

NEW YORK CITY BEACH 2013

**SURVEILLANCE AND
MONITORING PROGRAM**



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SECTION 1

INTRODUCTION

In accordance with the New York City Administrative Code §18-131 (c) (4), this annual report summarizes the 2013 New York City Beach Surveillance and Monitoring Program for beaches permitted by the Department of Health and Mental Hygiene (DOHMH or the “Department”). This law requires that the Commissioner of Health and Mental Hygiene “forward a combined report of the dates and results of all inspections of all bathing beaches and the dates and reasons for any advisory or closure, and such other information deemed appropriate by the Commissioner of Health and Mental Hygiene, for the Friday proceeding the last Monday of May until the Friday after the first Monday of September of each year, to the Mayor, the Public Advocate and the Speaker of the Council.”

Under both Article 167 of the New York City Health Code (Article 167) and Subpart 6-2 of the New York State Sanitary Code (Subpart 6-2), the Department is required to monitor and conduct surveillance of permitted beaches in the City of New York. In order to meet requirements under Article 167, the Department administers the Beach Surveillance and Monitoring Program to its eight public and fifteen private permitted beaches. The Program includes: 1) collecting routine beach water quality monitoring; 2) conducting annual compliance inspections of beach facilities; and 3) regulatory surveillance.

The City’s beaches function as an important recreational and quality-of- life resource for City residents and neighboring communities. As shown Figure 3 (page 5) and in Figure 4 (page 6), there are eight public and fifteen private permitted beaches within New York City limits.

1.1 New Initiatives: Beach website data integration

This beach year, the Department completed a comprehensive upgrade to the public DOHMH Beach website. The redesign highlights a functional interactive map that can be manipulated to display the detailed location of beaches, while clearly indicating up-to-date status (open, advisory, closed) of all beaches. The updated platform includes a sortable and searchable table of all beaches that includes links to individual year-to-date sampling data for each beach location.

1.2 Clean Streets-Clean Beaches

Each summer, there is a multi-agency effort to prevent floating debris and trash from reaching NYC area beaches shorelines. This year NYC launched the “Clean Streets-Clean Beaches” campaign, which entailed 70 Department of Environmental Protection (DEP) summer youth staff cleaning up beaches across Brooklyn, Staten Island and Queens to prevent floatable debris from entering into the NYC harbor. Additional assistance was provided by the Department of Parks and Recreation, which maintains a raking and clean-up program at NYC city beaches. As

part of this overall initiative, NYC also hired 100 workers dedicated to helping clean up trash on city streets to prevent it from ending up on area beaches. As part of the campaigns education and outreach initiatives, clean street fliers were posted on over 5,000 city vehicles throughout the 5 boroughs and to lower the usage of disposable plastic bags, DEP youth handed out thousands of reusable tote bags at NYC beaches throughout the 2012 and 2013 seasons.

Despite all of these pollution prevention and control programs, some trash and floatable debris enter the water through ways which are more difficult to control, especially when Combined Sewer Overflows (CSO's) are discharged to the New York City harbor during wet weather events. CSO discharges can contain floatable debris made up of street litter and toilet waste such as hygiene products and other pollutants. DEP maintains 24 floatable containment facilities that capture floatables from approximately 60,000 acres of the city and operates four CSO retention facilities that significantly reduce CSO overflows and control floatables from approximately 11,360 acres before they enter the ocean. The multi-agency Floatables Action Plan also employs several means of controlling floating debris, such as helicopter surveillance to locate slicks, hooded catch basins to reduce the discharge of street litter to sewers, targeted neighborhood street cleaning, skimmer vessels fitted with nets that collect floating debris, floating booms that trap debris and sewer-system improvements intended to maximize the ability to retain floating debris.

1.3 Re-construction after Super Storm Sandy

Notwithstanding the destruction to area beaches caused by Super Storm Sandy, all NYC beaches were open for Memorial Day 2013. Repair work, totaling more than 500,000 person-hours, included debris removal and salvage operations, demolition work, repair of damaged boardwalks, renovation of damaged buildings, replacement of buildings with elevated and storm-resistant modular structures, creation of boardwalk islands around beach amenities, installation of ramps and stairs for beach access, implementation of emergency protective measures, repairs to playgrounds and other recreational facilities adjacent to the beaches, environmental monitoring, and installation of utilities.

As part of the emergency protective measures, berms were created and sand-filled geotextile bags were installed in Rockaway, Cedar Grove Beach, and South Beach. A stone revetment wall was constructed on Wolfe's Pond Park Beach and new concrete baffle walls were erected in Rockaway. This work is intended to protect the beaches from erosion, and protect coastal communities from flooding. The rebuilding of the Steeplechase Pier on Coney Island began in March 2013, and the pier was completed and reopened to the public in October 2013. As part of their near-term coastal restoration efforts, the US Army Corps of Engineers added 600,000 cubic yards of sand to both Coney Island and Rockaway, with another 2.9 million cubic yards soon to be added to Rockaway. When complete this work will have restored these beaches to their original design profiles.

Figure 1: 116TH STREET LIFEGUARD AND COMFORT STATION



Figure 2: LIFEGUARD CHAIRS AND SIGNAGE



Figure 3: LOCATION OF NEW YORK CITY PERMITTED BEACHES



Figure 4: NEW YORK CITY PERMITTED BEACHES AND WATER BODY IDENTIFICATION

Borough	Sector	Beaches	Area	Water body
Brooklyn	Public	Coney Island	From Norton’s Point to Sheepshead Bay	Lower New York Bay
		Manhattan		
	Private	Seagate		
		Kiddie Gerritsen		
		Kingsborough		
Bronx	Public	Orchard	From the southeastern border of Westchester County to just below the Throgs Neck Bridge at Throgs Point	Eastchester Bay, Western Long Island Sound
	Private	American Turner		
		Danish American		
		Manheim		
		White Cross		
		Morris Yacht		
		Schuyler Hill		
		Trinity Danish		
		Locust Point Yacht Club		
West Fordham Street				
Queens	Public	Rockaway	The southern side of Rockaway Peninsula and northern side at Sheepshead Bay	Atlantic Ocean Coastline
	Private	Breezy Point		
		Douglaston Manor	Little Neck Bay	Western Long Island Sound
		Whitestone Booster Civic Association		
Staten Island	Public	South	From Page Avenue, east of Tottenville to Fort Wadsworth Reservation	Lower New York Bay, Raritan Bay
		Midland		
		Cedar Grove		
		Wolfe’s Pond Park		

SECTION 2

BACKGROUND INFORMATION

This chapter provides background information on the New York City Beach Surveillance and Monitoring Program. The topics of discussion include pathogen indicators, bacteriological quality standards, classification of beaches, procedures and protocols on sampling and surveillance, and public notification and risk communication.

2.1 Bacteriological Quality Standards

Under the New York State Sanitary Code §6-2.15, Article §167.03 of the New York City Health Code and the Federal Beaches Environmental Assessment and Coastal Health Act of 2000 (BEACH) Act, Enterococci is the indicator organism mandated for evaluating the microbiological quality of saline recreational beach water. Under New York State Sanitary Code and the New York City Health Code, Enterococci single sample results shall not exceed 104 Colony Forming Units (CFU's) per 100 mL, and the Enterococci geometric mean shall not exceed 35 CFU per 100 mL for a series of five or more samples collected during a 30-day period. The geometric mean and single sample maximum is determined by analyzing samples for the presence and quantification of Enterococci using EPA method 1600.

2.2 Beach Classification and Status Updates

Beach classification and status updates are determined by evaluating water quality data, sanitary and safety surveys, site conditions, and/or historical information. Beachfront areas except those specifically restricted under Article §167.05 are classified as follows:

Class A: Open for Swimming and Bathing. All of the following conditions are considered in order for a beach to be classified as open and approved for swimming and bathing:

1. Bathing beach water quality is in accordance with standards defined under Article §167.13.
2. Sanitary and safety surveys are satisfactory in accordance with Article §167.25.
3. The epidemiological history is satisfactory to the Department. No repeated complaints/reports of illness/injury received from the public or from owners/operators of bathing beaches.

Class B: Under Advisory – Not Recommended for Swimming and Bathing. When any of the following conditions are present, the Department may place the beach/facility under advisory, notifying the public of the likelihood of polluted water conditions, and recommend to the public to avoid swimming in the affected water body:

1. Rainfall events exceed the preemptive standards/threshold of New York City Wet Weather Advisories, as issued by the Department at the beginning of each bathing season.
2. A sanitary and safety survey or investigation reveals the presence of floatable debris, medical/infectious waste, toxic contaminants, petroleum products, and/or other contamination on the beach or evidence of sewage and wastewater discharge, which may constitute a potential public health hazard.

Swimming or bathing is not recommended in any area placed under an Advisory by the Department, especially for people with underlying medical conditions and for young and elderly people who may be at a greater risk of contracting swimming related illnesses.

Under “Class B” beach classification, there are two advisories, Wet Weather Advisory and Pollution Advisory, and they are as follows:

Wet Weather Advisory: This preemptive standard is defined as a threshold level of precipitation that, when exceeded, can lead to elevated levels of bacteria due to combined sewer overflow event’s (CSO’s) and stormwater runoff. Untreated sewage bypasses and excess stormwater runoff can potentially pose a public health threat in nearby bathing beach water bodies. The wet weather advisories for the City beaches are shown in Figure 5 below:

Figure 5: NEW YORK CITY WET WEATHER ADVISORY PROTOCOL

Beach (Borough)	Rainfall Event Limit	Duration of Advisory
South Beach, Midland Beach, Cedar Grove (SI), Manhattan Beach, Kingsborough CC (BK)	1.5 – 2.5 inches	12 hours
	> 2.5 inches	24 hours
Orchard Beach (BX)	> 2.5 inches	24 hours
Coney Island (BK)	> 2.5 inches	12 hours
Gerritsen Beach (BK), Whitestone Booster (QNs)	0.3 - 0.6 inches	18 hours
	> 0.6 inches	40 hours
All Bronx Private Beaches (BX): American Turner, Danish American , Manheim, White Cross, Morris Yacht, Schuyler Hill, Trinity Danish, Locust Point Yacht Club, West Fordham Street Assoc.	0.6 – 2.5 inches	36 hours
	> 2.5 inches	48 hours
Douglaston Manor (QNs)	0.3 – 0.6 inches	30 hours
	0.6 – 2.5 inches	60 hours
	> 2.5 inches	72 hours

Pollution Advisory: A Pollution Advisory is issued to warn the public to avoid recreational water contact when bacteria levels or other conditions that may contribute to possible illness are present. A pollution advisory is issued under the following conditions: (1) when naturally occurring organisms or human influences may cause a continuous or reoccurring degradation of water quality that would put public health at risk; (2) when a sanitary and safety survey or

investigation reveals the presence of floatable debris, medical/infectious waste or toxic contaminants, petroleum products and/or other contamination on the beach; or (3) when there is evidence of sewage and wastewater discharge.

Class C: Closed – Temporarily Restricted for Swimming and Bathing: Permitted beaches may be classified as “Temporarily Restricted for Swimming and Bathing” when one or more of the following conditions exists:

1. Sampling by bacteriological testing that finds bathing beach water quality exceeding the statutory water quality standard for marine water beaches;
2. Epidemiological data indicates a significant incidence of related illnesses or repeated complaints/reports of illness/injury received from beach patrons;
3. A sanitary and safety survey or an investigation reveals the presence of potentially hazardous amounts of floatable debris, medical/infectious waste, toxic contaminants, petroleum products or other contaminants on the beach, or there is evidence of sewage and wastewater discharges in sufficient quantities that will adversely affect the quality of the beach water; or
4. Any other environmental factors determined to be a public health or safety hazard by the Department.

2.3 Routine Monitoring and Surveillance Procedures

The routine beach monitoring and surveillance procedures consist of the following three major components: (1) routine beach water quality monitoring; (2) compliance inspections; and (3) regulatory surveillance.

The Department monitors and samples each beach on a weekly basis with the exception of the Rockaway and Breezy Point beaches, which are routinely sampled bi-weekly. Additional samples may be collected when necessary. The determining factors for additional sampling may include: (1) proximity to suspected pollution sources; (2) extent of pollution; (3) beach use; (4) historical water quality data; and (5) other health risk factors.

Prior to sample collection, a visual inspection is performed to identify any existing and/or potential sources of pollution that are likely to affect beach water quality. During a sample event, three samples are collected at each beach. At larger beaches, such as Coney Island and Rockaway, additional samples are taken at multiple locations to ensure adequate representation and reliable results. Water samples are collected at knee-depth (18 inches) in three feet of water, at the middle of a typical or most highly used area of the beach, or near a potential source of pollution. The collected samples are delivered to the Department’s Office of Public Health Laboratories (PHL) for analysis. The analytical turnaround time for Enterococci is 24 hours.

The water quality of the samples analyzed is reviewed and assessed based on conformance or non-conformance to applicable standards. If the regulatory limit for Enterococci is exceeded or conditions exist which may pose a threat to the health and/or safety of the public, the Department will initiate one of the following actions: (1) conduct immediate re-sampling; (2) issue a pollution advisory and conduct re-sampling; and/or (3) close the beach and conduct re-sampling.

Beach sanitary surveys are performed during the season at each permitted facility; direct observations of conditions are supplemented by interviews with lifeguards and other personnel. In addition to routine water quality monitoring, the Department monitors on a daily basis the regional wet weather conditions and occasional Waste Water Treatment Plant (WWTP) bypasses, operational upsets and spills through interagency communication and cooperation. This information can be used to assess and make beach status determinations.

2.4 Public Notification and Risk Communication

When beach status changes based upon evaluation and assessment of beach water quality as specified above, the Department notifies the public via on-site beach signage, website postings, 311 (non-emergency government service hotline), Notify NYC, Twitter, RSS, e-mail, SMS and Department press releases (when necessary). Beach operators are notified by phone and/or email as to the necessary on-site postings.

The specific notification procedures and requirements for each of the above conditions are as follows:

On-Site Signage: When notified by the Department, the permittee is required to post or remove the advisory or closure signs in designated areas visible to beach users such as beach entrances, bulletin boards, or the general vicinity of the common swimming areas.

Website Postings: The Department has developed an easily accessible website updated with the permitted beaches: www.nyc.gov/health/beach. The website contains background and information summarizing the beach program, explains the causes and sources of surface water pollution, and summarizes the beach classification system, including the different types of advisories. A list of City beaches by borough, along with their respective status (Open, Closed, or Under Advisory) and sample results are updated on the website. Beach advisories or closures are also posted under the “NYC Right Now” link on the City website, www.nyc.gov, during the bathing season

311: The 311 telephone operators are updated by the Department via email with advisory or closure information, as described above. In addition to reporting swimming related illnesses via the website, the public can also report an illness via 311.

NYC Press Release: Press releases are disseminated to various types of media (newspaper, radio, website, television) as well as elected officials.

Notify NYC: When notified by the Department of status changes relating to public beaches the Office of Emergency Management will send members of the public who have signed up to Notify NYC status information via Twitter, RSS, E-Mail and SMS.

SECTION 3

FINDINGS

3.1 Water Quality and Illness Reporting

Routine water quality monitoring and sample collection was performed at all twenty three permitted beaches. Approximately 1650 samples were collected and analyzed from these beaches between April and September 2013. The only illnesses reported to DOHMH in 2013 from beach water contact were 2 complaints related to swimmer's itch. This condition is a type of skin rash caused by tiny snails which naturally occur in the area. The allergic reaction of swimmer's itch can be extremely annoying but is self-limiting and non-transmissible. For more information about swimmer's itch please go to the following link on the cities website http://www.nyc.gov/html/doh/html/diseases/beach_risks1.shtml.

There were 12 pollution advisory and 2 closure days for public beaches during the 2013 bathing season. Due to reconstruction after Super Storm Sandy Wolfe's Pond Beach was closed for bathing during the entire 2013 season. Private beaches had 92 closure days and 98 pollution advisory days. The repetitive North Easterly track of summer thunderstorm activity has an impact on private beaches in the Bronx which are susceptible to runoff resulting in elevated bacteriological levels. Bronx private beaches are located in the western tip of the Long Island Sound which has a complex hydrodynamic system. Long retention times, complex water circulation and mixing patterns and seasonal tidal variations can produce poor mixing in these waters and as a result may contribute to deteriorated water quality.

Douglaston Manor Beach in Queens had Pollution Advisories posted for 44 days and was closed a total of 64 days during the season because of localized elevated bacteria levels, likely due to failing septic systems in the area. The specific Advisory and Closure dates for each beach, are shown in Appendix B: 2013 Advisories & Closures (page 17).

3.2 Inspections

During the 2013 bathing season, a total of 117 inspections were conducted by the Department at permitted beaches. As shown in Appendix C: 2013 Non-Compliance Summary (page 24), both general violations and public health hazard violations were observed at both public and private beaches.

APPENDIX A: 2013 WATER QUALITY RESULTS

Table A-1: Brooklyn Beaches Water Quality Results
Enterococci 30 Day Geometric Mean/Daily Average (Count/100ml)
Water Quality Standards: 30 day geomean limit: 35cfu/100ml, Daily average limit: 104cfu/100ml

Date of Week Ending	CONEY ISLAND BEACH		MANHATTAN BEACH		GERRITSEN/ KIDDIE BEACH		KINGSBOROUGH COMMUNITY COLLEGE		SEA GATE 42ND		SEA GATE BEACH CLUB	
	30 Day	Daily	30 Day	Daily	30 Day	Daily	30 Day	Daily	30 Day	Daily	30 Day	Daily
5/25/2013	6	7	6	4	32	53	8	5	5	7	5	12
6/1/2013	8	44	8	19	86	527	13	41	9	88	9	79
6/8/2013	8	4	10	16	80	4	19	64	9	4	9	5
6/15/2013	8	4	7	4	38	11	12	5	9	7	10	5
6/22/2013	7	4	7	4	30	4	12	4	12	27	11	7
6/29/2013	7	4	8	7	22	11	12	7	11	4	8	4
7/6/2013	5	5	6	7	13	24	9	7	6	4	5	4
7/13/2013	5	14	5	4	10	21	5	9	6	4	5	5
7/20/2013	5	5	5	5	11	11	5	4	9	41	4	4
7/27/2013	8	12	7	27	15	19	12	64	8	11	6	65
8/3/2013	9	7	6	4	18	29	11	4	9	11	7	5
8/10/2013	9	20	6	4	14	7	10	4	10	8	10	23
8/17/2013	10	17	6	5	13	16	17	23	15	24	11	13
8/24/2013	12	19	10	56	14	15	23	28	13	20	13	9
8/31/2013	11	48	10	4	11	7	22	13	12	7	14	63
9/7/2013									10	5	13	4

Table A-2 Bronx Beaches Water Quality Results
Enterococci 30 Day Geometric Mean/Daily Average (Count/100ml)
 Water Quality Standards: 30 day geomean limit: 35cfu/100ml, Daily average limit: 104cfu/100ml

Date of Week Ending	ORCHARD BEACH		AMERICAN TURNER		DANISH AMERICAN BEACH CLUB		LOCUST POINT YACHT CLUB		MANHEM CLUB		MORRIS YACHT AND BEACH CLUB		SCHUYLER HILL CIVIC ASSOCIATION		TRINITY DANISH		WEST FORDHAM STREET ASSOCIATION		WHITE CROSS FISHING CLUB	
	30 Day	Daily	30 Day	Daily	30 Day	Daily	30 Day	Daily	30 Day	Daily	30 Day	Daily	30 Day	Daily	30 Day	Daily	30 Day	Daily	30 Day	Daily
5/25/2013	4	4	27	15	17	7	21	24	11	7	6	4	5	4	13	5	18	3020	26	4
6/1/2013	4	4	17	24	12	37	21	5	7	29	4	4	6	17	7	9	28	39	16	16
6/8/2013	4	4	13	45	14	41	19	19	13	84	4	4	6	4	7	9	30	8	11	28
6/15/2013	4	4	12	9	14	5	12	4	18	25	5	5	6	4	7	7	50	88	9	9
6/22/2013	4	4	15	24	11	4	8	7	17	4	4	4	5	4	8	17	60	19	10	12
6/29/2013	4	4	12	4	10	4	8	28	16	6	5	13	8	24	8	8	17	4	10	4
7/6/2013	4	4	17	110	10	39	8	7	19	57	8	36	6	7	11	37	16	27	16	113
7/13/2013	4	7	13	4	9	4	8	5	15	4	7	4	6	13	10	9	19	45	13	7
7/20/2013	4	5	16	84	7	8	7	4	7	4	8	4	7	4	10	4	13	4	14	31
7/27/2013	4	4	23	180	11	62	10	41	8	8	15	179	10	29	15	164	13	32	20	57
8/3/2013	4	4	23	4	12	4	8	12	7	4	12	4	7	4	14	8	14	5	20	4
8/10/2013	6	29	14	9	8	5	7	4	5	11	8	4	7	4	18	89	21	190	12	8
8/17/2013	7	9	18	15	11	20	7	5	7	19	14	71	6	5	20	12	20	12	13	12
8/24/2013	7	11	16	39	14	29	12	69	10	31	20	32	9	25	32	48	37	195	14	39
8/31/2013	8	5	12	76	9	8	10	16	11	12	10	4	7	11	19	11	27	4	15	95
9/7/2013			17	21	11	11	8	4	12	5	10	4					26	4	19	17
9/14/2013											12	20					14	4		
9/21/2013											7	5								
9/28/2013											5	5								

Table A-3 Queens Beaches Water Quality Results
Enterococci 30 Day Geometric Mean/Daily Average (Count/100ml)
Water Quality Standards- 30 day geomean limit: 35cfu/100ml, Daily Average limit: 104cfu/100ml

Date of Week Ending	ROCKAWAY BEACH*		WHITESTONE BOOSTER CIVIC ASSOCIATION		DOUGLSTON MANOR ASSOCIATION		BREEZY POINT* 219		BREEZY POINT* Reid Ave	
	30 Day	Daily	30 Day	Daily	30 Day	Daily	30 Day	Daily	30 Day	Daily
5/25/2013	4	4	7	20	7	11	4	4	6	16
6/1/2013			11	72	13	143				
6/8/2013	4	5	13	11	21	47	4	4	8	7
6/15/2013			19	31	42	127				
6/22/2013	4	4	17	4	55	81	4	4	6	4
6/29/2013			12	4	135	853				
7/6/2013	5	11	17	397	108	41	4	4	5	4
7/13/2013			15	8	137	527				
7/20/2013	5	4	15	36	115	4	5	4	4	9
7/27/2013			17	8	108	61				
8/3/2013	5	5	20	9	66	7	5	4	4	4
8/10/2013			11	47	44	5				
8/17/2013	5	5	13	17	31	24	6	8	6	28
8/24/2013			14	40	43	1618				
8/31/2013	5	9	16	17	36	5	5	4	8	4
9/7/2013			16	12	52	687				
9/14/2013			16	39	54	5				
9/21/2013					96	687				
9/28/2013					61	33				

*Note: Rockaway and Breezy Point Beaches are routinely sampled bi-weekly.

Table A-4 Staten Island Beaches Water Quality Results
Enterococci 30 Day Geometric Mean/Daily Average (Count/100ml)
Water Quality Standards- 30 day Geomean limit: 35cfu/100ml, Daily Average limit: 104cfu/100ml

Date of Week Ending	SOUTH BEACH		MIDLAND BEACH		CEDAR GROVE BEACH		WOLFE'S POND BEACH	
	30 Day	Daily	30 Day	Daily	30 Day	Daily	30 Day	Daily
5/25/2013	7	7	7	21	9	37	9	7
6/1/2013	7	5	7	4	9	4	8	4
6/8/2013	7	4	8	8	8	4	8	13
6/15/2013	5	11	9	15	9	21	11	8
6/22/2013	5	5	8	5	9	4	14	37
6/29/2013	5	5	6	4	6	4	15	9
7/6/2013	5	4	6	4	9	35	19	17
7/13/2013	5	4	6	5	9	5	16	5
7/20/2013	4	4	5	5	6	4	10	7
7/27/2013	5	15	6	21	12	11	16	247
8/3/2013	6	9	6	4	16	19	13	4
8/10/2013	6	4	7	7	11	4	10	4
8/17/2013	17	49	10	44	22	24	10	4
8/24/2013	22	28	15	51	37	93	29	217
8/31/2013	22	16	14	16	30	13	17	13

APPENDIX B: 2013 ADVISORIES AND CLOSURES

Table B-1 Advisory and Closure Summary for Public Beaches

Name	Status	Start Date	End Date	Reason
CEDAR GROVE	Pollution Advisory	8/14/2013	8/15/2013	Enterococci Exceedance
	Pollution Advisory	8/21/2013	8/27/2013	Enterococci Exceedance
	Closure	8/28/2013	8/29/2013	Confirmed Enterococci Exceedance
	Pollution Advisory	8/30/2013	8/30/2013	Enterococci Exceedance
CONEY ISLAND BEACH	Wet Weather Advisory	6/8/2013	6/8/2013	Preemptive Advisory*
MANHATTAN BEACH	Wet Weather Advisory	6/8/2013	6/8/2013	Preemptive Advisory*
MIDLAND BEACH	Wet Weather Advisory	6/8/2013	6/8/2013	Preemptive Advisory*
SOUTH BEACH	Wet Weather Advisory	6/8/2013	6/8/2013	Preemptive Advisory*
	Pollution Advisory	8/14/2013	8/15/2013	Enterococci Exceedance
ORCHARD BEACH	Wet Weather Advisory	6/8/2013	6/8/2013	Preemptive Advisory*

** Water quality expected to exceed standards due to weather related CSO's and storm-water run -off*

Table B-2 Advisory and Closure Summary for Private Beaches

Name	Status	Start Date	End Date	Reason
American Turner	Wet Weather Advisory	6/3/2013	6/4/2013	Preemptive Advisory*
	Wet Weather Advisory	6/7/2013	6/9/2013	Preemptive Advisory*
	Wet Weather Advisory	6/11/2013	6/12/2013	Preemptive Advisory*
	Wet Weather Advisory	6/14/2013	6/15/2013	Preemptive Advisory*
	Wet Weather Advisory	7/1/2013	7/2/2013	Preemptive Advisory*
	Pollution Advisory	7/4/2013	7/9/2013	Enterococci Exceedance
	Wet Weather Advisory	7/24/2013	7/24/2013	Preemptive Advisory*
	Wet Weather Advisory	8/2/2013	8/3/2013	Preemptive Advisory*
	Wet Weather Advisory	8/8/2013	8/9/2013	Preemptive Advisory*
	Wet Weather Advisory	8/13/2013	8/14/2013	Preemptive Advisory*
	Wet Weather Advisory	9/3/2013	9/3/2013	Preemptive Advisory*
	Danish American Beach Club	Wet Weather Advisory	6/3/2013	6/4/2013
Wet Weather Advisory		6/7/2013	6/9/2013	Preemptive Advisory*
Wet Weather Advisory		6/11/2013	6/12/2013	Preemptive Advisory*
Wet Weather Advisory		6/14/2013	6/15/2013	Preemptive Advisory*
Wet Weather Advisory		7/1/2013	7/2/2013	Preemptive Advisory*
Wet Weather Advisory		7/4/2013	7/4/2013	Preemptive Advisory*
Wet Weather Advisory		7/24/2013	7/24/2013	Preemptive Advisory*
Wet Weather Advisory		8/2/2013	8/3/2013	Preemptive Advisory*
Wet Weather Advisory		8/8/2013	8/9/2013	Preemptive Advisory*
Wet Weather Advisory		8/13/2013	8/14/2013	Preemptive Advisory*
Wet Weather Advisory		9/3/2013	9/3/2013	Preemptive Advisory*

Table B-2 Advisory and Closure Summary for Private Beaches (continued)

Name	Status	Start Date	End Date	Reason
Douglaston Manor	Wet Weather Advisory	5/29/2013	5/29/2013	Preemptive Advisory*
	Pollution Advisory	5/31/2013	6/6/2013	Enterococci Exceedance
	Wet Weather Advisory	6/7/2013	6/8/2013	Preemptive Advisory*
	Closure	6/14/2013	7/25/2013	Confirmed Enterococci Exceedance
	Pollution Advisory	7/26/2013	7/31/2013	Enterococci Exceedance
	Closure	8/1/2013	8/1/2013	Confirmed Enterococci Exceedance
	Pollution Advisory	8/2/2013	8/14/2013	Enterococci Exceedance
	Closure	8/22/2013	8/30/2013	Confirmed Enterococci Exceedance
	Pollution Advisory	8/31/2013	9/5/2013	Enterococci Exceedance
	Closure	9/6/2013	9/10/2013	Confirmed Enterococci Exceedance
	Pollution Advisory	9/11/2013	9/17/2013	Enterococci Exceedance
	Closure	9/18/2013	9/24/2013	Confirmed Enterococci Exceedance
	Pollution Advisory	9/25/2013	9/29/2013	Enterococci Exceedance
Gerritsen/ Kiddie	Wet Weather Advisory	5/29/2013	5/29/2013	Preemptive Advisory*
	Closure	5/31/2013	6/6/2013	Confirmed Enterococci Exceedance
	Pollution Advisory	6/7/2013	6/19/2013	Enterococci Exceedance
	Wet Weather Advisory	7/1/2013	7/2/2013	Preemptive Advisory*
	Wet Weather Advisory	7/4/2013	7/4/2013	Preemptive Advisory*
	Wet Weather Advisory	7/24/2013	7/24/2013	Preemptive Advisory*
	Wet Weather Advisory	8/2/2013	8/3/2013	Preemptive Advisory*
	Wet Weather Advisory	8/8/2013	8/10/2013	Preemptive Advisory*
	Wet Weather Advisory	8/12/2013	8/12/2013	Preemptive Advisory*
	Wet Weather Advisory	8/13/2013	8/14/2013	Preemptive Advisory*
	Wet Weather Advisory	8/22/2013	8/22/2013	Preemptive Advisory*

Table B-2 Advisory and Closure Summary for Private Beaches (continued)

Name	Status	Start Date	End Date	Reason
Kingsborough Community College	Wet Weather Advisory	6/8/2013	6/9/2013	Preemptive Advisory
	Pollution Advisory	8/14/2013	8/15/2013	Enterococci Exceedance
	Closure	8/28/2013	8/29/2013	Confirmed Enterococci Exceedance
Locust Point Yacht Club	Wet Weather Advisory	6/3/2013	6/4/2013	Preemptive Advisory*
	Wet Weather Advisory	6/7/2013	6/9/2013	Preemptive Advisory*
	Wet Weather Advisory	6/11/2013	6/12/2013	Preemptive Advisory*
	Wet Weather Advisory	6/14/2013	6/15/2013	Preemptive Advisory*
	Wet Weather Advisory	7/1/2013	7/2/2013	Preemptive Advisory*
	Wet Weather Advisory	7/4/2013	7/4/2013	Preemptive Advisory*
	Wet Weather Advisory	7/24/2013	7/24/2013	Preemptive Advisory*
	Wet Weather Advisory	8/2/2013	8/3/2013	Preemptive Advisory*
	Wet Weather Advisory	8/8/2013	8/9/2013	Preemptive Advisory*
	Wet Weather Advisory	8/13/2013	8/14/2013	Preemptive Advisory*
	Wet Weather Advisory	9/3/2013	9/3/2013	Preemptive Advisory*
Manhem Club	Wet Weather Advisory	6/3/2013	6/4/2013	Preemptive Advisory*
	Wet Weather Advisory	6/7/2013	6/9/2013	Preemptive Advisory*
	Wet Weather Advisory	6/11/2013	6/12/2013	Preemptive Advisory*
	Wet Weather Advisory	6/14/2013	6/15/2013	Preemptive Advisory*
	Wet Weather Advisory	7/1/2013	7/2/2013	Preemptive Advisory*
	Wet Weather Advisory	7/4/2013	7/4/2013	Preemptive Advisory*
	Wet Weather Advisory	7/24/2013	7/24/2013	Preemptive Advisory*
	Wet Weather Advisory	8/2/2013	8/3/2013	Preemptive Advisory*
	Wet Weather Advisory	8/8/2013	8/9/2013	Preemptive Advisory*
	Wet Weather Advisory	8/13/2013	8/14/2013	Preemptive Advisory*
	Wet Weather Advisory	9/3/2013	9/3/2013	Preemptive Advisory*

Table B-2 Advisory and Closure Summary for Private Beaches (continued)

Name	Status	Start Date	End Date	Reason
Morris Yacht and Beach Club	Wet Weather Advisory	6/3/2013	6/4/2013	Preemptive Advisory*
	Wet Weather Advisory	6/7/2013	6/9/2013	Preemptive Advisory*
	Wet Weather Advisory	6/11/2013	6/12/2013	Preemptive Advisory*
	Wet Weather Advisory	6/14/2013	6/15/2013	Preemptive Advisory*
	Wet Weather Advisory	7/1/2013	7/2/2013	Preemptive Advisory*
	Wet Weather Advisory	7/4/2013	7/4/2013	Preemptive Advisory*
	Wet Weather Advisory	7/24/2013	7/24/2013	Preemptive Advisory*
	Closure	7/26/2013	7/31/2013	Confirmed Enterococci Exceedance
	Wet Weather Advisory	8/2/2013	8/3/2013	Preemptive Advisory*
	Wet Weather Advisory	8/8/2013	8/9/2013	Preemptive Advisory*
	Wet Weather Advisory	8/13/2013	8/14/2013	Preemptive Advisory*
	Wet Weather Advisory	9/3/2013	9/3/2013	Preemptive Advisory*
	Wet Weather Advisory	9/13/2013	9/13/2013	Preemptive Advisory*
	Schuyler Hill Civic Association	Wet Weather Advisory	6/3/2013	6/4/2013
Wet Weather Advisory		6/7/2013	6/9/2013	Preemptive Advisory*
Wet Weather Advisory		6/11/2013	6/12/2013	Preemptive Advisory*
Wet Weather Advisory		6/14/2013	6/15/2013	Preemptive Advisory*
Wet Weather Advisory		7/1/2013	7/2/2013	Preemptive Advisory*
Wet Weather Advisory		7/4/2013	7/4/2013	Preemptive Advisory*
Wet Weather Advisory		7/24/2013	7/24/2013	Preemptive Advisory*
Wet Weather Advisory		8/2/2013	8/3/2013	Preemptive Advisory*
Wet Weather Advisory		8/8/2013	8/9/2013	Preemptive Advisory*
Wet Weather Advisory		8/13/2013	8/14/2013	Preemptive Advisory*

Table B-2 Advisory and Closure Summary for Private Beaches (continued)

Name	Status	Start Date	End Date	Reason
Trinity Danish	Wet Weather Advisory	6/3/2013	6/4/2013	Preemptive Advisory*
	Wet Weather Advisory	6/7/2013	6/9/2013	Preemptive Advisory*
	Wet Weather Advisory	6/11/2013	6/12/2013	Preemptive Advisory*
	Wet Weather Advisory	6/14/2013	6/15/2013	Preemptive Advisory*
	Wet Weather Advisory	7/1/2013	7/2/2013	Preemptive Advisory*
	Wet Weather Advisory	7/4/2013	7/4/2013	Preemptive Advisory*
	Wet Weather Advisory	7/24/2013	7/24/2013	Preemptive Advisory*
	Wet Weather Advisory	8/2/2013	8/3/2013	Preemptive Advisory*
	Wet Weather Advisory	8/8/2013	8/9/2013	Preemptive Advisory*
	Wet Weather Advisory	8/13/2013	8/14/2013	Preemptive Advisory*
West Fordham Street Association	Closure	5/25/2013	5/30/2013	Confirmed Enterococci Exceedance
	Wet Weather Advisory	6/3/2013	6/4/2013	Preemptive Advisory*
	Wet Weather Advisory	6/7/2013	6/9/2013	Preemptive Advisory*
	Wet Weather Advisory	6/11/2013	6/12/2013	Preemptive Advisory*
	Pollution Advisory	6/14/2013	6/25/2013	Enterococci Exceedance
	Wet Weather Advisory	7/1/2013	7/2/2013	Preemptive Advisory*
	Wet Weather Advisory	7/4/2013	7/4/2013	Preemptive Advisory*
	Wet Weather Advisory	7/24/2013	7/24/2013	Preemptive Advisory*
	Wet Weather Advisory	8/2/2013	8/3/2013	Preemptive Advisory*
	Pollution Advisory	8/8/2013	8/14/2013	Enterococci Exceedance
	Closure	8/22/2013	8/28/2013	Confirmed Enterococci Exceedance
	Wet Weather Advisory	9/3/2013	9/3/2013	Preemptive Advisory*

Table B-2 Advisory and Closure Summary for Private Beaches (continued)

Name	Status	Start Date	End Date	Reason
White Cross Fishing Club	Wet Weather Advisory	6/3/2013	6/4/2013	Preemptive Advisory*
	Wet Weather Advisory	6/7/2013	6/8/2013	Preemptive Advisory*
	Wet Weather Advisory	6/10/2013	6/12/2013	Preemptive Advisory*
	Wet Weather Advisory	6/14/2013	6/15/2013	Preemptive Advisory*
	Wet Weather Advisory	7/1/2013	7/2/2013	Preemptive Advisory*
	Pollution Advisory	7/4/2013	7/9/2013	Enterococci Exceedance
	Wet Weather Advisory	7/24/2013	7/24/2013	Preemptive Advisory*
	Wet Weather Advisory	8/2/2013	8/3/2013	Preemptive Advisory*
	Wet Weather Advisory	8/8/2013	8/9/2013	Preemptive Advisory*
	Wet Weather Advisory	8/13/2013	8/14/2013	Preemptive Advisory*
	Wet Weather Advisory	9/3/2013	9/3/2013	Preemptive Advisory*
Whitestone Booster Civic Association	Wet Weather Advisory	5/29/2013	5/29/2013	Preemptive Advisory*
	Wet Weather Advisory	6/3/2013	6/4/2013	Preemptive Advisory*
	Wet Weather Advisory	6/7/2013	6/9/2013	Preemptive Advisory*
	Wet Weather Advisory	6/11/2013	6/13/2013	Preemptive Advisory*
	Wet Weather Advisory	6/14/2013	6/15/2013	Preemptive Advisory*
	Wet Weather Advisory	7/1/2013	7/2/2013	Preemptive Advisory*
	Pollution Advisory	7/5/2013	7/9/2013	Enterococci Exceedance
	Wet Weather Advisory	7/24/2013	7/24/2013	Preemptive Advisory*
	Wet Weather Advisory	8/2/2013	8/3/2013	Preemptive Advisory*
	Wet Weather Advisory	8/8/2013	8/9/2013	Preemptive Advisory*
	Wet Weather Advisory	8/12/2013	8/12/2013	Preemptive Advisory*
	Wet Weather Advisory	8/13/2013	8/14/2013	Preemptive Advisory*

* *Water quality expected to exceed standards due to weather related CSO's and storm-water run -off*

APPENDIX C: 2013 INSPECTION SUMMARY

Table C-1 2013 Inspection Non-Compliance Summary

All other beaches were in full compliance of the regulations at the time of inspection

Beach Name	Public Health Hazard Violations*						General Violations **									
	167.09(a)(13)	167.19(a)(4)	167.19(c)(1)	167.27(a)(1) & 167.29(b)(3)	167.27(a)(2) & 167.29(b)(3)	167.37(f)(2)(A)	167.37(f)(2)(B)	167.05(a)	167.09(a)(13)	167.21(a)(4)	167.29(b)(4) & 167.37(e)	167.31(a) & 167.39(b)	167.31(b) & 167.39(b)	167.31(c)	167.31(d) & 167.39(b)(2)	167.31(e) & 167.39(a)
AMERICAN TURNER										√						
CONEY ISLAND BEACH	√	√							√		√	√	√	√	√	
GERRITSEN/KIDDIE BEACH			√	√					√							
LOCUST POINT YACHT CLUB			√													
MIDLAND BEACH							√								√	
ORCHARD BEACH												√				
ROCKAWAY BEACH	√								√			√	√		√	√
SCHUYLER HILL CIVIC ASSOCIATION			√													
SEA GATE 42ND						√	√									
SOUTH BEACH												√			√	

*** Public Health Hazard Violations:**

- §167.09(a)(13) Any other condition determined to be a Public Health Hazard by the department (e.g. Missing "Keep off Jetty" and "Submerged Object" signs).
- §167.19(a)(4) Failure to post signs indicating "No Lifeguard on Duty - Bathing and Swimming Prohibited" at every entrance when lifeguard not on duty
- §167.19(c)(1) Failure to provide required qualifications and certificates
- §167.27(a)(1) & 167.29(b)(3) Failure to post Wet Weather Posting
- §167.27(a)(2) & 167.29(b)(3) Failure to post Advisory Sign
- §167.37(f)(2)(A) Failure to post signs indicating maximum number or persons permitted on the beach at any time
- §167.37(f)(2)(B) Failure to post signs indicating the hours of operation for bathing

**** General Violations:**

- §167.05(a) Permit not conspicuously posted at the time of inspection
- §167.09(a)(13) Any other condition determined to be a Public Health Hazard by the department (*Kiddie Gerritsen Wet Weather Advisory signs inadequately; Coney Island boardwalk in disrepair; and Rockaway tripping condition exists at the lifeguard station caused by hosing used for landscaping*)
- §167.21(a)(4) First Aid Kit Inadequate
- §167.23(a) Beach Safety Plan not available during inspection
- §167.29(b)(13) Presence of refuse, garbage and/or debris on the beach
- §167.29(b)(4) & 167.37(e) Failure to provide required safety lines
- §167.31(a) & §167.39(b) Failure to properly maintain and operate in a safe, clean, and sanitary condition
- §167.31(b) & §167.39(b) Failure to provide adequate toilet and shower facilities
- §167.31(c) Failure to provide 50 feet of hosing with vacuum breaker
- §167.31(d) & §167.39(b)(2) Failure to provide liquid soap, paper towels or electric hand dryer
- §167.31(e) & §167.39(a) Failure to properly maintain the building structure free of cracks or open joints on the walls or floors