gravel to 1.5" coarse sand gravel to 1"	SP	NO elev HWL
	28								
	30	8 10 20 19	12" / 24"		DENSE	tan to wh br	med to coarse sand gravel to .75" coarse sand gravel to .75"	SP	NO elev HWL
	32								
	34								
2"	36	23 32 30 38	18" / 24"		DENSE	tan to br rd br tan	8" coarse sand gravel to .5" 2" iron stone gravel 5" coarse sand gravel to .75" coarse sand gravel to .75"	SP	some clean sand NO elev HWL
	38								
	40	10 20				tan to wh	5" med sand		moist
2"		25 33	12" / 24"		DENSE	br	5" coarse sand	SP	NO elev HWL
	42					br	coarse sand gravel to 1.5"		
	44								
2"	46	50 92 REG.	12" / 24"		DENSE	tan to br " br " br	5" coarse sand gravel to 1" 5" med sand med sand	SP	NO elev HWL
	48								

REMARKS: At approx 40' - boring angle 1 1/2". By moving rig straightened considerably

BORING HW-24-A

PAGE 2 of 3



10

**APPENDIX D**

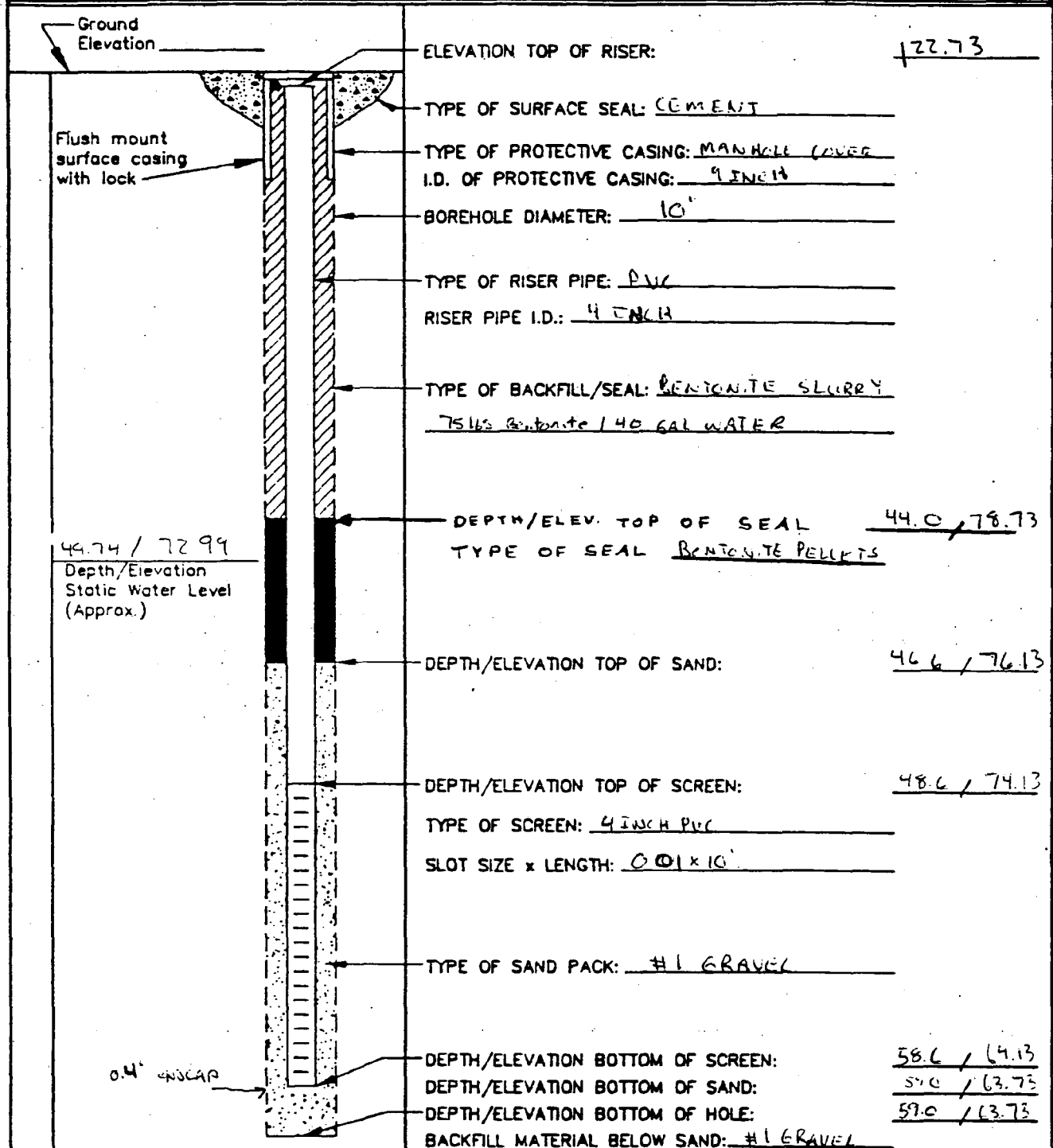
**WELL CONSTRUCTION DIAGRAM SHEETS**



WELL NO.: HU245

## OVERBURDEN MONITORING WELL SHEET

PROJECT: <u>NWIRP BETHPAGE</u>	LOCATION: <u>BETHPAGE N.Y.</u>	DRILLER: <u>BILL JESTER</u>
PROJECT NO.: <u>3281</u>	BORING: <u>HU245</u>	DRILLING METHOD: <u>HSA</u>
ELEVATION: _____	DATE: <u>9-4-91</u>	DEVELOPMENT METHOD: <u>SUBMERSIBLE PUMP</u>
FIELD GEOLOGIST: <u>FRED W RAMSER</u>		



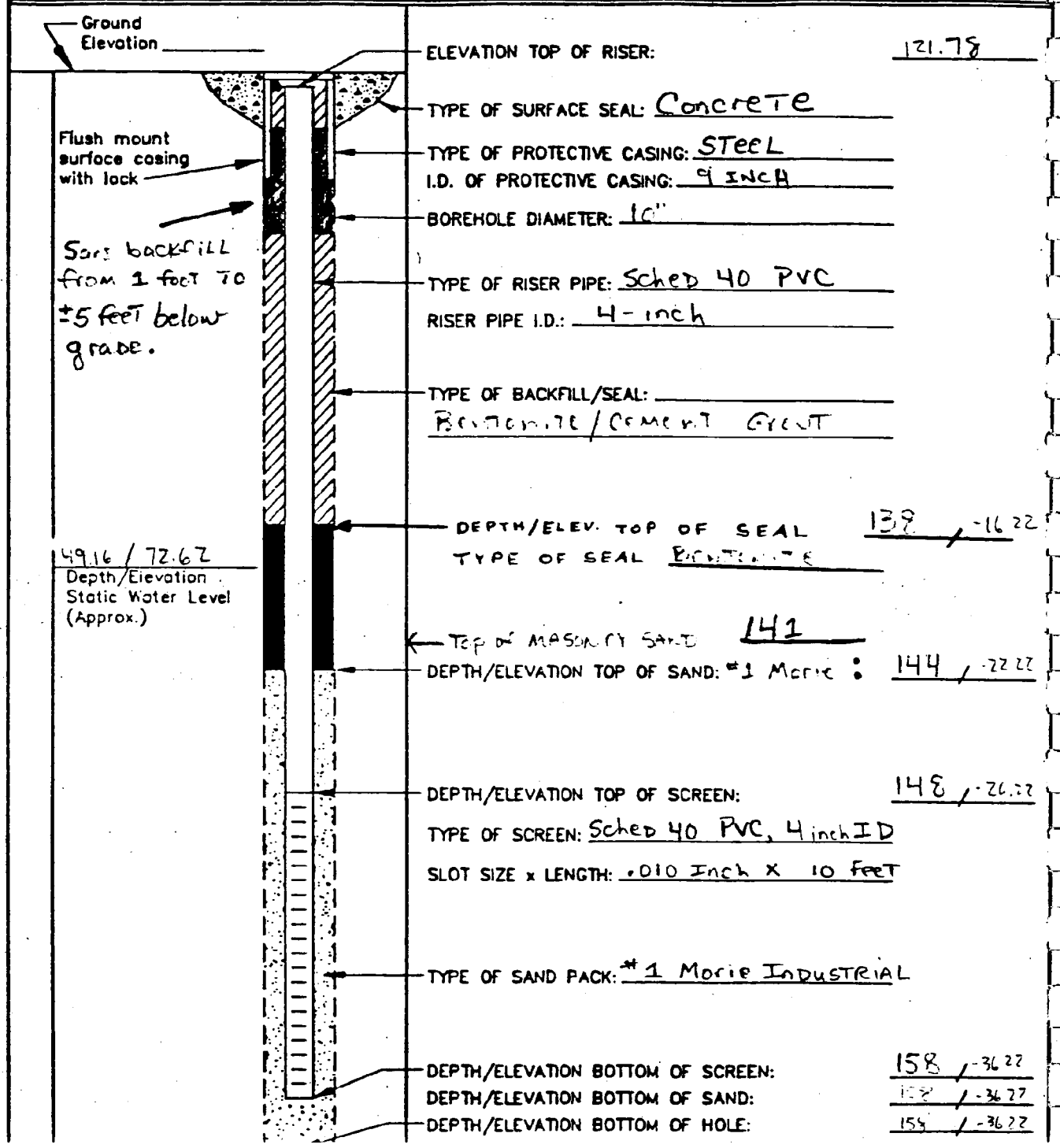
SCALE: 1/8" = 1' (SEE DRAWING)



WELL NO.: HN-24 I

## OVERBURDEN MONITORING WELL SHEET

PROJECT: <u>BETHPAGE NWIRP</u>	LOCATION: <u>BETHPAGE, NY</u>	DRILLER: <u>MIKE PELLEGRINO</u>
PROJECT NO.: <u>3281</u>	BORING: <u>HN-24 I</u>	DRILLING METHOD: <u>DELTA WELL &amp; DRILLING HOLLOW-STEM AUGER (6.25" ID)</u>
ELEVATION: _____	DATE: <u>10-25-91</u>	DEVELOPMENT METHOD: <u>AIRLIFT</u>
FIELD GEOLOGIST: <u>KEVIN KILMARTIN / DAVE YOST</u>		

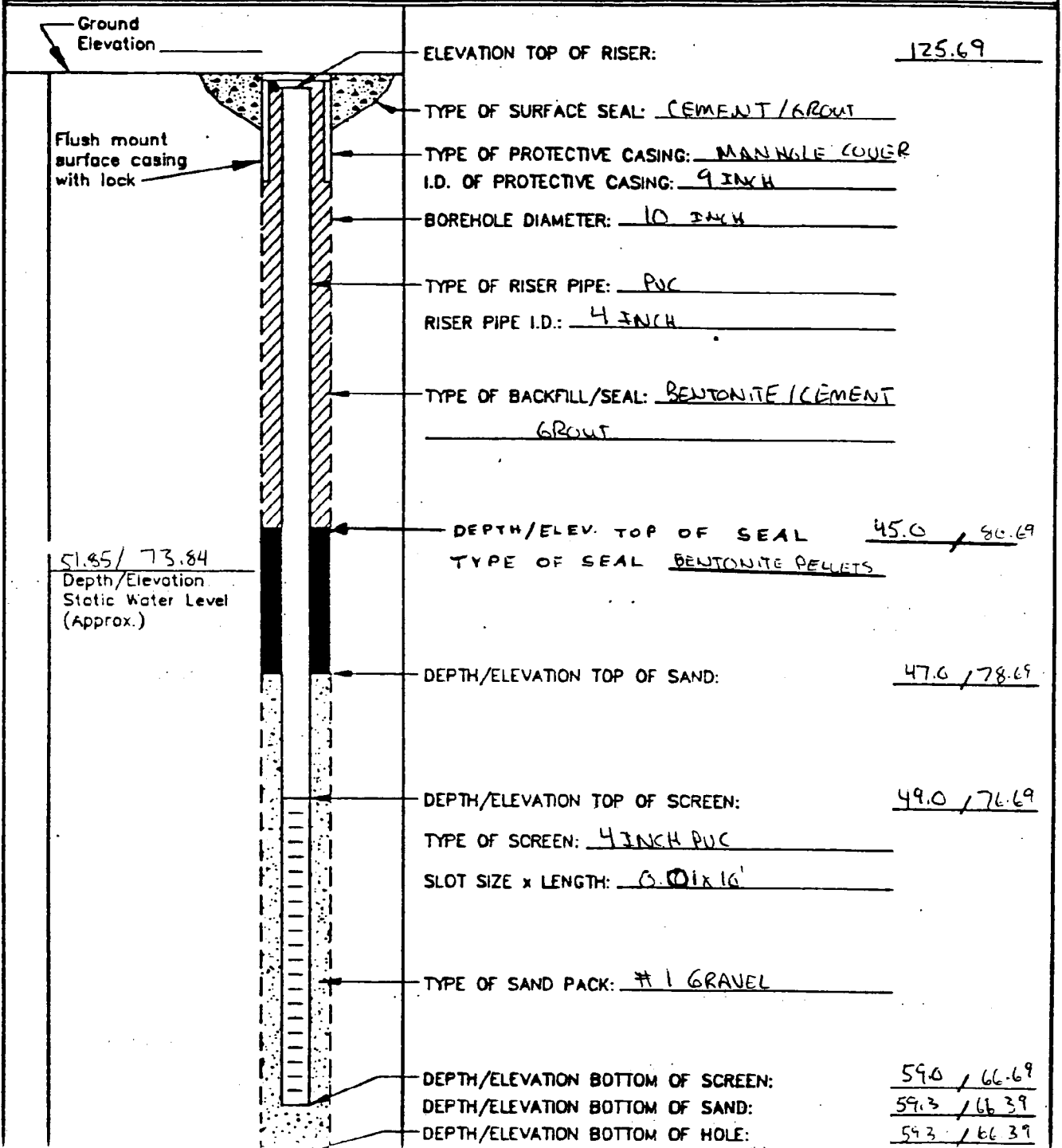




WELL NO.: HN25-5

## OVERBURDEN MONITORING WELL SHEET

PROJECT: <u>NWIRP BETHPAGE</u>	LOCATION: <u>BETHPAGE NY</u>	DRILLER: <u>J. FLECK (UNITFC)</u>
PROJECT NO.: <u>3281</u>	BORING: <u>HN25-5</u>	DRILLING METHOD: <u>HSA</u>
ELEVATION: _____	DATE: <u>9-25-91</u>	DEVELOPMENT METHOD: <u>SUBMERSIBLE PUMP</u>
FIELD GEOLOGIST: <u>N. Yost</u>		

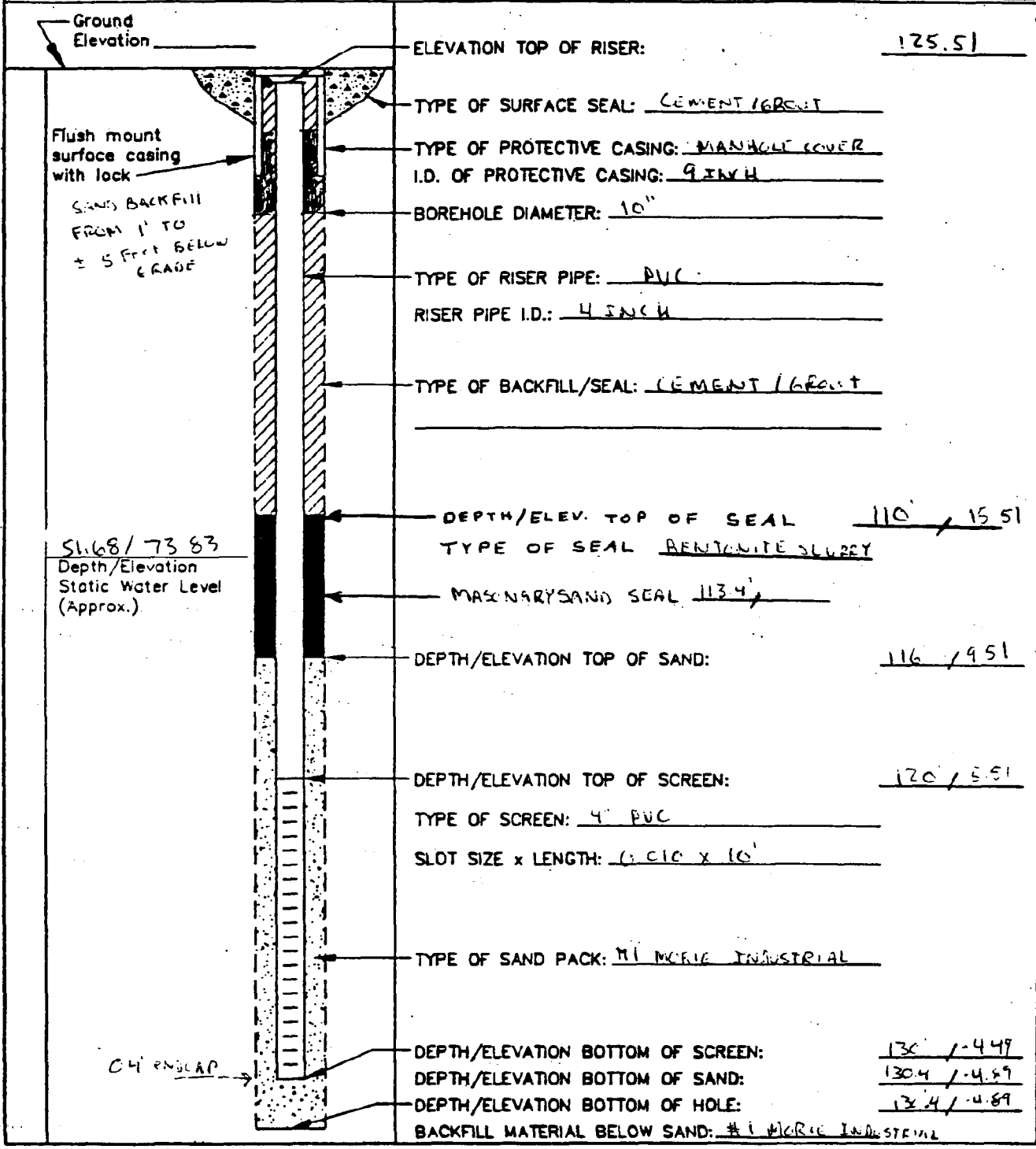




WELL NO.: HN 25-I

## OVERBURDEN MONITORING WELL SHEET

PROJECT: <u>NUIRP BETHPAGE</u>	LOCATION: <u>BETHPAGE N.Y.</u>	DRILLER: <u>MIKE P. (DELTA)</u>
PROJECT NO.: <u>3281</u>	BORING: <u>HN 25-I</u>	DRILLING METHOD: <u>HSA</u>
ELEVATION: _____	DATE: <u>11-21-91</u>	DEVELOPMENT METHOD: <u>AIRLIFT</u>
FIELD GEOLOGIST: <u>DAVE YOST / KEVIN KILMARTIN</u>		



NOTE: L170\GEOLOG\OBUWELL.DWG





WELL NO.: KN25-D

## OVERBURDEN MONITORING WELL SHEET

PROJECT: <u>NWTRP BETHPAGE</u>	LOCATION: <u>BETHPAGE N.Y.</u>	DRILLER: <u>MIKE P. (DELTA)</u>
PROJECT NO.: <u>3281</u>	BORING: <u>KN25-D</u>	DRILLING METHOD: <u>MUD ROTARY / REVERSE WATER</u>
ELEVATION: _____	DATE: <u>1-22-92</u>	DEVELOPMENT METHOD: <u>AIR LIFT</u>
FIELD GEOLOGIST: <u>D. Yost</u>		

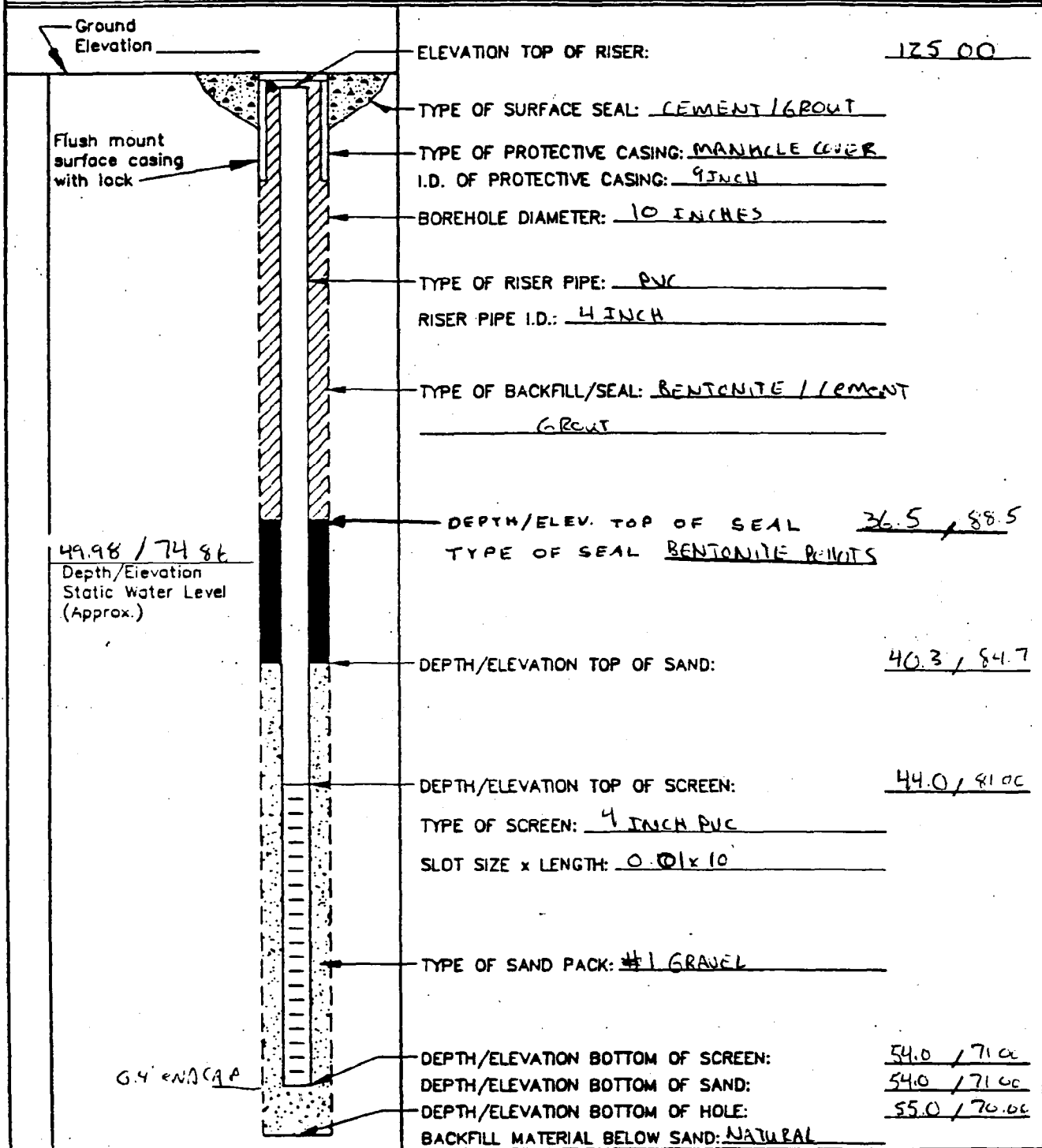
<p>Ground Elevation _____</p> <p>Flush mount surface casing with lock</p> <p>SAND BACKFILL FROM 1 FOOT TO 15' BELOW GRADE</p> <p style="text-align: center;">53 /</p> <p>Depth/Elevation Static Water Level (Approx.)</p>	<p>ELEVATION TOP OF RISER: _____</p> <p>TYPE OF SURFACE SEAL: <u>CEMENT</u></p> <p>TYPE OF PROTECTIVE CASING: <u>MANHOLE COVER</u></p> <p>I.D. OF PROTECTIVE CASING: <u>9"</u></p> <p>BOREHOLE DIAMETER: <u>8"</u></p> <p>TYPE OF RISER PIPE: <u>PVC</u></p> <p>RISER PIPE I.D.: <u>4 INCH</u></p> <p>TYPE OF BACKFILL/SEAL: <u>BENTONITE SLURRY / CEMENT</u></p> <p>DEPTH / ELEV. TOP OF SEAL <u>BENTONITE SLURRY SEAL</u> <u>196.51</u></p> <p>MASONRY SAND SEAL DEPTH / ELEV. <u>193.51</u></p> <p>DEPTH/ELEVATION TOP OF SAND: <u>196.8 /</u></p> <p>DEPTH/ELEVATION TOP OF SCREEN: <u>200 /</u></p> <p>TYPE OF SCREEN: <u>4 INCH PVC</u></p> <p>SLOT SIZE x LENGTH: <u>0.01 x 10'</u></p> <p>TYPE OF SAND PACK: <u>#1 MORTAR SAND</u></p> <p>DEPTH/ELEVATION BOTTOM OF SCREEN: <u>210 /</u></p> <p>DEPTH/ELEVATION BOTTOM OF SAND: <u>216.3 /</u></p> <p>DEPTH/ELEVATION BOTTOM OF HOLE: <u>216.3 /</u></p> <p>BACKFILL MATERIAL BELOW SAND: <u>#1 MORTAR SAND</u></p>
---	---



WELL NO.: HN 26-5

## OVERBURDEN MONITORING WELL SHEET

PROJECT: <u>NWIRP BETHPAGE</u>	LOCATION: <u>BETHPAGE N.Y.</u>	DRILLER: <u>BILL JESTER</u>
PROJECT NO.: <u>3261</u>	BORING: <u>HN 26-5</u>	DRILLING METHOD: <u>H.S.A.</u>
ELEVATION: _____	DATE: <u>9-5-91</u>	DEVELOPMENT METHOD: <u>SUBMERSIBLE PUMP</u>
FIELD GEOLOGIST: <u>FRED RAMSER</u>		



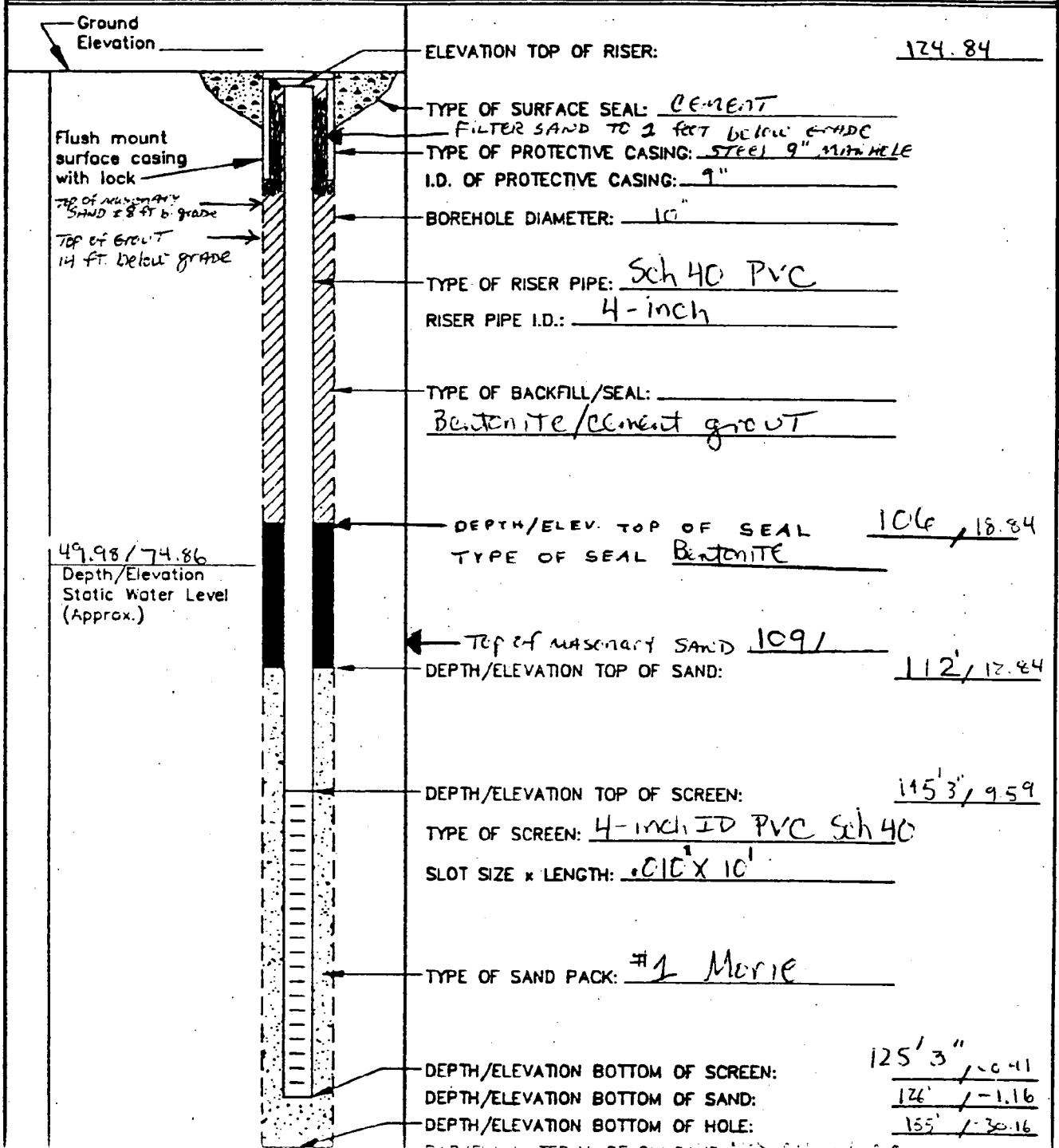
ACFILE: L670\GEO\CBUR01.DWG



WELL NO.: HW-26I

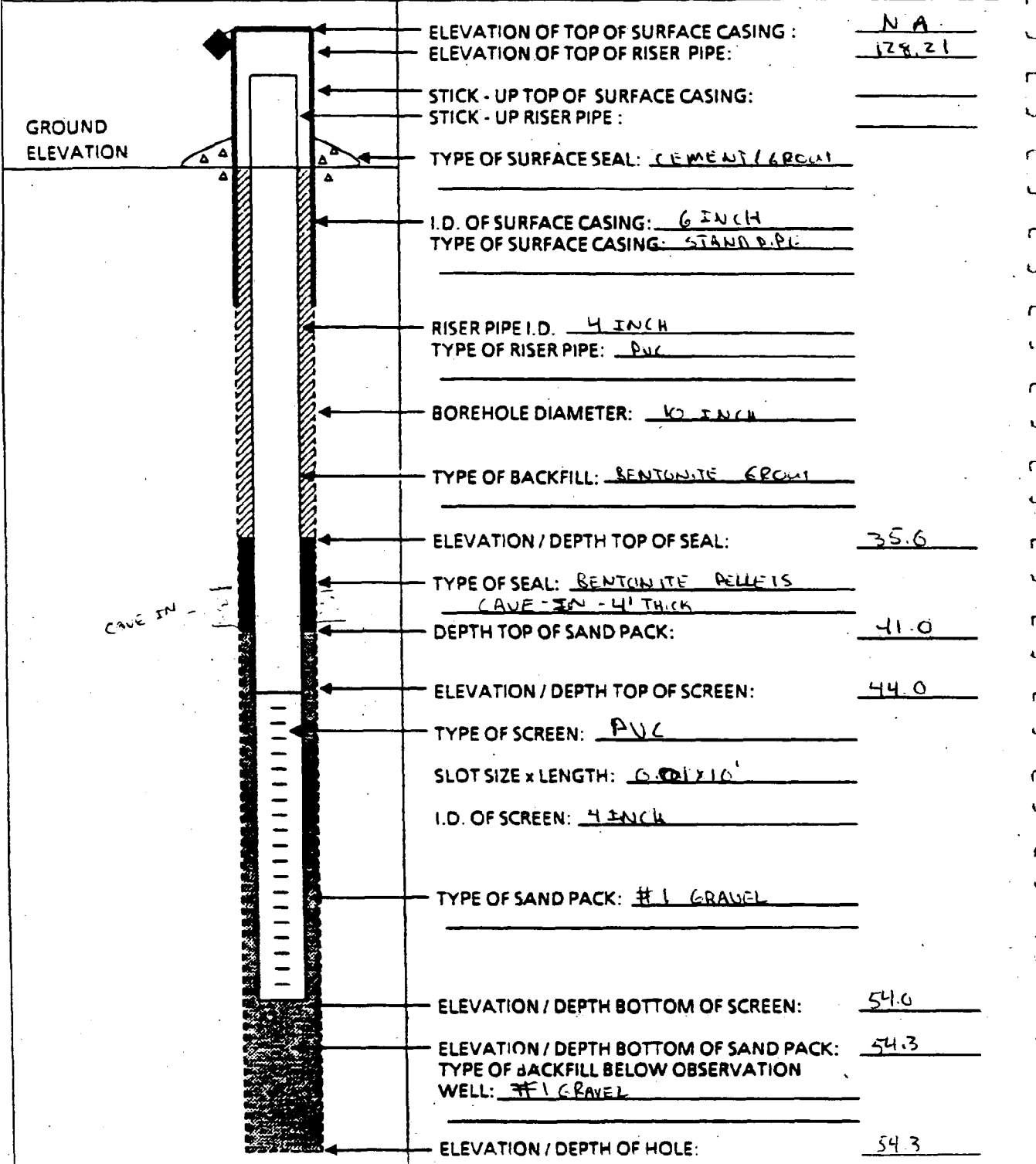
## OVERBURDEN MONITORING WELL SHEET

PROJECT: <u>NWTRP BETHPAGE</u>	LOCATION: <u>BETHPAGE N.Y.</u>	DRILLER: <u>MIKE P. (DELTA)</u>
PROJECT NO.: <u>3251</u>	BORING: <u>HW-26I</u>	DRILLING METHOD: <u>HSA</u>
ELEVATION: _____	DATE: <u>10-30-91</u>	DEVELOPMENT METHOD: <u>AIRLIFT</u>
FIELD GEOLOGIST: <u>KEVIN K. MAETIAI</u>		



# OVERBURDEN MONITORING WELL SHEET

PROJECT <u>NWIRP BETHPAGE</u>	LOCATION <u>BETHPAGE NY</u>	DRILLER <u>JAY FLECK</u>
PROJECT NO. <u>3281</u>	BORING <u>HN27-5</u>	DRILLING METHOD <u>HSA</u>
ELEVATION _____	DATE <u>9-4-91</u>	DEVELOPMENT METHOD <u>SUBMERSIBLE PUMP</u>
FIELD GEOLOGIST <u>FRED RAMSEA</u>		



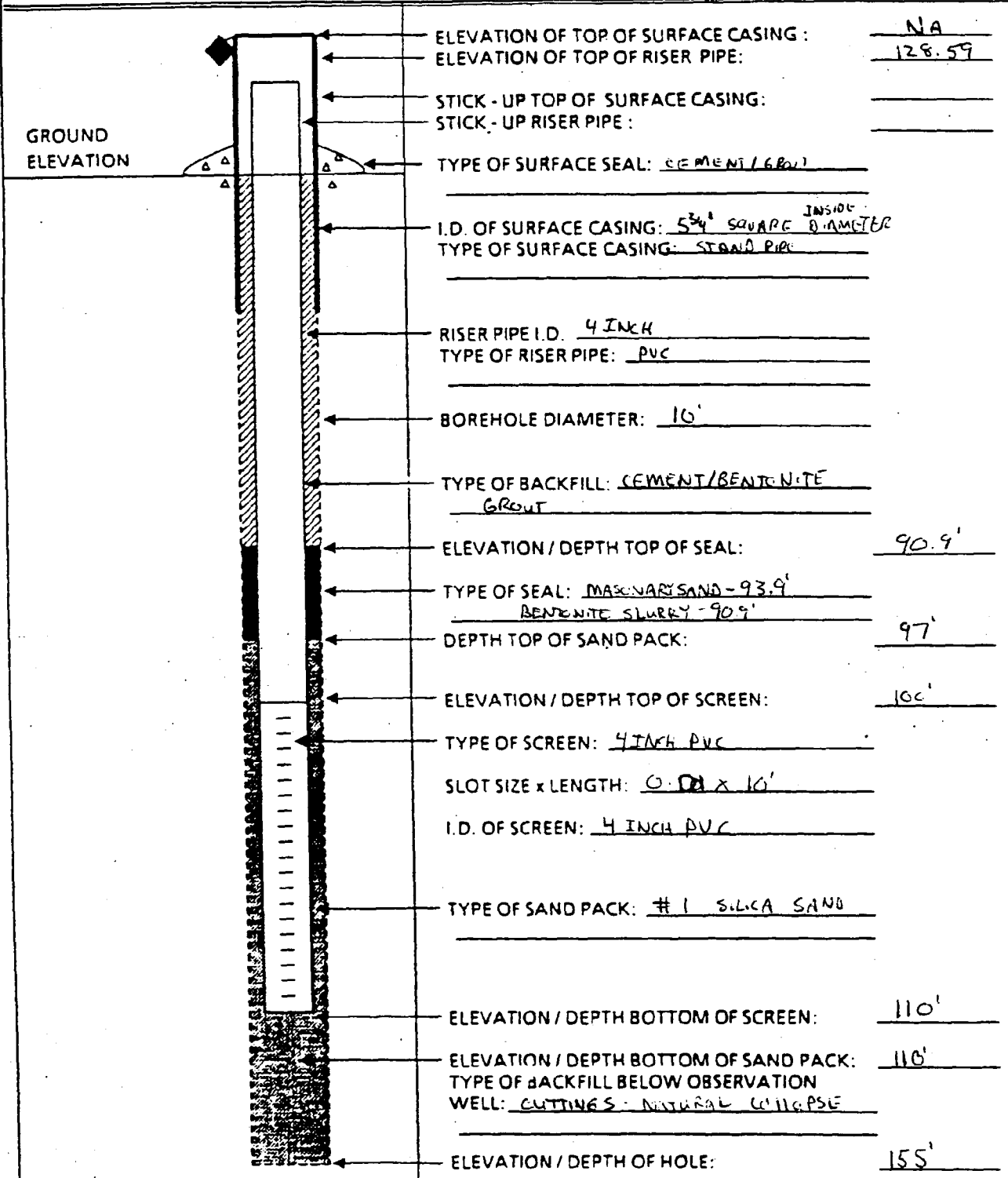


A Halliburton Company

27  
BORING NO HN 27 I  
DAY

# OVERBURDEN MONITORING WELL SHEET

PROJECT <u>NWTRP BETHPAGE</u>	LOCATION <u>BETHPAGE LI. N.Y.</u>	DRILLER <u>MIKE P (DELTA)</u>
PROJECT NO. <u>3281</u>	BORING <u>HN27-I</u>	DRILLING METHOD <u>HSA</u>
ELEVATION _____	DATE <u>11-4-91</u>	DEVELOPMENT METHOD <u>GRAVEL</u>
FIELD GEOLOGIST <u>D. YOST</u>		

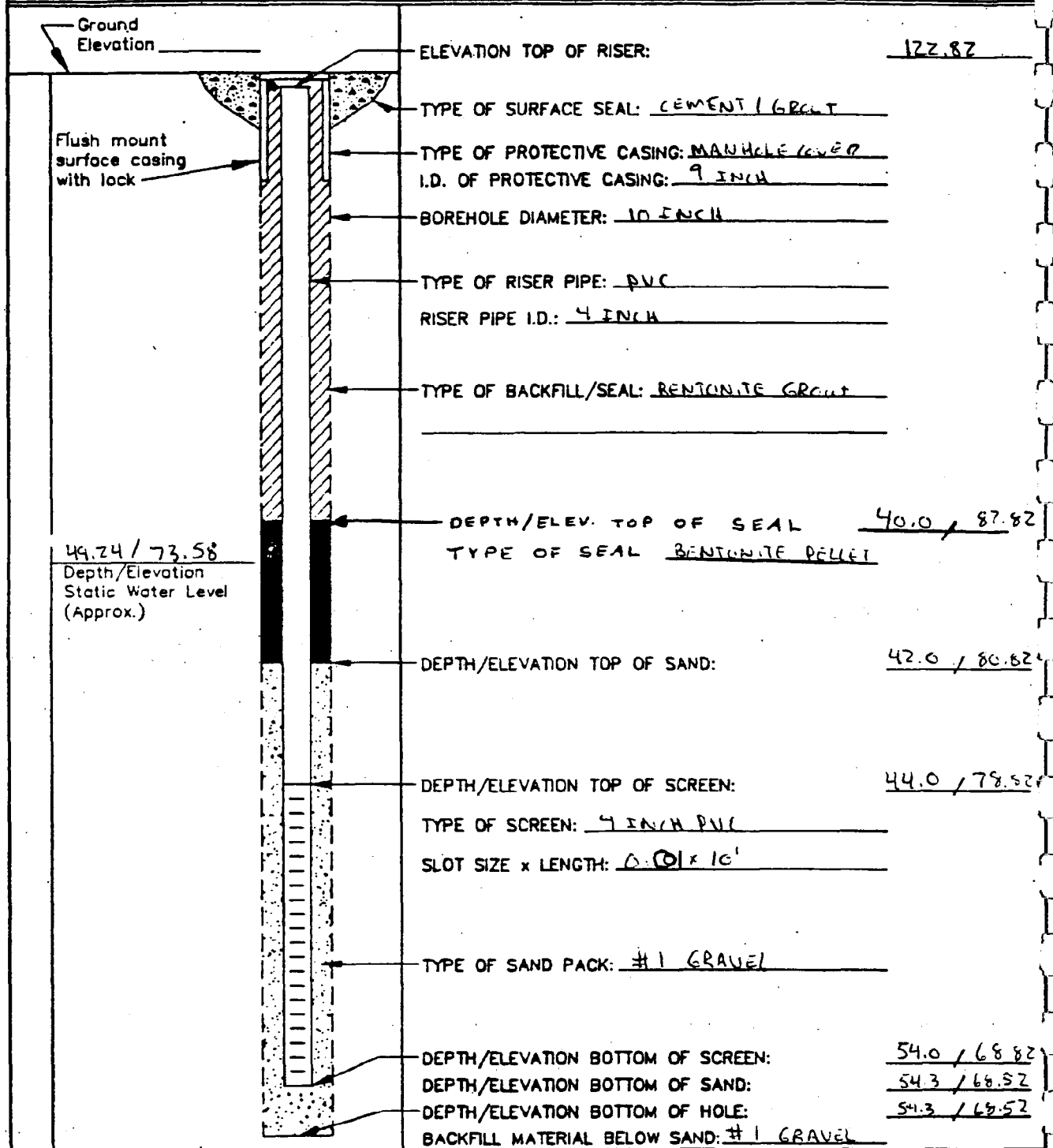




WELL NO.: HN28-S

## OVERBURDEN MONITORING WELL SHEET

PROJECT: <u>NWIRP BETHPAGE</u>	LOCATION: <u>BETHPAGE NY</u>	DRILLER: <u>JAY FLECK / UNITE</u>
PROJECT NO.: <u>3281</u>	BORING: <u>HN28-S</u>	DRILLING METHOD: <u>HSA</u>
ELEVATION: _____	DATE: <u>9-3-91</u>	DEVELOPMENT METHOD: <u>SUBMERSIBLE PUMP</u>
FIELD GEOLOGIST: <u>D. YOST</u>		



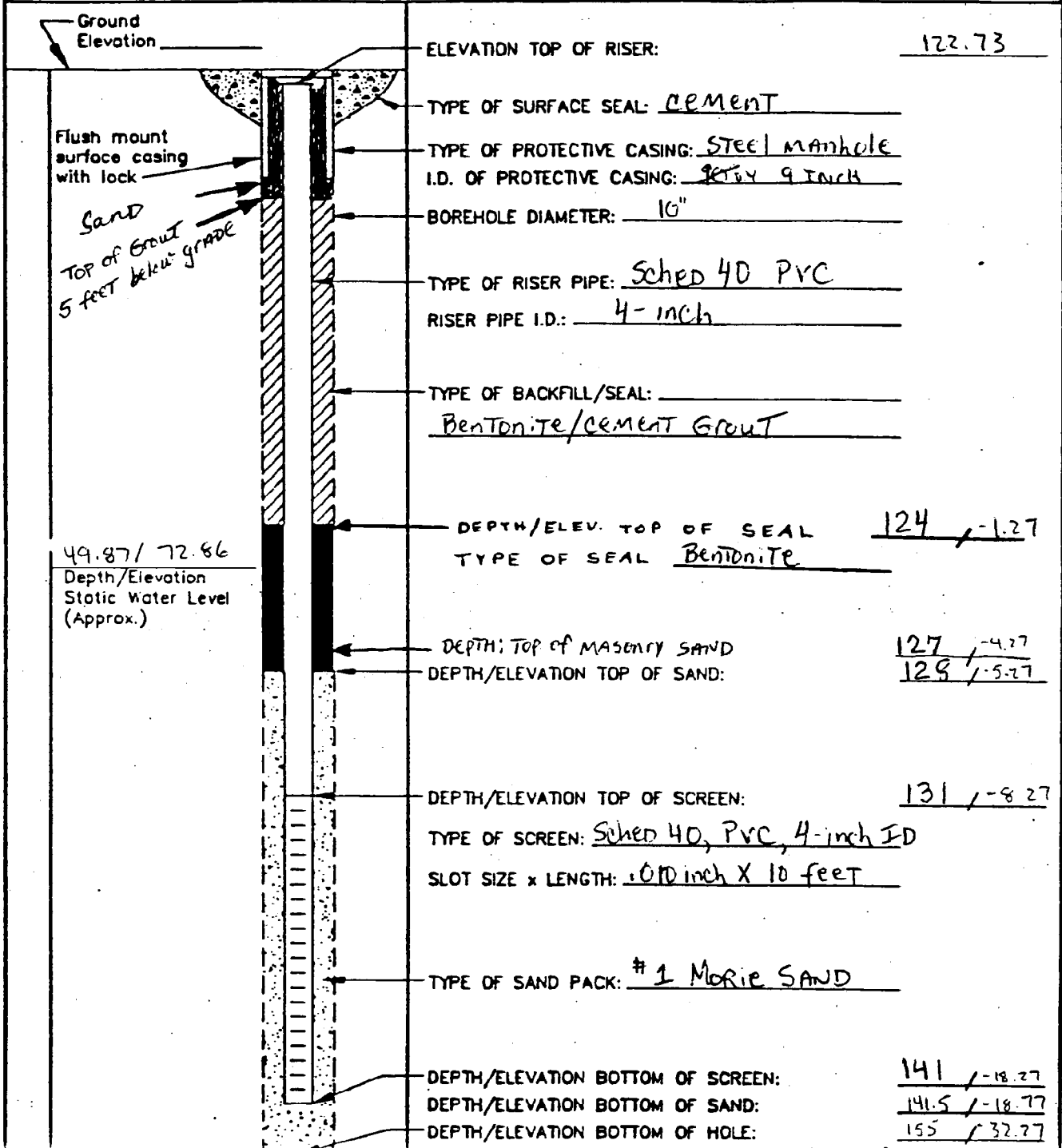
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WELL NO.: HN-28 I

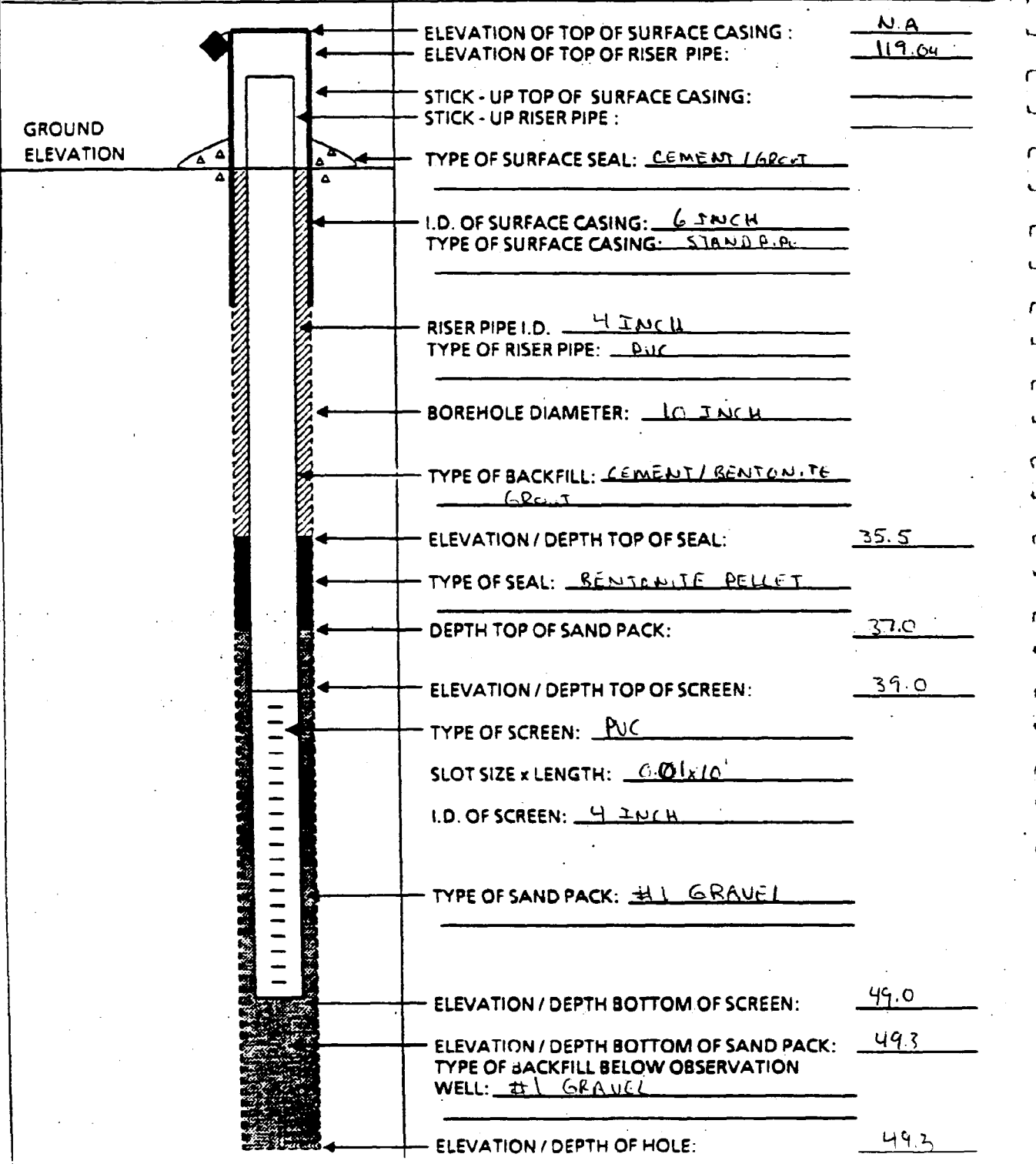
## OVERBURDEN MONITORING WELL SHEET

PROJECT: <u>BETHPAGE NWIRP</u>	LOCATION: <u>BETHPAGE, NY</u>	DRILLER: <u>DELTA: MIKE P.</u>
PROJECT NO.: <u>3281</u>	BORING: <u>HN-28 I</u>	DRILLING METHOD: <u>HSA</u>
ELEVATION: _____	DATE: <u>11-8-91</u>	DEVELOPMENT METHOD: <u>AIRLIFT</u>
FIELD GEOLOGIST: <u>KEVIN KILMARTIN / DAVE BRAYACK</u>		



# OVERBURDEN MONITORING WELL SHEET

PROJECT <u>NW ERP BETHPAGE</u>	LOCATION <u>BETHPAGE NY</u>	DRILLER <u>JAY FLECK (UNITEC)</u>
PROJECT NO. <u>3281</u>	BORING <u>HN29-S</u>	DRILLING METHOD <u>HSA</u>
ELEVATION _____	DATE <u>9-4-91</u>	DEVELOPMENT METHOD <u>SUBMERSIBLE PUMP</u>
FIELD GEOLOGIST <u>D Yost</u>		



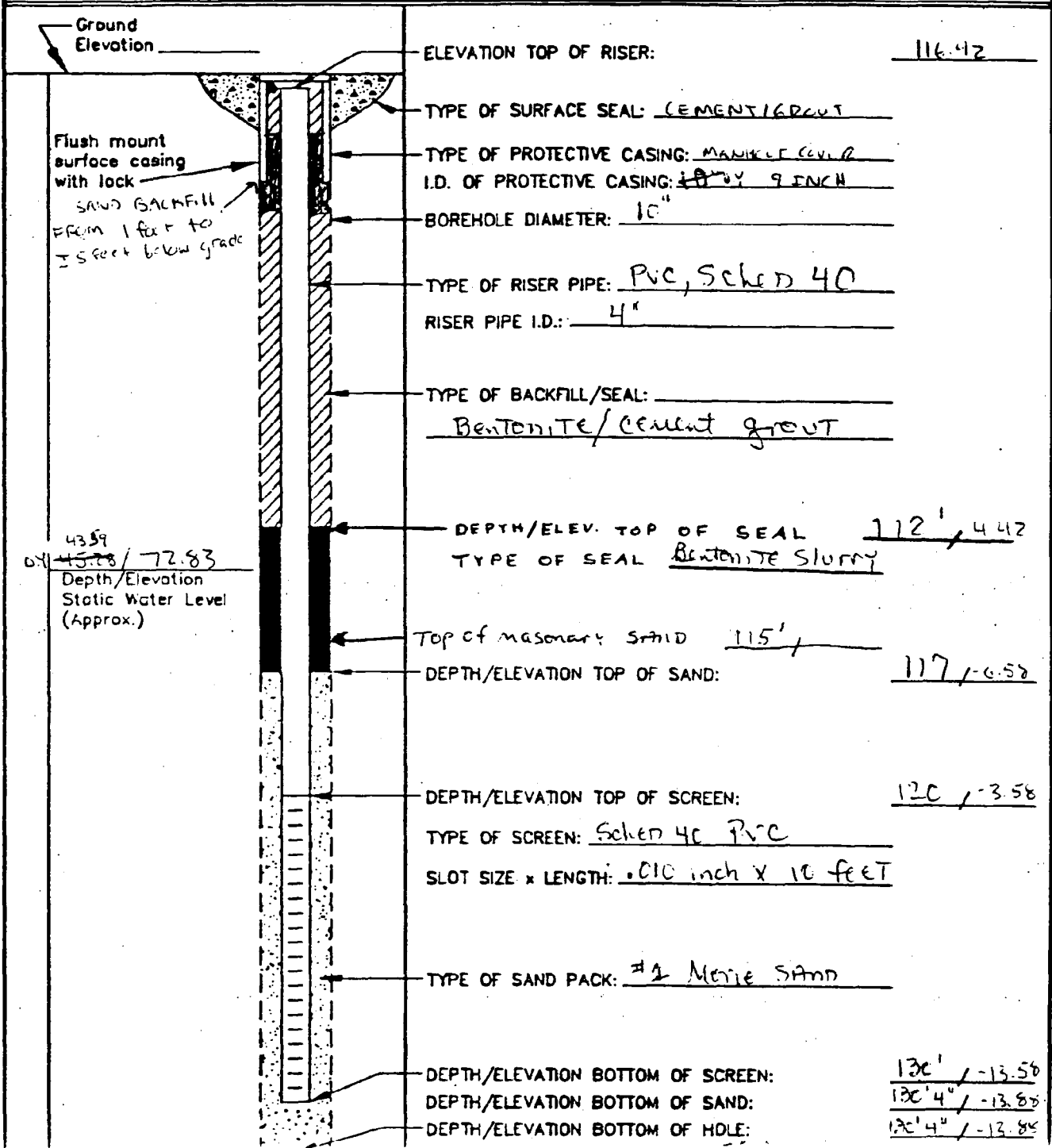




WELL NO.: HN 29 I

## OVERBURDEN MONITORING WELL SHEET

PROJECT: <u>NWIRP BETHPAGE</u>	LOCATION: <u>BETHPAGE N.Y.</u>	DRILLER: <u>MIKE P. (DELTA)</u>
PROJECT NO.: <u>3281</u>	BORING: <u>HN 29 I</u>	DRILLING METHOD: <u>HSA</u>
ELEVATION: _____	DATE: <u>11-26-91</u>	DEVELOPMENT METHOD: <u>AIRLIFT</u>
FIELD GEOLOGIST: <u>KEVIN KILMARTIN</u>		

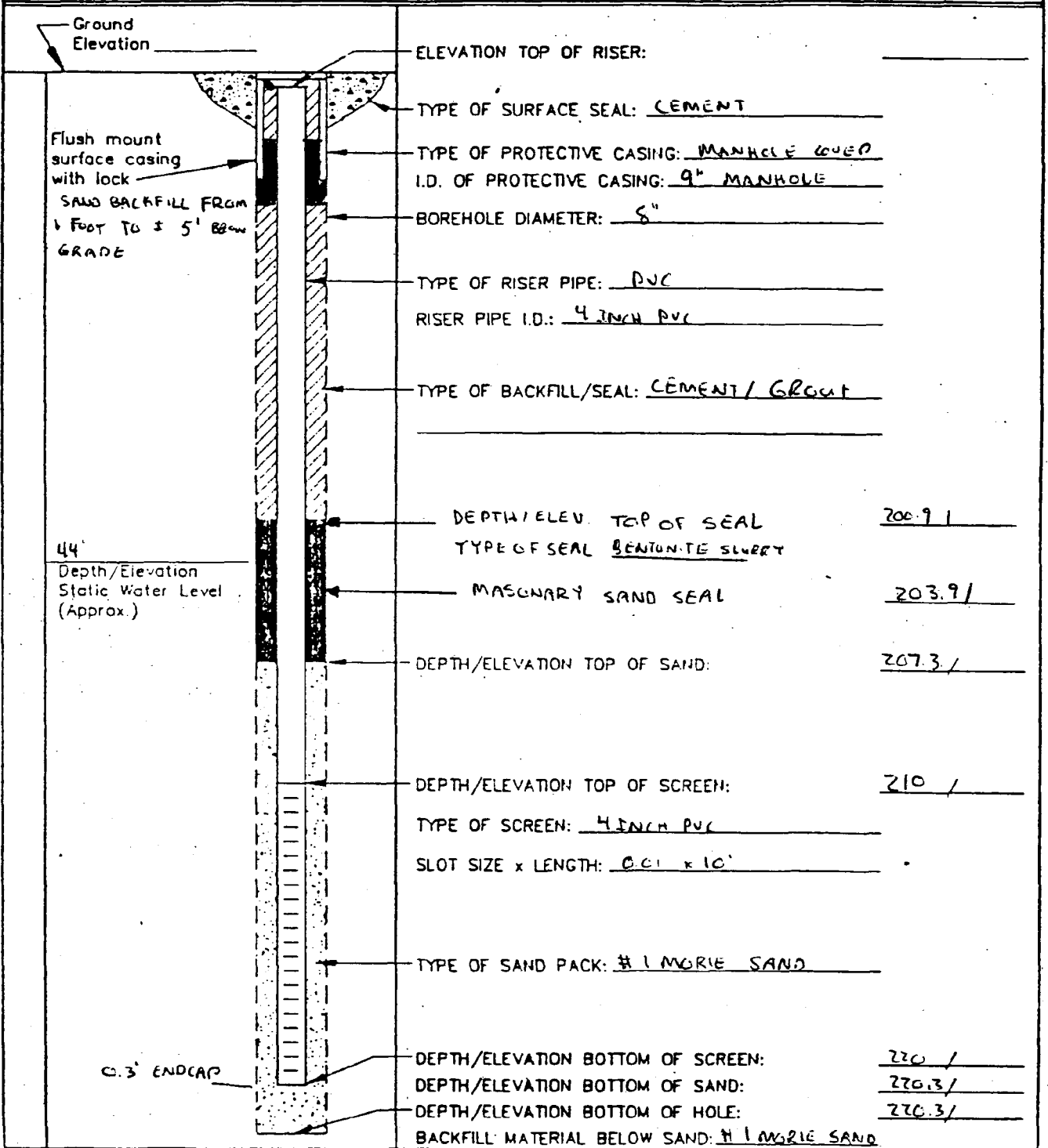




WELL NO.: KN29-D

## OVERBURDEN MONITORING WELL SHEET

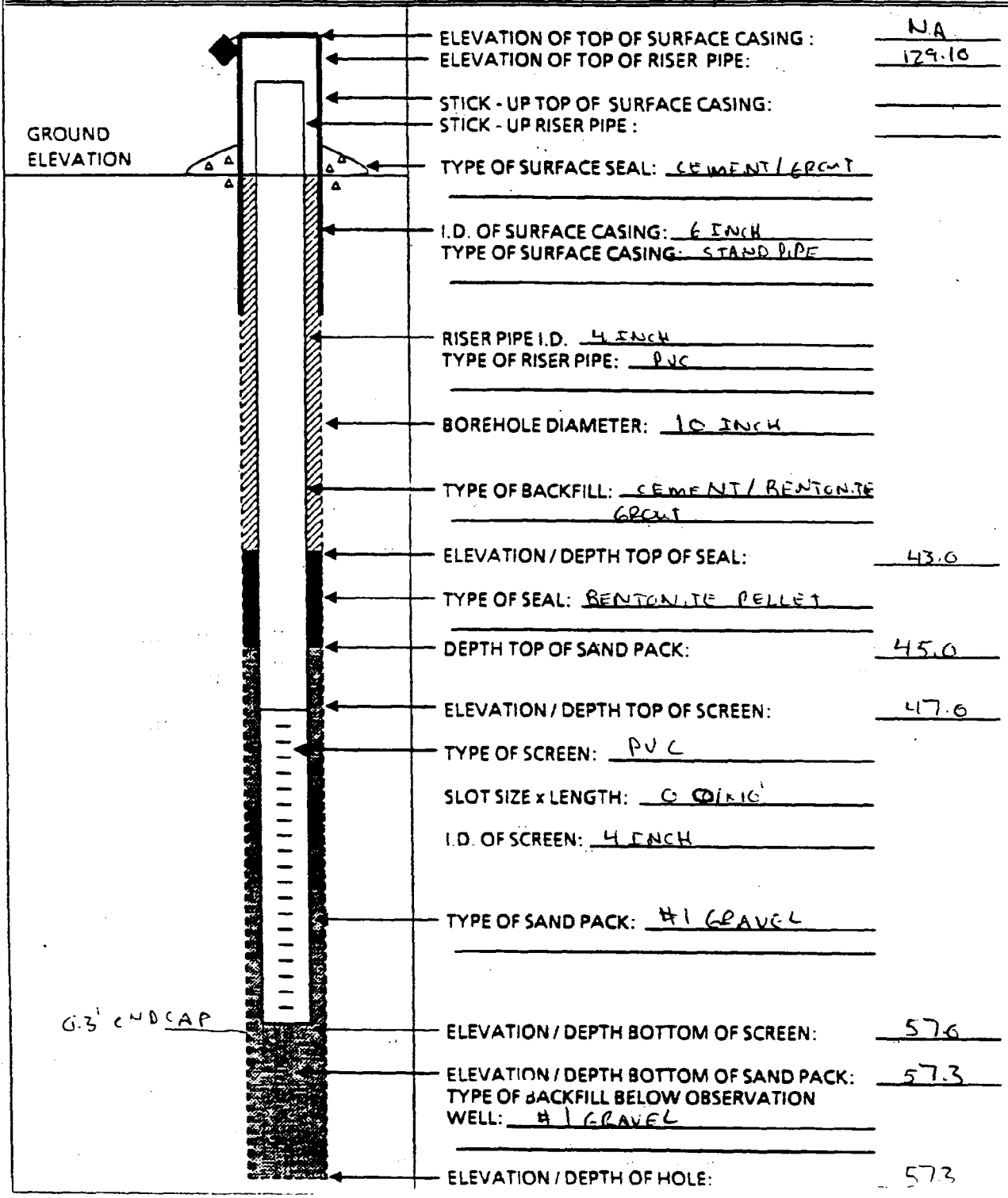
PROJECT: <u>NWTRP BETHPAGE</u>	LOCATION: <u>BETHPAGE N.Y.</u>	DRILLER: <u>MIKE P. (DELTA)</u>
PROJECT NO.: <u>3281</u>	BORING: <u>KN29-D</u>	DRILLING METHOD: <u>MUD Rotary / BEU 250 W/</u>
ELEVATION: _____	DATE: <u>1-8-92</u>	DEVELOPMENT METHOD: <u>AIRLIFT</u>
FIELD GEOLOGIST: <u>D. Yost</u>		



**OVERBURDEN  
MONITORING WELL SHEET**

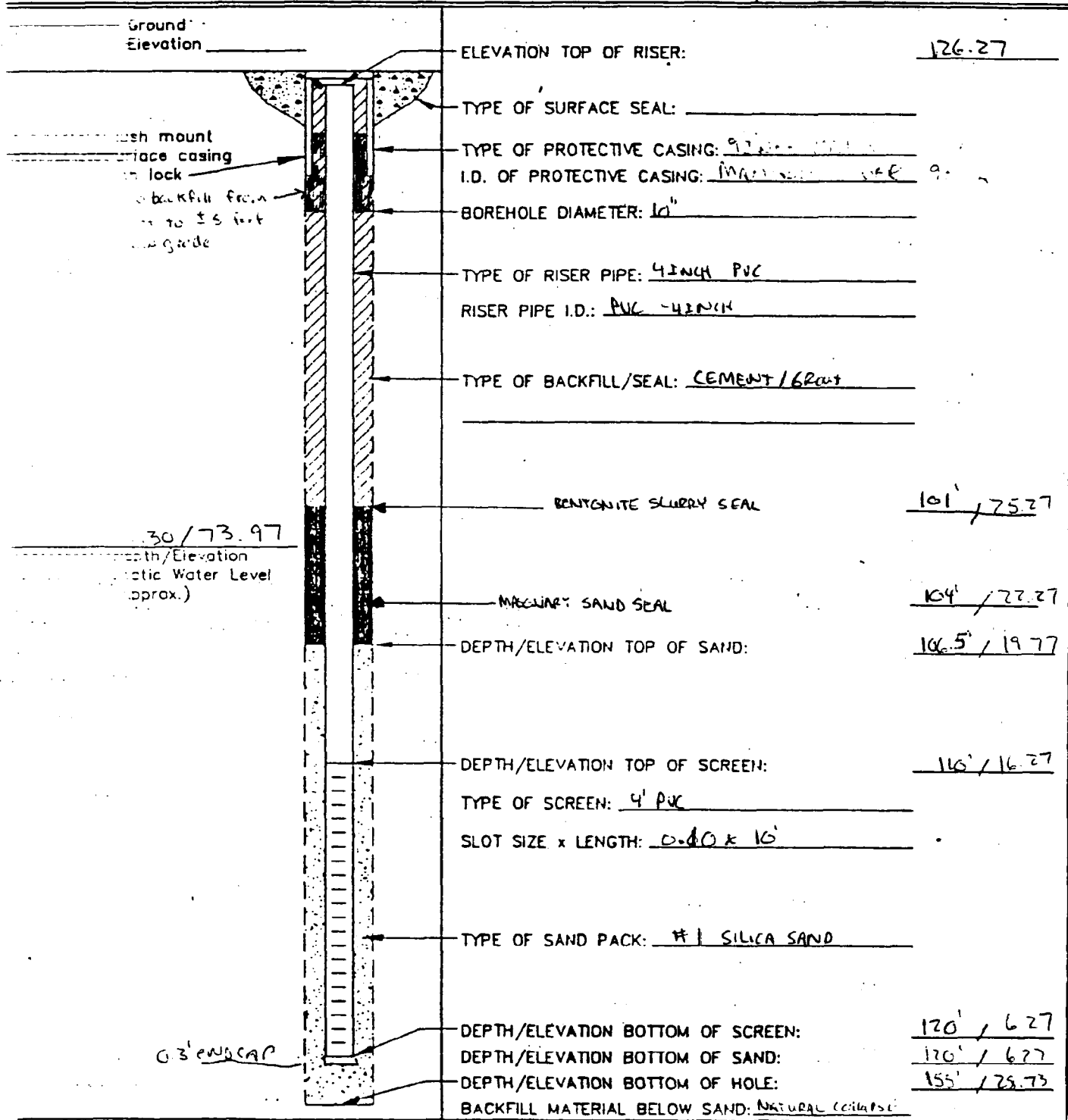
PROJECT NWIRP BETHPAGE LOCATION BETHPAGE N.Y.  
 PROJECT NO. 3281 BORING 4N30-S  
 ELEVATION \_\_\_\_\_ DATE 9-5-91  
 FIELD GEOLOGIST D. Yost

DRILLER J. FLECK (UNITEC)  
 DRILLING METHOD H.S.A.  
 DEVELOPMENT METHOD SUBMERSIBLE PUMP



## OVERBURDEN MONITORING WELL SHEET

PROJECT: <u>NWRP BETHPAGE</u>	LOCATION: <u>BETHPAGE LONG ISLAND NY</u>	DRILLER: <u>MIKE P. (DELTA)</u>
PROJECT NO.: <u>3281</u>	BORING: <u>HN 30-1</u>	DRILLING METHOD: <u>HSA</u>
LOCATION: _____	DATE: <u>10-21-91</u>	DEVELOPMENT METHOD: <u>AIRLIFT</u>
GEOLOGIST: <u>D. Yost</u>		

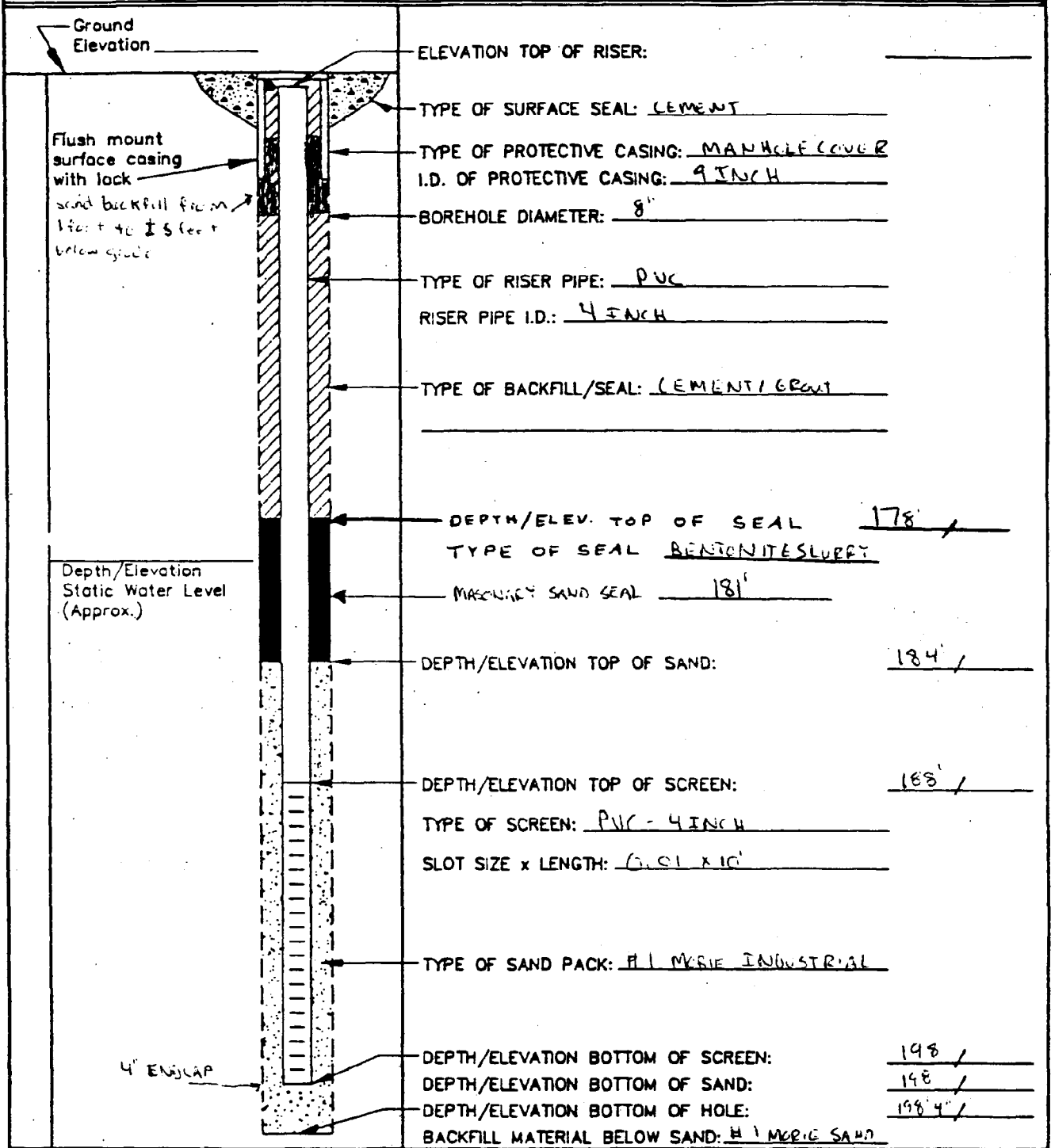




WELL NO.: HNC08 D

## OVERBURDEN MONITORING WELL SHEET

PROJECT: <u>AMJRP BETH PAGE</u>	LOCATION: <u>BETHPAGE NY</u>	DRILLER: <u>MIKE P (DELTA)</u>
PROJECT NO.: <u>3781</u>	BORING: <u>HNC08-D</u>	DRILLING METHOD: <u>MUD ROTARY / REVERSE WATER CIRCULATION</u>
ELEVATION: _____	DATE: <u>12-19-91</u>	DEVELOPMENT METHOD: <u>AIR LIFT</u>
FIELD GEOLOGIST: <u>DAVE YOST / KEVIN KULMARTIN</u>		



ACFILE: L670\GEOL\OBURD01.DWG



E

**APPENDIX E**  
**WELL DEVELOPMENT LOG SHEETS**

CLIENT: NWRP Bethpage	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 borehole.						
1430	Pump off	TOTAL AMOUNT pumped is			6700 gallons.		

NUS 155A REVISED 0285



CLIENT: NWIRF Bethpage	WELL NO.: HW2YS	BY: Kilmartin	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' 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					± 1.5 gpm	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' below ground

CLIENT: NWIRP BETHPAGE	WELL NO.: 11N24I	BY: D. BRAYACK	PAGE   OF   
SUBJECT: MONITORING Well DEVELOPMENT LOG		CHECKED BY:	DATE: 11-25-91

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (MMHO)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
1110	AIRLIFT	105	14.7	9.75	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							more 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	"	1650 GALLONS PUMPED
1512							more air to top of screen
1530	"	3.7	14.1	7.0	225	"	
1553	"	2.7	14.1	7.3	220	"	1700 GALLONS PUMPED
1555							END PUMPING TANKER

NUS 1554 REVISED 0285

CLIENT: **MINERP Bethpage**      METER NO.: **HW255**      BY: **K. Schwartz**      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 come 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
1912	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	19.7	5.95		"	Clear
0840	"	21.9	19.7	4.87			clear

CLIENT: NWIRP BETHPAGE	WELL NO: W255	BY: <i>Kilmer</i>	PAGE 2 OF
SUBJECT: MONITORING Well DEVELOPMENT LOG		CHECKED BY:	DATE:

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (UMHO)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
0900	Submersible pump	28.4	18.2	4.77		±1.5	clear
0902	Pump off						
0910							Static water = 52' 4"
							below ground surface

NUS 155A REVISED 0785

CLIENT: **NWIRP Bethpage**      **WELL NO: W225-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. (UMHO)	YIELD (GALLONS PER MIN) (GPM)	APPEARANCE, COLOR, ETC.
0915	AIR LIFT	7200	14.7	7.2	125	460	
0945	"	7200	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	15.6	6.1	115	1610	
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.A. 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

CLIENT: <b>NWRP Bethpage</b>	WELL NO.: <b>14W25E</b>	BY: <b>D. GRAYAK K. K. MARTIN</b>	PAGE 2 OF 2
SUBJECT: <b>MONITORING WELL DEVELOPMENT LOG</b>		CHECKED BY:	DATE: <b>11-26, 27-91</b>

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (MMHO)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
1456	AIRLIFT	80	17.3 <del>16.6</del>	6.4	100	3810	
1505	"	24	16.5	6.2	105	4040	
1520	"	23	16.9	6.4	105	4770	
1545	"	150	16.5	6.4	105	4560	Scuffed to bottom. 1m from top of screen
1600	"	150	16.2	6.5	105	4650	
1615	"					4730	
1620	"						5060
1630	"		14.4	6.3	95	4960	
0910	"	82.4	16.7	7.52	180	1500	
1000	"	67.4	16.6	5.92	100	2300	SL cloudy vs. 3/4 suspended silt
1050	"	35.8	16.1	5.73	100	2700	Clear vs. 3/4 suspended silt
1112	"	28.5	16.3	5.72	100		Clear
1145	"	21.1	17.0	5.43	100		Clear vs. 3/4 suspended silt
1200	"	11.4	16.5	6.21	100	3910	

-27-91

CLIENT: NWIRP BETHPAGE	WELL NO.: H25.0	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	7200	12.3	8.20	200	40	BROWN
0917	"	7200	14.2	6.69	100	"	"
0927	"	7200	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	"	45.6	14.8	6.33	90	"	"
1141	"	39.0	14.8	6.47	90	"	"
1150	"	36.5	14.8	6.49	90	"	"
							N 7000 GALLONS PUMPED

CLIENT: **NWIRP Bethpage**      **WELL NO: HN265**      BY: **Kilmartin**      PAGE 1 OF 1

SUBJECT: **MONITORING Well DEVELOPMENT LOG**      CHECKED BY:      DATE: **9-7-91**

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (MMHO)	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	"	7200	12.4	10.79		"	colorless cloudy
1100	"	7200	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

NUS 155A REVISED 0285



CLIENT: MWIRP BOHPAGE	WELL NO.: MW26-I	BY: D. YOST	PAGE   OF   1   1
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE:

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (MMHO)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
1114	A. RLIFT	>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	8.70	175	~10	SL. CLOUDY
1325	"	57.2	NA	NA	175	"	SL. CLOUDY CLEAR
1351	"	46.5 (100)	19.5	NA	175	"	CLEAR
1416	"	21.9	19.1	NA	175	"	"
1442	"	17.6	16.1	6.46	170	"	"
1515	"	11.1	10.1*	6.57	170	"	"
1616	"	NA	12.9	6.81	160	"	"
1656	"	NA	10.9	6.88	160	"	"

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MAYBE  
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CLIENT: NWIRP Bethpage	WELL NO.: HW-275	BY: <i>Kalman</i>	PAGE OF
SUBJECT: MONITORING WELL DEVELOPMENT LOG		CHECKED BY:	DATE: 9-6-91

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (MMHO) (1510)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
	Submersible Pump		on	at	3:10 p.m.	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					

NUS 155A REVISED 0285

CLIENT: NWGRP BOHPAGE. WELL NO.: W127-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.
1011	AIRLIFT	63.9	15.6	9.77	160	2	SLIGHTLY CLEAR
1022	"	7200	16.0	7.55	115	"	Red mud
1105	"	24.7	17.0	6.16	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	"	"
1421	"	21	17.5	5.93	95	"	"
1600	"	16.4	17.0	6.05	80	"	"
1625	"	21.5	17.5	6.02	90	"	"
1700	"	14.9	17.5	6.10	90	"	"

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CLIENT: NWIRP BETHPAGE	WELL NO.: HN285	BY: FRED W. RANER	PAGE OF
SUBJECT: MONITORING Well DEVELOPMENT LOG		CHECKED BY:	DATE: 7-5-81

TIME	METHOD	TURBIDITY (NTU)	T° °C	PH	CONDUCT. (MMHO)	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: NWRP BETHPAGE	METS: WELL NO: A285	BY: FRED W. RAMSER	PAGE OF
SUBJECT: MONITORING Well DEVELOPMENT LOG		CHECKED BY:	DATE: 9-6-91

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (MMHO)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
0745		>200	8.1	6.77	N/A	1.2	LIGHT BROWN
0809		7200	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	<del>———— SURGED WELL ————</del>						
0930		>200	10.2	6.33	N/A	"	
0950		131.3	11.2	7.09	N/A	"	
1010		>200	11.8	6.86	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			
<del>1055</del>							

NUS 155A REVISED 0286

CLIENT: MWRP Bethpage	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. (MMHO)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
1840	Submersible					± 1	Pump on
1850	"	>200	7.5	6.21			light brown
1910	"		6.5	6.07			Colorless but cloudy
1920	Pump	OFF					
0315	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

<b>CLIENT:</b> NW ERP Bethpage	<b>WELL NO.:</b> WJ26-J	<b>BY:</b> D.Yost	<b>PAGE 1 OF 1</b>
<b>SUBJECT:</b> MONITORING Well Development LOG		<b>CHECKED BY:</b>	<b>DATE:</b> 11-15-91

Time	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (MMHO)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
11-15 1255	AIRLIFT	7200	18.6	8.46	205	3	BROWN
1315	"	193.5	18.1	6.42	140	"	CLOUDY
1331	"	57.4	17.3	5.92	135	"	S. 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	"	"

NUS 155A REVISED 0285

CLIENT: NWIRP Bethpage	WELL NO.: HN295	BY:	PAGE 1 OF
SUBJECT: MONITORING Well DEVELOPMENT LOG		CHECKED BY:	DATE: 9-6-71

TIME	METHOD	TURBIDITY (NTU)	T <sub>c</sub>	PH	CONDUCT. (UMHO)	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			

NUS 155A REVISED 0285



NUS CORPORATION AND SUBSIDIARIES STANDARD CALCULATION SHEET

CLIENT: NWIRP Bethpage PHOTO: WELL NO: H295 BY: *K. M. ...* PAGE 1 OF 1  
 SUBJECT: MONITORING Well DEVELOPMENT LOG CHECKED BY: DATE: 9-10-91

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (MMHO)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
1050							Pre-pump static 43' below top of <i>Surface casing</i>
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	"					
1102	<i>Submersible pump</i>	"	17.5	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		

1.1191

NUS 155A REVISED 0285 1404

CLIENT: <b>NWIRP Bethpage</b>	WELL NO.: <b>HWZII</b>	BY: <b>P. YOST</b>	PAGE 1 OF 1
SUBJECT: <b>MONITORING Well DEVELOPMENT LOG</b>		CHECKED BY:	DATE: <b>12-2-91</b>

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (MMHO)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
1108	AR LIFT	83.3	15.5	7.59	105	2	CLOUDY
1138	"	21.6	16.2	5.72	100	"	SK. CLOUDY / CLEAR
1215	"	12.5	15.9	5.40	100	"	CLEAR
1312	"	10.6	15.5	5.20	95	"	"
1320	"	8.7	14.4	5.37	95	"	"
1417	"	8.9	15.2	5.29	105	"	"
1445	"	7.2	15.5	5.32	105	"	"
1454	"	9.4	15.0	5.48	105	"	"
1555	"	9.0	14.0	5.40	105	"	"
1635	"	5.4	14.8	5.41	105	"	"

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T. MIDDLE  
OF SECTION

A.R. H...  
AT TOP  
OF SECTION

117-92

CLIENT: <b>NWIRP BETHPAGE</b>	WELL NO.: <b>HN29-D</b>	BY: <b>K.K. MARTIN</b>	PAGE   OF   <b>1   1</b>
SUBJECT: <b>MONITORING Well DEVELOPMENT LOG</b>		CHECKED BY:	DATE: <b>1-17-92</b>

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (MMHO)	YIELD (GPM)	APPEARANCE, COLOR, ETC.
1140	AIR LIFT	5.6	11.7	5.83	166	56	CLEAR
1200	"	4.6	12.8	5.67	136		CLEAR
							7000 GALLONS pumped

NUS 155A REVISED 0785

CLIENT: NWIRP Bethpage	WELL NO.: HN305	BY: K. Martin	PAGE 1 OF
SUBJECT: MONITORING Well Development Log		CHECKED BY:	DATE: 9-9-91

TIME	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (M.MHO)	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

MUS 155A REVISED 0285

<b>CLIENT:</b> NWIRP BETHPAGE	<b>WELL NO.:</b> HN 30 S	<b>BY:</b>	<b>PAGE</b> 2 <b>OF</b>
<b>SUBJECT:</b> MONITORING WELL DEVELOPMENT LOG		<b>CHECKED BY:</b>	<b>DATE:</b> 9-9-91

Time	METHOD	TURBIDITY (NTU)	T°	PH	CONDUCT. (MMHO)	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

NUS 155A REVISED 0285

NUS CORPORATION AND SUBSIDIARIES STANDARD CALCULATION SHEET

CLIENT: NWIRP Bethpage      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.
0922	AIRLIFT	7200	13.8	9.4	250	2-10	BROWN
0937	"	"	14.1	8.73	190	"	LT BROWN
0952	"	"	15.1	8.36	170	"	"
1029	"	"	14.9	9.10	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
1379	"	51.6	13.8	9.0	140	"	"
1351	"	44.9	14.6	8.02	140	"	"
1432	"	39.2	14.8	8.09	140	"	CLEAR
1456	"	34.6	14.8	8.10	140	"	CLEAR
1533	"	32.2	14.6	9.88*	140	"	clear
1600	"	27.9	14.2	8.73*	140	"	clear
1620	"	26.8	13.9	9.49*	140	"	clear
1640	"	25.9	14.3	9.87*	140	"	clear
Pump off at 1642							

1-8-91

USE PUMP  
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NUS 155A REVISED 0285

\* INCREASE READING ?



F

**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.

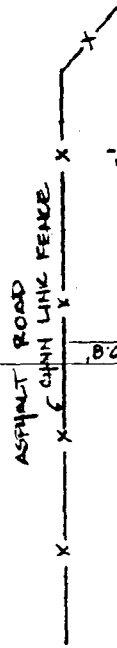
Control points and well coordinates copied from the surveying notebook are provided in the following pages.

**CONTROL POINTS AND WELL COORDINATES**

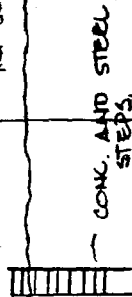
GRUMMAN — TRAVERSE LOCATIONS

DECEMBER 19, 1991

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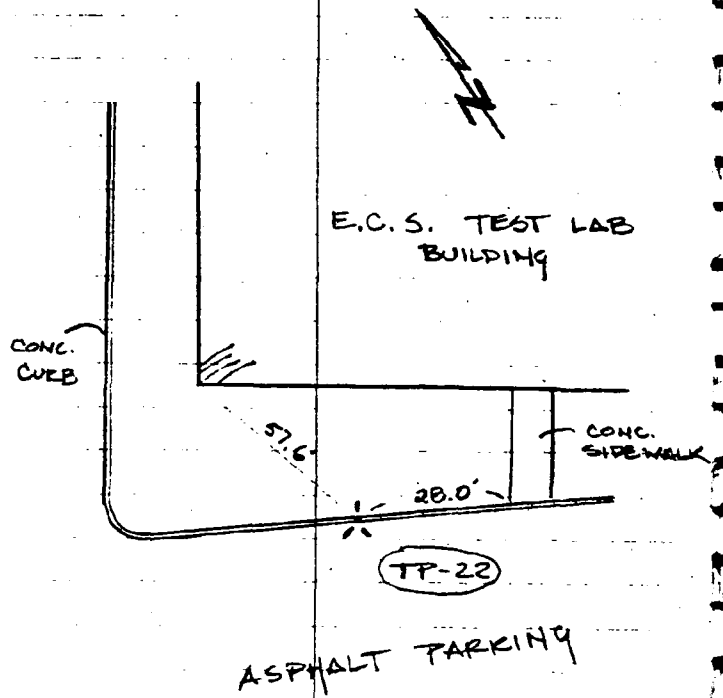
N.C. SEWER M.H.



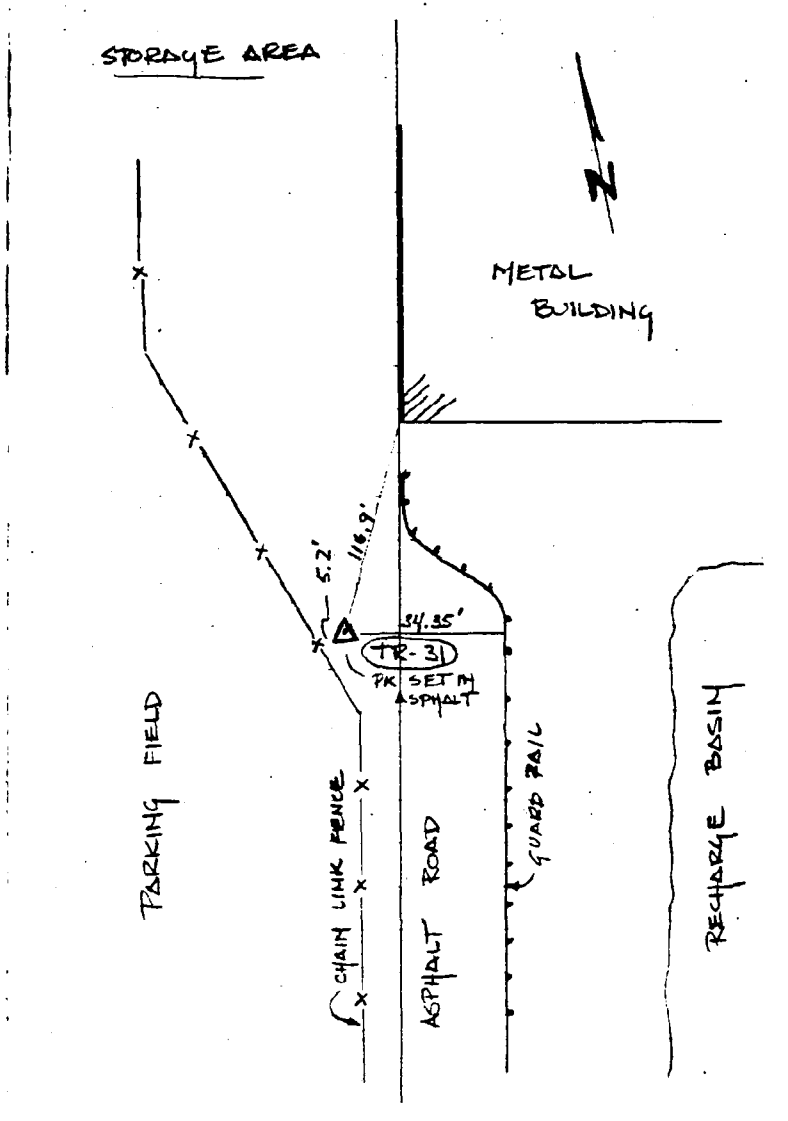
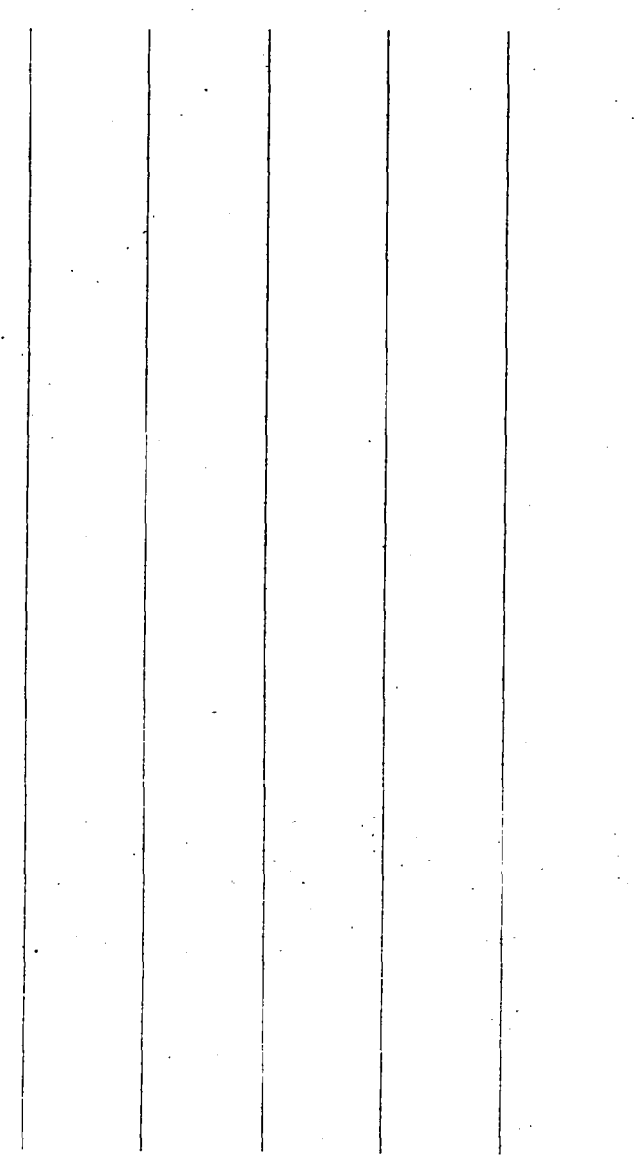
RECHARGE  
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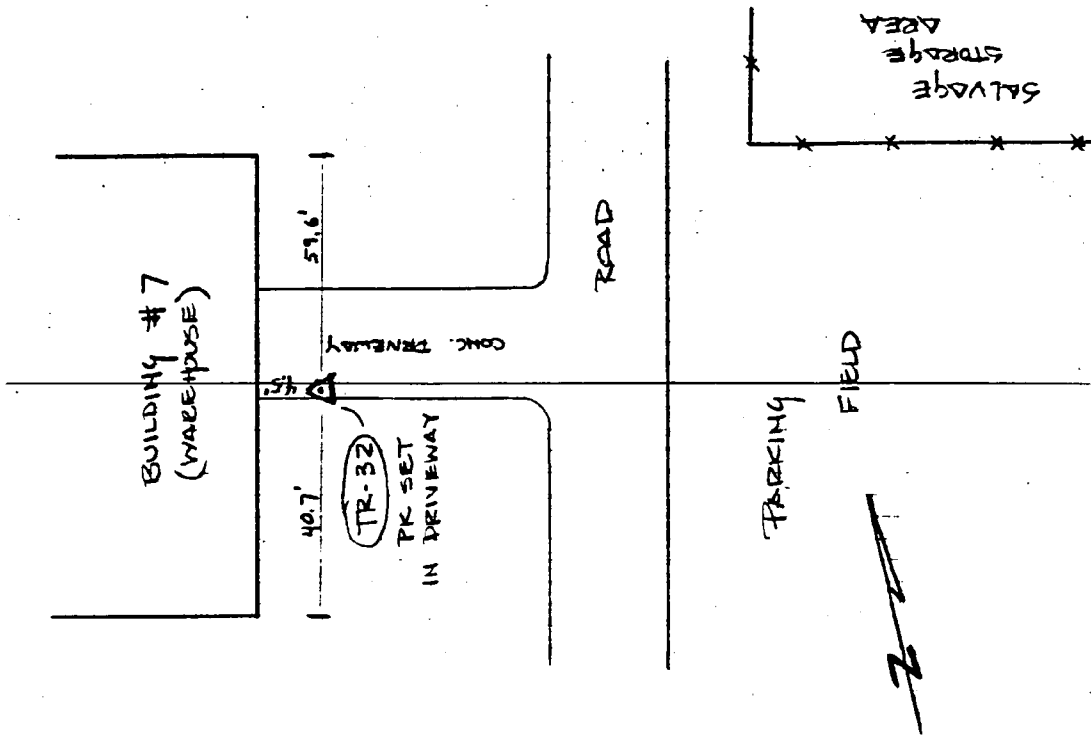
DR ROAD

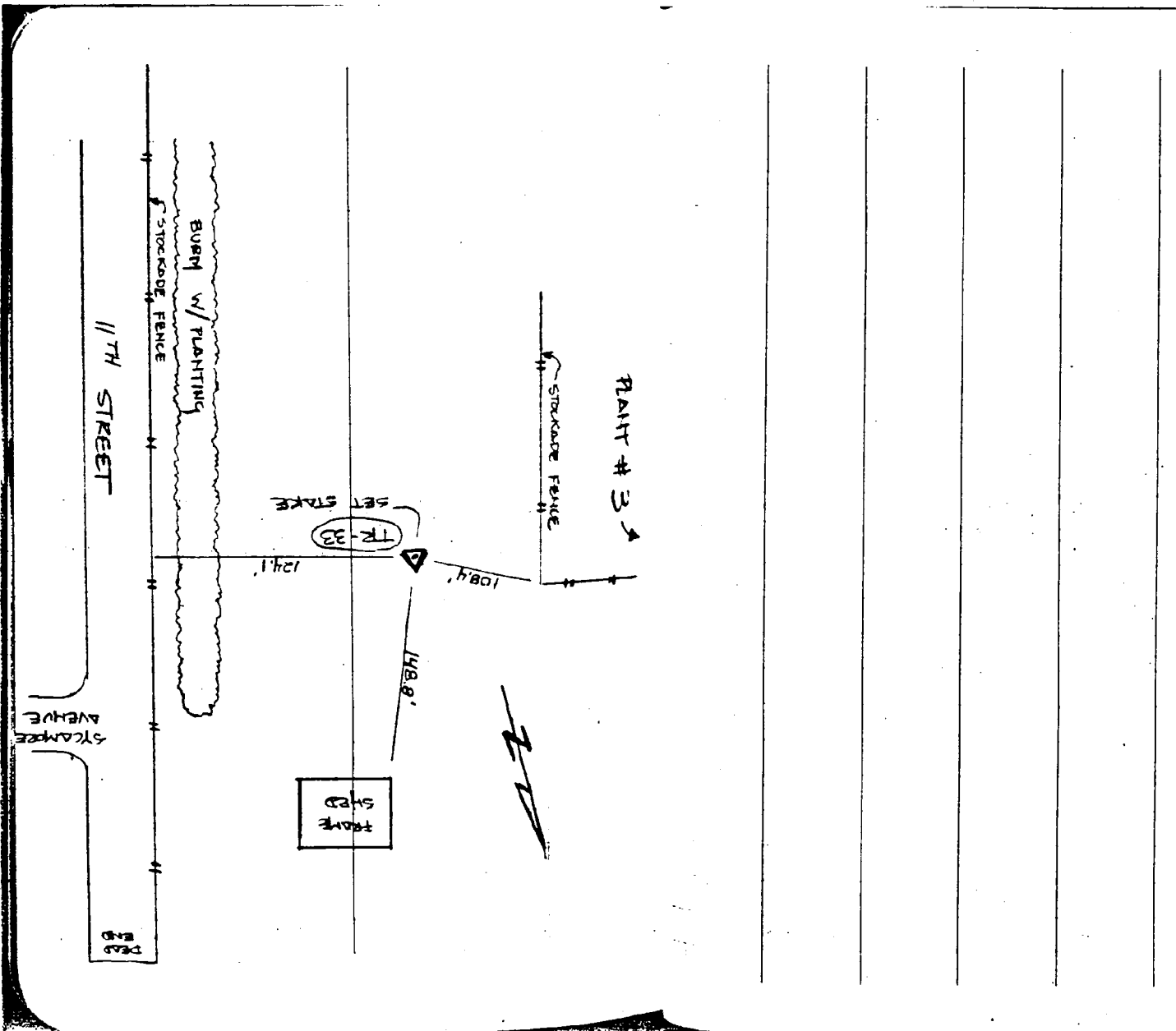
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GUIMMANS PROPERTY  
BURN W/ PLANNING

STOCKADE FENCE

CORNER CURB

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4 4 2

11TH STREET

TR 12

CORNER CURB

DEED  
END

RESIDENTIAL  
AREA



STAMPRE AVE



BENCH MARKS USED

• 13 S 11 — I 20 PLANNEN, 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 INTER-  
SECTION 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 24 D	125.91	127.08	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	127.16	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 LOCATION'S	
<u>GAS POINT NUMBER</u>	<u>ELEV.</u>		<u>NORTHING</u>	<u>EASTING</u>
59 103	125.95		194811	2142856
59 104	123.15		194428	2143826
59 105	124.35		194710	2142913
59 106	124.02		194576	2142967
59 110	123.38		194267	2142731
59 111	125.88		194760	2142579
59 112	124.73		194626	2142614
59 113	125.52		194760	2142761
59 115	123.65		194481	2142904
59 117	123.04		194403	2142957
59 119	124.78		194633	2142813

<u>GAS POINT NUMBER</u>	<u>ELEV.</u>	<u>NORTHING</u>	<u>EASTING</u>
59 120	124.85	194644	2142744
59 121	124.17	194517	2142799
59 122	123.34	194425	2142917
59 123	122.86	194419	2142977
59 124	123.72	194498	2143000
59 202	128.68	195837	2142925
59 203	128.11	195774	2142692
59 206	127.90	195451	2142328
59 207	126.84	195172	2142263
59 208	129.00		

<u>GRID POINT NUMBER</u>	<u>ELEV.</u>	<u>NORTHING</u>	<u>EASTING</u>
59 210	128.29	195023	2142681
59 211	129.20	195155	2142694
59 213	130.09	195387	2142556
59 214	129.17	195550	2142696
59 215	128.30	195403	2142913
59 216	128.89	195418	2142523
59 217	129.56	195525	2142823
59 218	128.47	195038	2143002
59 219	128.59	195089	2142967
59 220	128.09	195763	2143058
59 221	128.13	195624	2143064
59 222	129.22	195534	

CONTINUED

<u>1100 POINT NUMBER</u>	<u>ELEV.</u>	<u>NORTHING</u>	<u>EASTING</u>
59 225	126.92	195455	2143147
59 226	129.05	195367	2143101
59 227	126.82	195312	2143203
59 228	128.07	195213	2143143
59 303	125.17	194861	2142292
59 304	127.66	195396	2142153
59 305	125.05	195006	2142254
59 306	126.36	195259	2142176
59 307	125.88	195209	2142073
59 308	125.33	195114	2142223
59 309	125.38	195126	2141929



<u>POINT NUMBER</u>	<u>ELEV.</u>	<u>NORTHING</u>	<u>EASTING</u>
59 310	124.47	195085	2142116
59 311	125.81	195715	2141768
59 312	124.15	194976	2142146
59 313	127.03	195036	2141622
59 314	124.69	194833	2142180
59 315	127.85	195358	2142027
59 316 A	125.00	194741	2141882
59 316	125.04	194740	2141882
59 317	126.88	194657	2141563
59 318	124.72	194869	2141856
59 319	126.44	194769	2141527

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<u>GAS POINT NUMBER</u>	<u>ELEV.</u>	<u>NORTHING</u>	<u>EASTING</u>
59 320	124.58	194992	2141811
59 321	126.17	194890	2141491
59 322	124.70	195038	2141952
59 325	127.96	195305	2141859
59 326	126.14	194793	2142057
59 327	128.00	195260	2141704
59 328 A	125.81	194684	2141715
59 328	125.86	194685	2141718
59 329	128.37	195217	2141570
59 334	125.32	194815	2141681
59 336	125.20	194941	2141645

<u>WAS POINT NUMBER</u>	<u>ELEV.</u>	<u>NORTHING</u>	<u>EASTING</u>
59 330	127.27	195017	2141452
59 340	128.27	195157	2141410
59 341	125.38	194807	2141918
59 342	125.14	194774	2141776
59 343	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		
		195732	2142820		
		774	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

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**G**

**APPENDIX G**

**HYDROGEOLOGICAL CALCULATIONS**

**G.1 - AVERAGE HYDRAULIC GRADIENTS**

**G.2 - AVERAGE LINEAR VELOCITY**



G.1

**AVERAGE HYDRAULIC GRADIENTS**



CLIENT: BETHPAGE	FILE NO.: 3281	BY: D. Yost	PAGE   OF
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.

$$\begin{array}{r} \text{GM-8S} - 75.14 \text{ FEET} \\ \text{GM-13S} - 72.67 \text{ FEET} \\ \hline 2.47 \text{ FEET} \end{array}$$

HYDRAULIC GRADIENT =

$$\frac{\text{POTENTIOMETRIC SURFACE (WELL \#1)} - \text{POTENTIOMETRIC SURFACE (WELL \#2)}}{\text{DISTANCE BETWEEN WELLS}}$$

MEASURED DISTANCE BETWEEN GM-8S AND GM-13S = 2375'

$$\frac{2.47'}{2375'} = .001 = K = \text{HYDRAULIC GRADIENT}$$

$$.001 \times \frac{5280 \text{ FT}}{\text{MILE}} = 5.28 \frac{\text{FT}}{\text{MILE}} \approx 5.3 \frac{\text{FT}}{\text{MILE}}$$

AVERAGE HYDRAULIC GRADIENT IN MAGATHY FORMATION CAN BE CALCULATED IN THE SAME MANNER AS ABOVE USING WELLS GM-8I AND GM-13I.

$$\begin{array}{r} \text{GM-8I} - 74.64' \\ \text{GM-13I} - 71.90' \\ \hline 2.74' \end{array}$$

$$\frac{2.74'}{2375'} = 0.001 = K = \text{HYDRAULIC GRADIENT}$$

$$.001 \times \frac{5280 \text{ FT}}{\text{MILE}} = 5.28 \frac{\text{FT}}{\text{MILE}} \approx 5.3 \frac{\text{FT}}{\text{MILE}}$$



CLIENT: NWRP BETHPAGE	FILE NO.: 3281	BY: D. YOST	PAGE   OF   1   1
SUBJECT: AVERAGE LINEAR VELOCITY		CHECKED BY:	DATE: 1-31-92

$$\text{AVERAGE LINEAR VELOCITY} = \frac{K}{A_c} i = V$$

WHERE V = AVERAGE LINEAR VELOCITY  
 K = HYDRAULIC CONDUCTIVITY  
 A<sub>c</sub> = EFFECTIVE POROSITY  
 i = HYDRAULIC GRADIENT

FOR GLACIAL DEPOSITS:

$$K = 268 \text{ FT/DAY (IB, 1966; M+F, 1972)}$$

$$A_c = 0.3 \text{ (FETTER, 1988)}$$

$$i = 0.001 \text{ (SEE APPENDIX H.1 FOR CALCULATIONS)}$$

$$V = \frac{(268 \frac{\text{FT}}{\text{DAY}})(0.001)}{0.3} = 0.89 \approx 0.9 \text{ FT/DAY}$$

FOR MAGOTHY FORMATION:

$$K = 56 \text{ FT/DAY (G+M, 1990; IB, 1966; M+F, 1972)}$$

$$A_c = 0.3 \text{ (FETTER, 1988)}$$

$$i = 0.001 \text{ (SEE APPENDIX H.1 FOR CALCULATIONS)}$$

$$V = \frac{(56 \text{ FT/DAY})(0.001)}{0.3} = 0.19 \approx 0.2 \text{ FT/DAY}$$