



# Suffolk County Water Authority Laboratory Production Well Results Above Reporting Limits

Location: **WATCH HILL #1 S-51461**

Karen Randazzo, Director  
NY Lab Id No: 10311  
EPA Lab code: NY00014

Report Range From: 01/01/10 to 12/02/10

'WATCH HILL #1 S-51461'

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Report run on: December 2, 2010 2:43 PM

## Well WATCH HILL #1 S-51461

Method 140.1 (VERSION 1)

Sample ID Date Time HrsOp Coll by Collection Point Prod/BTW							Threshold Odor TON
201068510	01/19/10	1250	0 + 20	1932	RAW/HOP	PROD	Absence
201107052	04/19/10	1120	0 + 10	1932	RAW/HOP	PROD	Absence
201155028	07/22/10	1300	0 + 10	1932	RAW/HOP	PROD	Absence
201197714	10/19/10	1205	0 + 10	1932	RAW/HOP	PROD	Absence

## Well WATCH HILL #1 S-51461

Method 200.7 (VERSION 1)

Sample ID Date Time HrsOp Coll by Collection Point Prod/BTW							Calcium mg/l	Hardness, Calc. mg/l	Iron mg/l	Magnesium mg/l	Phosphorus (as t-PO4) mg/l	Potassium mg/l	Sodium mg/l	Titanium ug/l
201068510	01/19/10	1250	0 + 20	1932	RAW/HOP	PROD			0.429*		0.293	3.32	8.68	5.60
201101960	04/07/10	1015	0 + 15	1932	STA TRE	PROD	1.66	4.56	0.509*		4.62	3.19	19.0	8.06
201107048	04/19/10	1115	0 + 10	1932	STA TRE	PROD	1.49	4.25	0.503*		4.26	3.41	18.7	10.5
201107052	04/19/10	1120	0 + 10	1932	RAW/HOP	PROD			0.472*		0.307	3.41	8.86	7.35
201114070	05/03/10	1150	0 + 20	1932	STA TRE	PROD	1.27	3.61	0.458*		2.33	3.39	17.9	8.04
201128721	06/01/10	1035	0 + 15	1932	STA TRE	PROD	1.34	3.89	0.429*		1.89	3.37	17.8	7.26
201145012	07/08/10	1040	0 + 20	1932	STA TRE	PROD	1.76	4.76	0.407*		2.44	3.36	18.5	
201155028	07/22/10	1300	0 + 10	1932	RAW/HOP	PROD	1.86	5.25	0.480*		0.317	3.46	9.07	6.26
201161045	08/04/10	1150	0 + 10	1942	STA TRE	PROD	2.39	6.47	0.417*		0.426	3.35	16.8	6.90
201179652	09/08/10	1315	0 + 15	1932	STA TRE	PROD	3.47	8.97	0.427*		2.07	3.29	20.6	
201193221	10/04/10	1110	0 + 10	1932	STA TRE	PROD	2.29	6.03	0.465*		2.38	3.43	19.7	7.88
201197714	10/19/10	1205	0 + 10	1932	RAW/HOP	PROD			0.410*		0.295	3.30	9.00	
201197254	10/19/10	1215	0 + 15	1932	STA TRE	PROD	1.61	4.57	0.421*		2.42	3.42	19.2	
201206064	11/04/10	1145	0 + 10	1932	STA TRE	PROD	3.21	8.81	0.412*	0.194	2.45	3.26	18.3	



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## Well WATCH HILL #1 S-51461

Method 200.8 LONG (VERSION 1)

							Aluminum mg/l	Calcium mg/l	Iron mg/l	Lithium ug/l	Phosphorus (as t-PO4) mg/l	Potassium mg/l	Silicon mg/l	Sodium mg/l	Titanium ug/l
Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW									
201068510	01/19/10	1250	0 + 20	1932	RAW/HOP	PROD	0.188		0.423*	6.46	0.282	3.39	4.62	8.61	8.84
201107048	04/19/10	1115	0 + 10	1932	STA TRE	PROD	0.255	1.31	0.471*	6.40	4.58	3.46	4.99	17.8	10.3
201107052	04/19/10	1120	0 + 10	1932	RAW/HOP	PROD	0.183		0.437*	6.20	0.268	3.40	4.79	8.38	9.10
201155028	07/22/10	1300	0 + 10	1932	RAW/HOP	PROD	0.115		0.444*	6.71	0.274	3.38	4.70	8.89	5.55
201197714	10/19/10	1205	0 + 10	1932	RAW/HOP	PROD			0.408*	6.36	0.272	3.27	4.51	8.35	
201197254	10/19/10	1215	0 + 15	1932	STA TRE	PROD		1.61	0.401*	6.47	2.53	3.33	4.58	18.4	

## Well WATCH HILL #1 S-51461

Method 300.0 (VERSION 2)

							Chlorate mg/l	Chloride mg/l	Sulfate mg/l
Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW			
201068510	01/19/10	1250	0 + 20	1932	RAW/HOP	PROD		3.79	4.23
201118938	04/29/10	1345	0 + 3	1942	STA TRE	PROD	1.67	6.17	4.42
201117188	05/03/10	1100	0 + 10	1932	RAW/HOP	PROD		3.58	4.36
201168729	08/04/10	1110	0 + 10	1942	RAW/HOP	PROD		3.68	4.32
201197714	10/19/10	1205	0 + 10	1932	RAW/HOP	PROD		3.38	4.35
201197254	10/19/10	1215	0 + 15	1932	STA TRE	PROD	0.620	4.82	4.17

## Well WATCH HILL #1 S-51461

Method 331.0 (VERSION 1)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW
201068513	01/19/10	1250	0 + 20	1932	RAW/HOP	PROD
201107055	04/19/10	1120	0 + 10	1932	RAW/HOP	PROD
201155031	07/22/10	1300	0 + 10	1932	RAW/HOP	PROD
201199677	10/19/10	1205	0 + 10	1932	RAW/HOP	PROD



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## Well WATCH HILL #1 S-51461

Method 350.1 (VERSION 1)

							Ammonia mg/l
Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW	
201068510	01/19/10	1250	0 + 20	1932	RAW/HOP	PROD	0.0220
201107052	04/19/10	1120	0 + 10	1932	RAW/HOP	PROD	
201155028	07/22/10	1300	0 + 10	1932	RAW/HOP	PROD	
201197714	10/19/10	1205	0 + 10	1932	RAW/HOP	PROD	0.0207

## Well WATCH HILL #1 S-51461

Method 505 (CHLORDANE TOTAL) (VERSION 1)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW
201070970	02/01/10	1135	0 + 10	1932	RAW/HOP	PROD
201114069	05/03/10	1140	0 + 10	1932	RAW/HOP	PROD
201163321	08/04/10	1110	0 + 10	1942	RAW/HOP	PROD
201199678	11/04/10	1145	0 + 10	1932	RAW/HOP	PROD

## Well WATCH HILL #1 S-51461

Method 505 (PCB) (VERSION 1)

							PCB Screen Aroclor 1016	PCB Screen Aroclor 1221	PCB Screen Aroclor 1232	PCB Screen Aroclor 1242	PCB Screen Aroclor 1248	PCB Screen Aroclor 1254	PCB Screen Aroclor 1260
Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW							
201070970	02/01/10	1135	0 + 10	1932	RAW/HOP	PROD	Absence	Absence	Absence	Absence	Absence	Absence	Absence
201114069	05/03/10	1140	0 + 10	1932	RAW/HOP	PROD	Absence	Absence	Absence	Absence	Absence	Absence	Absence
201163321	08/04/10	1110	0 + 10	1942	RAW/HOP	PROD	Absence	Absence	Absence	Absence	Absence	Absence	Absence
201199678	11/04/10	1145	0 + 10	1932	RAW/HOP	PROD	Absence	Absence	Absence	Absence	Absence	Absence	Absence



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## Well WATCH HILL #1 S-51461

Method 505 (VERSION 1)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW
201070970	02/01/10	1135	0 + 10	1932	RAW/HOP	PROD
201114069	05/03/10	1140	0 + 10	1932	RAW/HOP	PROD
201163321	08/04/10	1110	0 + 10	1942	RAW/HOP	PROD
201199678	11/04/10	1145	0 + 10	1932	RAW/HOP	PROD

## Well WATCH HILL #1 S-51461

Method 515.3 (VERSION 1)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW
201070970	02/01/10	1135	0 + 10	1932	RAW/HOP	PROD
201114069	05/03/10	1140	0 + 10	1932	RAW/HOP	PROD
201163321	08/04/10	1110	0 + 10	1942	RAW/HOP	PROD
201199678	11/04/10	1145	0 + 10	1932	RAW/HOP	PROD

## Well WATCH HILL #1 S-51461

Method 521 (VERSION 1)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW
201068621	01/19/10	1255	0 + 25	1932	STA TRE	PROD
201068505	06/02/10	1225	0 + 20	1363	STA TRE	PROD



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## Well WATCH HILL #1 S-51461

Method 522 (VERSION 1)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW
201068510	01/19/10	1250	0 + 20	1932	RAW/HOP	PROD
201107052	04/19/10	1120	0 + 10	1932	RAW/HOP	PROD
201155028	07/22/10	1300	0 + 10	1932	RAW/HOP	PROD
201197714	10/19/10	1205	0 + 10	1932	RAW/HOP	PROD

## Well WATCH HILL #1 S-51461

Method 524.2 (VERSION 1)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW
201063478	01/11/10	1330	1 + 0	1363	RAW/HOP	PROD
201068508	01/19/10	1250	0 + 20	1932	RAW/HOP	PROD
201107050	04/19/10	1120	0 + 10	1932	RAW/HOP	PROD
201155026	07/22/10	1300	0 + 10	1932	RAW/HOP	PROD
201199673	10/19/10	1205	0 + 10	1932	RAW/HOP	PROD

## Well WATCH HILL #1 S-51461

Method 525.2 (VERSION 1)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW
201068621	01/19/10	1255	0 + 25	1932	STA TRE	PROD
201070970	02/01/10	1135	0 + 10	1932	RAW/HOP	PROD
201114069	05/03/10	1140	0 + 10	1932	RAW/HOP	PROD
201139365	06/10/10	1100	0 + 15	1932	STA TRE	PROD
201163321	08/04/10	1110	0 + 10	1942	RAW/HOP	PROD
201199678	11/04/10	1145	0 + 10	1932	RAW/HOP	PROD



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## Well WATCH HILL #1 S-51461

Method 526 (VERSION 1)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW
201068510	01/19/10	1250	0 + 20	1932	RAW/HOP	PROD
201107052	04/19/10	1120	0 + 10	1932	RAW/HOP	PROD

## Well WATCH HILL #1 S-51461

Method 527 (VERSION 1)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW
201068620	01/19/10	1255	0 + 25	1932	STA TRE	PROD
201068506	06/02/10	1225	0 + 20	1363	STA TRE	PROD

## Well WATCH HILL #1 S-51461

Method 529 (VERSION 1)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW
201068620	01/19/10	1255	0 + 25	1932	STA TRE	PROD
201068506	06/02/10	1225	0 + 20	1363	STA TRE	PROD

## Well WATCH HILL #1 S-51461

Method 531.2 (VERSION 2)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW
201068512	01/19/10	1250	0 + 20	1932	RAW/HOP	PROD
201107054	04/19/10	1120	0 + 10	1932	RAW/HOP	PROD
201155030	07/22/10	1300	0 + 10	1932	RAW/HOP	PROD
201199676	10/19/10	1205	0 + 10	1932	RAW/HOP	PROD



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## Well WATCH HILL #1 S-51461

Method 535 (VERSION 1)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW
201068621	01/19/10	1255	0 + 25	1932	STA TRE	PROD
201070970	02/01/10	1135	0 + 10	1932	RAW/HOP	PROD
201114069	05/03/10	1140	0 + 10	1932	RAW/HOP	PROD
201068505	06/02/10	1225	0 + 20	1363	STA TRE	PROD
201139365	06/10/10	1100	0 + 15	1932	STA TRE	PROD
201163321	08/04/10	1110	0 + 10	1942	RAW/HOP	PROD
201199678	11/04/10	1145	0 + 10	1932	RAW/HOP	PROD

## Well WATCH HILL #1 S-51461

Method 547 (VERSION 1)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW
201070970	02/01/10	1135	0 + 10	1932	RAW/HOP	PROD
201114069	05/03/10	1140	0 + 10	1932	RAW/HOP	PROD
201163321	08/04/10	1110	0 + 10	1942	RAW/HOP	PROD
201199678	11/04/10	1145	0 + 10	1932	RAW/HOP	PROD

## Well WATCH HILL #1 S-51461

Method 548.1 (VERSION 1)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW
201070970	02/01/10	1135	0 + 10	1932	RAW/HOP	PROD
201114069	05/03/10	1140	0 + 10	1932	RAW/HOP	PROD
201163321	08/04/10	1110	0 + 10	1942	RAW/HOP	PROD
201199678	11/04/10	1145	0 + 10	1932	RAW/HOP	PROD



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## Well WATCH HILL #1 S-51461

Method 549.2 (VERSION 1)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW
201070970	02/01/10	1135	0 + 10	1932	RAW/HOP	PROD
201114069	05/03/10	1140	0 + 10	1932	RAW/HOP	PROD
201163321	08/04/10	1110	0 + 10	1942	RAW/HOP	PROD
201199678	11/04/10	1145	0 + 10	1932	RAW/HOP	PROD

## Well WATCH HILL #1 S-51461

Method 551.1 (VERSION 1)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW
201068511	01/19/10	1250	0 + 20	1932	RAW/HOP	PROD
201107053	04/19/10	1120	0 + 10	1932	RAW/HOP	PROD
201155029	07/22/10	1300	0 + 10	1932	RAW/HOP	PROD
201199675	10/19/10	1205	0 + 10	1932	RAW/HOP	PROD

## Well WATCH HILL #1 S-51461

Method 81.9 SCREENING TEST

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW	Toxicity EFFECT
201107048	04/19/10	1115	0 + 10	1932	STA TRE	PROD	Negative
201197254	10/19/10	1215	0 + 15	1932	STA TRE	PROD	Negative

## Well WATCH HILL #1 S-51461

Method 900.0 (ALPHA) (VERSION 1)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW
201076183	03/25/10	1035	0 + 10	1932	RAW/HOP	PROD
201116406	05/03/10	1140	0 + 10	1932	RAW/HOP	PROD





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## Well WATCH HILL #1 S-51461

Method 900.0 (BETA) (VERSION 1)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW
201076183	03/25/10	1035	0 + 10	1932	RAW/HOP	PROD
201116406	05/03/10	1140	0 + 10	1932	RAW/HOP	PROD

## Well WATCH HILL #1 S-51461

Method OIA-1677 (FREE) (VERSION 1)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW
201068510	01/19/10	1250	0 + 20	1932	RAW/HOP	PROD
201107052	04/19/10	1120	0 + 10	1932	RAW/HOP	PROD
201155028	07/22/10	1300	0 + 10	1932	RAW/HOP	PROD
201197714	10/19/10	1205	0 + 10	1932	RAW/HOP	PROD

## Well WATCH HILL #1 S-51461

Method PRODUCTION CONTROL (BACT ONLY)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW	Atypical Colonies noted on MF	Enterococci 100ml	Total Coliform Qualitative MF 100ml	pH pH Units
201059669	01/11/10	1330	1 + 0	1363	RAW/HOP	PROD	NONE	Negative	Absence	6.30
201059670	01/11/10	1330	1 + 0	1363	STA TRE	PROD	NONE		Absence	6.80

## Well WATCH HILL #1 S-51461

Method ROUTINE (BACT TREATED)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW	Atypical Colonies noted on MF	pH pH Units	Free Chlorine Residual mg/l	Total Coliform Qualitative MF 100ml	pH pH Units
201068509	01/19/10	1255	0 + 25	1932	STA TRE	PROD	NONE	7.00	0.90	Absence	7.70
201107051	04/19/10	1115	0 + 10	1932	STA TRE	PROD	NONE	7.00	1.10	Absence	7.30
201155027	07/22/10	1300	0 + 10	1932	STA TRE	PROD	NONE	6.50	0.80	Absence	6.90
201199674	10/19/10	1215	0 + 15	1932	STA TRE	PROD	NONE	7.00	1.20	Absence	



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## Well WATCH HILL #1 S-51461

Method ROUTINE (BACT)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW	Atypical Colonies noted on MF	Enterococci 100ml	Total Coliform Qualitative MF 100ml	pH pH Units
201068507	01/19/10	1250	0 + 20	1932	RAW/HOP	PROD	NONE	Negative	Absence	6.50
201107049	04/19/10	1120	0 + 10	1932	RAW/HOP	PROD	NONE	Negative	Absence	6.10
201155025	07/22/10	1300	0 + 10	1932	RAW/HOP	PROD	NONE	Negative	Absence	6.40
201199672	10/19/10	1205	0 + 10	1932	RAW/HOP	PROD	NONE	Negative	Absence	

## Well WATCH HILL #1 S-51461

Method ROUTINE (QUART TREATED)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW	Alkalinity mg/l	CO2, calc mg/l	Color Color Units	Conductivity umho/cm	pH pH Units	Temperature, field Degrees Celcius	Turbidity NTU	pH pH Units
201142330	06/21/10	1130	0 + 15	1942	STA TRE	PROD	36.2	5.20	10	104		15.5	0.62	7.14
201197254	10/19/10	1215	0 + 15	1932	STA TRE	PROD	38.2	4.10	9	108	7.00	15.0	0.55	7.27

## Well WATCH HILL #1 S-51461

Method ROUTINE (QUART)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW	CO2, calc mg/l	Color Color Units	Conductivity umho/cm	Turbidity NTU	pH pH Units
201068510	01/19/10	1250	0 + 20	1932	RAW/HOP	PROD	9.10	14	59	1.15	6.60
201107052	04/19/10	1120	0 + 10	1932	RAW/HOP	PROD	13.1	8	57	1.38	6.42
201155028	07/22/10	1300	0 + 10	1932	RAW/HOP	PROD	13.8	7	59	0.81	6.40
201197714	10/19/10	1205	0 + 10	1932	RAW/HOP	PROD	17.0	7	59	1.01	6.31

## Well WATCH HILL #1 S-51461

Method SM18-204500HB FIELD (VERSION 1)

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW	pH pH Units
201059670	01/11/10	1330	1 + 0	1363	STA TRE	PROD	7.50



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Blank Line - No Detections above RL's

Report run on: December 2, 2010 2:43 PM

## Well WATCH HILL #1 S-51461

Method **SM184500CLG (VERSION 1)**

							Free Chlorine Residual mg/l
Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW	
201059670	01/11/10	1330	1 + 0	1363	STA TRE	PROD	1.10

## Well WATCH HILL #1 S-51461

Method **SM5310C (VERSION 1)**

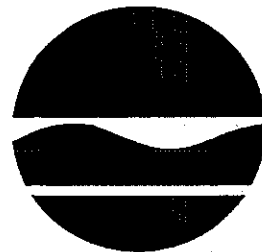
							Total Organic Carbon (TOC) mg/l
Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW	
201107048	04/19/10	1115	0 + 10	1932	STA TRE	PROD	DNCCARB
201197254	10/19/10	1215	0 + 15	1932	STA TRE	PROD	DNCCARB

## Well WATCH HILL #1 S-51461

Method **SM5540C (VERSION 1)**

Sample ID	Date	Time	HrsOp	Coll by	Collection Point	Prod/BTW
201068510	01/19/10	1250	0 + 20	1932	RAW/HOP	PROD
201107052	04/19/10	1120	0 + 10	1932	RAW/HOP	PROD
201155028	07/22/10	1300	0 + 10	1932	RAW/HOP	PROD
201197714	10/19/10	1205	0 + 10	1932	RAW/HOP	PROD

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Division of Fish, Wildlife & Marine Resources**  
**New York Natural Heritage Program**  
625 Broadway, 5<sup>th</sup> Floor, Albany, New York 12233-4757  
**Phone:** (518) 402-8935 • **Fax:** (518) 402-8925  
**Website:** [www.dec.ny.gov](http://www.dec.ny.gov)



November 12, 2010

Kelly Risotto  
Land Use Ecological Services, Inc  
570 Expressway Drive South, Suite 2 F  
Medford, NY 11763

Dear Ms. Risotto:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to an Environmental Assessment of the proposed Watch Hill Public Well Replacement, on Fire Island, site as indicated on the map you provided, located in the Town of Brookhaven, Suffolk County.

Enclosed is a report of rare or state-listed animals and plants, significant natural communities, and other significant habitats, which our databases indicate occur, or may occur, on your site or in the immediate vicinity of your site. For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our databases. We cannot provide a definitive statement as to the presence or absence of all rare or state-listed species or natural communities. This information should not be substituted for on-site surveys that may be required for environmental impact assessment.

The enclosed report may be included in documents that will be available to the public. However, any enclosed maps displaying locations of rare species are considered sensitive information, and are intended only for the internal use of the recipient; they should not be included in any document that will be made available to the public, without permission from the New York Natural Heritage Program.

The presence of the plants and animals identified in the enclosed report may result in this project requiring additional review or permit conditions. For further guidance, and for information regarding other permits that may be required under state law for regulated areas or activities (e.g. regulated wetlands), please contact the appropriate NYS DEC Regional Office, Division of Environmental Permits, as listed at [www.dec.ny.gov/about/39381.html](http://www.dec.ny.gov/about/39381.html).

# 1156

This project location is adjacent to a designated Significant Coastal Fish and Wildlife Habitat. This habitat is part of New York State's Coastal Management Program (CMP), which is administered by the NYS Department of State (DOS). Projects which may impact the habitat are reviewed by DOS for consistency with the CMP. For more information regarding this designated habitat and applicable consistency review requirements, please contact:

Jeff Zappieri - (518) 474-6000  
NYS Department of State  
Office Coastal, Local Government and Community Sustainability  
1 Commerce Plaza, 99 Washington Avenue,  
Albany, NY 12231

Our databases are continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

Sincerely,

  
Tara Salerno, Information Services  
New York Natural Heritage Program

Enc.

cc: Reg. 1

# 1156

[Type text]

## Natural Heritage Report on Rare Species and Ecological Communities



NY Natural Heritage Program, NYS DEC, 625 Broadway, 5th Floor, Albany, NY  
12233-4757  
(518) 402-8935

~The information in this report includes only records entered into the NY Natural Heritage databases as of the date of the report. This report is not a definitive statement on the presence or absence of all rare species or significant natural communities at or in the vicinity of this site.

~Refer to the User's Guide for explanations of codes, ranks and fields.

~Location maps for certain species and communities may not be provided 1) if the species is vulnerable to disturbance, 2) if the location and/or extent is not precisely known, 3) if the location and/or extent is too large to display, and/or 4) if the animal is listed as Endangered or Threatened by New York State.

## Natural Heritage Report on Rare Species and Ecological Communities



### BIRDS

#### *Charadrius melodus*

Piping Plover	NY Legal Status: Endangered	NYS Rank: S3B - Vulnerable	Office Use 9303
Breeding	Federal Listing: Endangered/Threatened	Global Rank: G3 - Vulnerable	ESU
	Last Report: **	EO Rank: **	
	County: Suffolk		
	Town: Brookhaven		
	Location: At, or in the vicinity of, the project site.		
	General Quality and Habitat: **For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager for the Region where the project is located.		

#### *Charadrius melodus*

Piping Plover	NY Legal Status: Endangered	NYS Rank: S3B - Vulnerable	Office Use 4472
Breeding	Federal Listing: Endangered/Threatened	Global Rank: G3 - Vulnerable	ESU
	Last Report: **	EO Rank: **	
	County: Suffolk		
	Town: Brookhaven		
	Location: At, or in the vicinity of, the project site.		
	General Quality and Habitat: **For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager for the Region where the project is located.		

#### *Sterna hirundo*

Common Tern	NY Legal Status: Threatened	NYS Rank: S3B - Vulnerable	Office Use 6593
Breeding	Federal Listing: **	Global Rank: G5 - Secure	ESU
	Last Report: **	EO Rank: **	
	County: Suffolk		
	Town: Brookhaven		
	Location: At, or in the vicinity of, the project site.		
	General Quality and Habitat: **For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager for the Region where the project is located.		

*Sternula antillarum*(formerly *Sterna antillarum*)Least Tern  
Breeding

NY Legal Status: Threatened

Federal Listing:

Last Report: \*\*

County: Suffolk

Town: Brookhaven

Location: At, or in the vicinity of, the project site.

General Quality and Habitat: \*\*For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager for the Region where the project is located.

NYS Rank: S3B - Vulnerable

Global Rank: G4 - Apparently secure

EO Rank: \*\*

Office Use  
5692  
ESU*Sternula antillarum*(formerly *Sterna antillarum*)Least Tern  
Breeding

NY Legal Status: Threatened

Federal Listing:

Last Report: \*\*

County: Suffolk

Town: Brookhaven

Location: At, or in the vicinity of, the project site.

General Quality and Habitat: \*\*For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager for the Region where the project is located.

NYS Rank: S3B - Vulnerable

Global Rank: G4 - Apparently secure

EO Rank: \*\*

Office Use  
7157  
ESU

## COMMUNITIES

## High salt marsh

This occurrence of High Salt Marsh is considered significant from a statewide perspective by the NY Natural Heritage Program. It is either an occurrence of a community type that is rare in the state or a high quality example of a more common community type. By meeting specific, documented significance criteria, the NY Natural Heritage Program considers this occurrence to have high ecological and conservation value.

NY Legal Status: Unlisted

Federal Listing:

Last Report: 1998-09-18

County: Suffolk

Town: Brookhaven

Location: Fire Island Wilderness

General Quality and Habitat: This is a large complex of marsh barrier beach segments with minimal to marginal ditching disturbance and minimal disruption to overwash and other dynamic processes. Human disturbance on marsh is minimal although it can be heavy in some adjacent and nearby communities. The community is located in a 545 acre salt marsh complex formed on an extensive barrier beach complex stretching from Smith Point west to Davis Park. This segment is part of a larger barrier complex forming south shore of Long Island from Shinnecock Bay west to Coney Island. The community is formed at the bay side (lagoon side) and is classified as back barrier marsh or a flood tidal delta marsh on some islands (Oertel and Woo 1994). The high salt marsh covers about 375 acres and is primarily developed on broad relict inlet flood deltas (Jones 1981) and to some extent on storm overwash deposits (Clark 1986) and/or complexes of these landforms (Clark 1986).

NYS Rank: S3S4

Global Rank: G4

EO Rank:

Office Use  
3614  
S

**Salt shrub**

This occurrence of Salt Shrub is considered significant from a statewide perspective by the NY Natural Heritage Program. It is either an occurrence of a community type that is rare in the state or a high quality example of a more common community type. By meeting specific, documented significance criteria, the NY Natural Heritage Program considers this occurrence to have high ecological and conservation value.

Office Use

**NY Legal Status:** Unlisted**NYS Rank:** S4

3677

**Federal Listing:****Global Rank:** G5**Last Report:** 1998-09-18**EO Rank:****County:** Suffolk

S

**Town:** Brookhaven**Location:** Fire Island Wilderness

**General Quality and Habitat:** This is a large salt shrub in a dynamic, relatively intact barrier beach. The community is degraded by *Phragmites australis* invasion, but contains relatively intact natural processes, good connectivity and harbors some rare elements, such as *Helianthus angustifolius* and *Sabatia stellaris*. The community is located in a 545 acre salt marsh complex formed on an extensive barrier beach complex stretching from Smith Point west to Davis Park. This segment is part of a larger barrier complex forming the south shore of Long Island from Shinnecock Bay west to Coney Island. Salt shrub covers about 50 acres and is primarily developed on broad relict inlet flood deltas (Jones 1981) and to some extent storm overwash deposits (Clark 1986), and or complexes of these landforms (Clark 1986). Additionally, the community is also formed on the marshward edge of some encroaching dunes.

**Salt panne**

This occurrence of Salt Panne is considered significant from a statewide perspective by the NY Natural Heritage Program. It is either an occurrence of a community type that is rare in the state or a high quality example of a more common community type. By meeting specific, documented significance criteria, the NY Natural Heritage Program considers this occurrence to have high ecological and conservation value.

Office Use

**NY Legal Status:** Unlisted**NYS Rank:** S3

5199

**Federal Listing:****Global Rank:** G3G4**Last Report:** 1998-09-18**EO Rank:****County:** Suffolk

S

**Town:** Brookhaven**Location:** Fire Island Wilderness

**General Quality and Habitat:** The salt pannes are in a good landscape setting. The pannes are ditched, but recovering with good vegetation diversity. The pannes often found with a complex of high marsh as well as panne species. The salt panne is located in a 545 acre salt marsh complex formed on an extensive barrier beach complex stretching from Smith Point west to Davis Park. This segment is part of a larger barrier complex forming the south shore of Long Island from Shinnecock Bay west to Coney Island. The salt marsh complex is formed at the bay-side (lagoon side) and is classified as a back-barrier marsh or a flood tidal delta marsh on some islands (Oertel and Woo 1992). The high marsh is formed on 200-400 m wide patches and is punctuated with islands of salt shrub, salt pannes, and panne-like ponds. The salt pannes form dynamically and appear to change with seasonal weather and storms. Some areas contain active dune encroaching on the high marsh surface.



**Maritime beach**

This occurrence of Maritime Beach is considered significant from a statewide perspective by the NY Natural Heritage Program. It is either an occurrence of a community type that is rare in the state or a high quality example of a more common community type. By meeting specific, documented significance criteria, the NY Natural Heritage Program considers this occurrence to have high ecological and conservation value.

<b>NY Legal Status:</b>	Unlisted	<b>NYS Rank:</b>	S3S4	5364
<b>Federal Listing:</b>		<b>Global Rank:</b>	G5	
<b>Last Report:</b>	2001-09-28	<b>EO Rank:</b>		
<b>County:</b>	Suffolk			
<b>Town:</b>	Babylon, Brookhaven, Islip			
<b>Location:</b>	Fire Island			
<b>General Quality and Habitat:</b>	A 32 mile long maritime beach along the south shore of Fire Island, 7 miles of which is designated as Federal Wilderness Area where driving is not allowed for most of the year. Natural processes are affected by stabilization and nourishment in some areas. A large sandy maritime beach along the south shore of a barrier island. The maritime beach extends 32 miles along the south shore of Fire Island from Democrat Point east to Moriches Inlet. The maritime beach grades into marine intertidal gravel/sand beach oceanward and maritime dunes inland. The island is mostly state, federal, and county owned parkland. A seven mile stretch is Federal Wilderness Area. Several towns with residences occur near the beach for approximately 7 miles from Kismet to Oakleyville and between Cherry Grove and Davis Park. Salt marsh complexes occur along the north shore of the barrier island.			

**VASCULAR PLANTS*****Amaranthus pumilus***

<b>Seabeach Amaranth</b>	<b>NY Legal Status:</b>	Endangered	<b>NYS Rank:</b>	S2 - Imperiled	Office Use 4094
	<b>Federal Listing:</b>	Threatened	<b>Global Rank:</b>	G2 - Imperiled	
	<b>Last Report:</b>	2006-08	<b>EO Rank:</b>	Fair	USFWS
	<b>County:</b>	Suffolk			
	<b>Town:</b>	Brookhaven			
	<b>Location:</b>	Fire Island Wilderness			
	<b>General Quality and Habitat:</b>	There is an average of 42 plants. A barrier beach.			

10 Records Processed

More detailed information about many of the rare and listed animals and plants in New York, including biology, identification, habitat, conservation, and management, are available online in Natural Heritage's Conservation Guides at [www.acris.nynhp.org](http://www.acris.nynhp.org), from NatureServe Explorer at <http://www.natureserve.org/explorer>, from NYSDEC at <http://www.dec.ny.gov/animals/7494.html> (for animals), and from USDA's Plants Database at <http://plants.usda.gov/index.html> (for plants).

More detailed information about many of the natural community types in New York, including identification, dominant and characteristic vegetation, distribution, conservation, and management, is available online in Natural Heritage's Conservation Guides at [www.acris.nynhp.org](http://www.acris.nynhp.org). For descriptions of all community types, go to <http://www.dec.ny.gov/animals/29384.html> and click on Draft Ecological Communities of New York State.

## Natural Heritage Report on Rare Species and Ecological Communities



NY Natural Heritage Program, NYS DEC, 625 Broadway, 5th Floor,  
Albany, NY 12233-4757  
(518) 402-8935

### HISTORICAL RECORDS

The following plants and animals were documented in the vicinity of the project site at one time, but have not been documented there since 1979 or earlier, or there is uncertainty regarding their continued presence. There is no recent information on these plants and animals in the vicinity of the project site and their current status there is unknown. In most cases the precise location of the plant or animal in this vicinity at the time it was last documented is also unknown and therefore location maps are generally not provided. If appropriate habitat for these plants or animals is present in the vicinity of the project site, it is possible that they may still occur there.

## Natural Heritage Report on Rare Species and Ecological Communities



### DRAGONFLIES and DAMSELFLIES

#### *Ischnura ramburii*

<b>Rambur's Forktail</b>	<b>NY Legal Status:</b> Unlisted	<b>NYS Rank:</b> S2 - Imperiled	<b>Office Use</b> 12587
	<b>Federal Listing:</b>	<b>Global Rank:</b> G5 - Secure	
	<b>Last Report:</b> 1913-pre	<b>EO Rank:</b> Historical, no recent information	
	<b>County:</b> Suffolk		
	<b>Town:</b> Babylon, Brookhaven, Islip		
	<b>Location:</b> Fire Island		
	<b>Directions:</b> Fire Island is off the southern coast of Long Island. To access the western part of the island from Islip, take the Robert Moses Causeway south past Captree Island to Fire Island. To access the eastern part of the island, follow Suffolk Boulevard south from Brookhaven across the Smith Point Bridge.		
	<b>General Quality and Habitat:</b> The damselfly was found on an island that is over 3 miles long.		

### VASCULAR PLANTS

#### *Suaeda linearis*

<b>Narrow-leaf Sea-blite</b>	<b>NY Legal Status:</b> Endangered	<b>NYS Rank:</b> S1 - Critically imperiled	<b>Office Use</b> 8747
	<b>Federal Listing:</b>	<b>Global Rank:</b> G5 - Secure	
	<b>Last Report:</b> 1968-10-03	<b>EO Rank:</b> Historical, no recent information	
	<b>County:</b> Suffolk		
	<b>Town:</b> Brookhaven		
	<b>Location:</b> Fire Island Wilderness Watch Hill		
	<b>Directions:</b> Watch Hill salt marshes.		
	<b>General Quality and Habitat:</b> Salt marsh.		

M



## 2 Records Processed

More detailed information about many of the rare and listed animals and plants in New York, including biology, identification, habitat, conservation, and management, are available online in Natural Heritage's Conservation Guides at [www.acris.nynhp.org](http://www.acris.nynhp.org), from NatureServe Explorer at <http://www.natureserve.org/explorer>, from NYSDEC at <http://www.dec.ny.gov/animals/7494.html> (for animals), and from USDA's Plants Database at <http://plants.usda.gov/index.html> (for plants).

**New York State Department of Environmental Conservation**  
**Division of Environmental Permits, Region One**  
**SUNY @ Stony Brook, 50 Circle Road, Stony Brook, NY 11790-3409**  
**Phone: (631) 444-0365 Fax: (631) 444-0360**  
**Website: [www.dec.ny.gov](http://www.dec.ny.gov)**



December 2, 2010

Diane Abell  
Fire Island National Seashore  
120 Laurel Street  
Patchogue, NY 11772

Re: Permit #1-4722-04843/00004

Dear Permittee:

In conformance with the requirements of the State Uniform Procedures Act (Article 70, ECL) and its implementing regulations (6NYCRR, Part 621) we are enclosing your permit identified above. Please carefully read all permit conditions and the schedule contained in the permit carefully to ensure compliance during the term of the permit. If you are unable to comply with any conditions, please contact us at the above address.

This permit must be kept available on the premises of the facility at all times.

Sincerely,

Mark Carrara  
Permit Administrator

cc: D. Picha, DOW  
File

## NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**DEC PERMIT NUMBER**  
1-4722-04843/00004**FACILITY/PROGRAM NUMBER(S)**

WSA-11451

**PERMIT**Under the Environmental  
Conservation Law**EFFECTIVE DATE**  
December 1, 2010**EXPIRATION DATE(S)**

November 30, 2020

TYPE OF PERMIT ☒ New ☐ Renewal ☐ Modification ☐ Permit to Construct ☐ Permit to Operate☐ Article 15, Title 5: Protection of Waters☐ Article 15, Title 15: Water Supply☐ Article 15, Title 15: Water Transport☐ Article 15, Title 15: Long Island Wells☐ Article 15, Title 27: Wild, Scenic and  
Recreational Rivers☐ 6NYCRR 608: Water Quality  
Certification☐ Article 17, Titles 7, 8: SPDES☐ Article 19: Air Pollution Control☐ Article 23, Title 27: Mined Land  
Reclamation☐ Article 24: Freshwater Wetlands☐ Article 25: Tidal Wetlands☐ Article 27, Title 7: 6NYCRR 360:  
Solid Waste Management☐ Article 27, Title 9: 6NYCRR 373:  
Hazardous Waste Management☐ Article 34: Coastal Erosion  
Management☐ Article 38: Floodplain Management☐ Articles 1, 3, 17, 19, 27, 37: 6NYCRR  
380: Radiation Control**PERMIT ISSUED TO**  
U. S. National Park Service**TELEPHONE NUMBER**  
(631) 687-4750**ADDRESS OF PERMITTEE**  
120 Laurel Street, Patchogue, NY 11772**CONTACT PERSON FOR PERMITTED WORK**  
Diane Abell**TELEPHONE NUMBER****NAME AND ADDRESS OF PROJECT/FACILITY**  
Watch Hill Well No 1A Watch Hill, Fire Island National Seashore West end of Watch Hill, 100' North of  
Burma Road, Fire Island**COUNTY**  
Suffolk**TOWN**  
Brookhaven**WETLAND #****NYTM COORDINATES**  
E: N:**DESCRIPTION OF AUTHORIZED ACTIVITY:**

Installation of one (1) 10-inch diameter public water supply well. Watch Hill Well No. 1A shall be constructed to a depth of 465 feet and equipped with a pumping capacity of 200 gallons per minute. Existing Watch Hill Well No. 1 (S-51461) shall be properly sealed and abandoned.

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any **Special Conditions** included as part of this permit.

**DEPUTY PERMIT ADMINISTRATOR:**  
Mark Carrara**ADDRESS**  
Region 1 Headquarters, SUNY @ Stony Brook, 50 Circle  
Road, Stony Brook, NY 11790 - 3409**AUTHORIZED SIGNATURE****DATE**

December 1, 2010

Page 1 of 3

## NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS****Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification**

The permittee has accepted expressly, by the execution of the application, the full legal responsibility for all damages and costs, direct or indirect, of whatever nature and by whomever suffered, for liability it incurs resulting from activity conducted pursuant to this permit or in noncompliance with this permit and has agreed to indemnify and save harmless the State from suits, actions, damages and costs of every name and description resulting from such activity.

**Item B: Permittee to Require its Contractors to Comply with Permit**

The permittee shall require its independent contractors, employees, agents and assigns to read, understand and comply with this permit, including all special conditions, and such persons shall be subject to the same sanctions for violations of this permit as those prescribed for the permittee.

**Item C: Permittee Responsible for Obtaining Other Required Permits**

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required for this project.

**Item D: No Right to Trespass or Interfere with Riparian Rights**

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

**GENERAL CONDITIONS****General Condition 1: Facility Inspection by the Department**

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when written or verbal notification is provided by the Department at least 24 hours prior to such inspection.

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

**General Condition 2: Relationship of this Permit to Other Department Orders and Determinations**

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

**General Condition 3: Applications for Permit Renewals or Modifications**

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

The permittee must submit a renewal application at least:

- a) 180 days before expiration of permits for State Pollutant Discharge Elimination System (SPDES), Hazardous Waste Management Facilities (HWMF), major Air Pollution Control (APC) and Solid Waste Management Facilities (SWMF); and

- b) 30 days before expiration of all other permit types.

Submission of applications for permit renewal or modification are to be submitted to:

NYSDEC Regional Permit Administrator, Region 1

SUNY @ Stony Brook, 50 Circle Road, Stony Brook NY 11790-3409

**General Condition 4: Permit Modifications, Suspensions and Revocations by the Department**

The Department reserves the right to modify, suspend or revoke this permit when:

- a) the scope of the permitted activity is exceeded or a violation of any condition of the permit or provisions of the ECL and pertinent regulations is found;
- b) the permit was obtained by misrepresentation or failure to disclose relevant facts;
- c) new material information is discovered; or
- d) environmental conditions, relevant technology, or applicable law or regulation have materially changed since the permit was issued.

## NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**ADDITIONAL GENERAL CONDITIONS FOR ARTICLE 15, TITLE 15 (Water Supply)**

1. Prior to starting work on any construction authorized herein, detailed plans of the structures proposed to be built and specifications for such work shall have been submitted to and approved by the NYS Department of Health. Such construction work shall be entirely completed in full accordance with the plans and specifications which have been submitted and approved.
2. Section 15-1529 of the Environmental Conservation Law forbids the operation of any of these works until, as constructed, they have been approved by the Department. Such final approval will be given only on written request. In general, such approval will not be given until all provisions affecting quality of the water and safety of the works have been complied with in full.
3. The Department reserves the right to rescind this permit or to take whatever action it may deem suitable and proper if the works authorized to be constructed herein are not initiated by January 1, 2012.

**SPECIAL CONDITIONS**

1. The U. S. National Park Service shall install a meter to measure and record the amount of water pumped. The meter must be maintained in satisfactory working order.
2. The amount of pumpage must be recorded and reported to this Department on a monthly and annual basis. Monthly pumpage reports must be submitted to the Department within thirty (30) days of the end of the calendar month for which pumpage is reported. Annual pumpage reports must be submitted to the Department within thirty (30) days of the end of the calendar year (February 1) for which pumpage is reported. Included in the monthly and annual pumpage reports shall be the name and the total amount of pumpage supplied to, or received from, other water supply districts.
3. The well and well site shall be constructed in such a manner as to prevent pollution from entering the well.
4. The pumping facilities and controls shall be protected against tampering by a fence or other suitable enclosure or by their manner of construction and installation.
5. The well water must be sampled and analyzed pursuant to New York State Department of Health requirements. The results of such analyses must be submitted to the Suffolk County Health Department for review and approval.
6. Prior to utilizing the water from this well for any purpose, the Permittee must comply with all requirements of the New York State and Suffolk County Health Departments.
7. Meters must be installed for each individual customer receiving water service from this system.
8. The Permittee shall not distribute water to any other water district or service area, unless such action has been approved by this Department.

DEC PERMIT NUMBER:  
1-4722-04843/00004

WATER SUPPLY PROGRAM NUMBER:  
WSA 11451

PAGE 3 OF 3