



Bill de Blasio
Mayor

Emily Lloyd
Commissioner

SENTINEL MONITORING REPORT - 2015



June 30, 2016

Emily Lloyd
Commissioner

Pamela Elardo, P.E.
Deputy Commissioner

Mr. Robert Elburn, P.E.,
Regional Water Engineer
New York State Department of
Environmental Conservation
Division of Water - Region II
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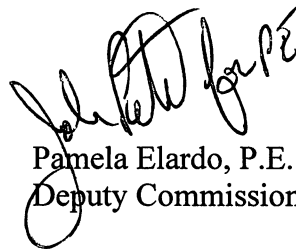
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Re: 2015 Annual Sentinel Monitoring Report

Dear Mr. Elburn:

Pursuant to the State Pollutant Discharge Elimination System permit and in accordance with the section for Untreated Discharges, attached is the Department of Environmental Protection's Sentinel Monitoring Program Annual Report for 2015.

Sincerely,



Pamela Elardo, P.E.
Deputy Commissioner

JV/lid

cc: Eckels, Hammerman, LaGrotta, Volgende, Lipton, Tam, Mahoney, Lee,
Villacis, Shukla, Ferguson, File

BWSO: Roberts, Coleman, Georgelis, Garin, Faublas, Delaney, Vavilis,
McColgan

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INTRODUCTION

The Shoreline Survey Program-Cycle II conducted by the Bureau of Wastewater Treatment's Compliance Monitoring Section (CMS) between 1998 and 2015 has resulted in the identification of 4,406 outfalls including 427 Combined Sewer Overflows (CSO), 375 storm outfalls and other outfalls such as highway drains and non-city owned drains. A total of 388 contaminated discharges representing a flow of 4.16 MGD were identified. Since then, 369 of these contaminated discharges have been abated, representing a flow of 4.10 MGD, of which 238 discharging pipes are city-owned and the remainder, 131, falls under the jurisdiction of NYSDEC. Currently NYCDEP has six (6) contaminated discharge pipes under abatement investigation, or 0.04 MGD, whereas 8 sewer pipes under the jurisdiction of NYSDEC remain to be abated or 0.02 MGD. Therefore, the benefit has been a 98.6 % abatement rate of contaminated dry weather discharges.

As an enhancement and modification of surveying the City's coastal waters under the Shoreline Survey Program, a "**SENTINEL MONITORING PROGRAM**" was designed, in cooperation with NYSDEC, to monitor specific sampling areas for fecal coliform (a raw sewage indicator) in water bodies throughout New York City. NYCDEP currently performs sentinel monitoring at eighty ambient monitoring stations in accordance with the current SPDES permit. When a survey of the shoreline is performed, all shoreline survey protocols described in the Untreated Discharges section of the SPDES permit are followed.

The goal of the **Sentinel Monitoring Program** is the periodic monitoring and sampling of ambient stations throughout New York City's harbor. Quarterly fecal coliform sampling is conducted at eighty stations. Sampling is performed after a dry antecedent period of forty eight hours and during various tidal cycles and seasons to ensure statistical integrity. The sampling results are compared to an established baseline. If sampling results are above the baseline trigger limits, NYCDEP aggressively pursues field investigations and surveillance of the adjacent shoreline of such sentinel stations to determine the source and cause of the contamination. Immediate actions are implemented to abate any found illegal discharges

OPERATIONAL PLAN

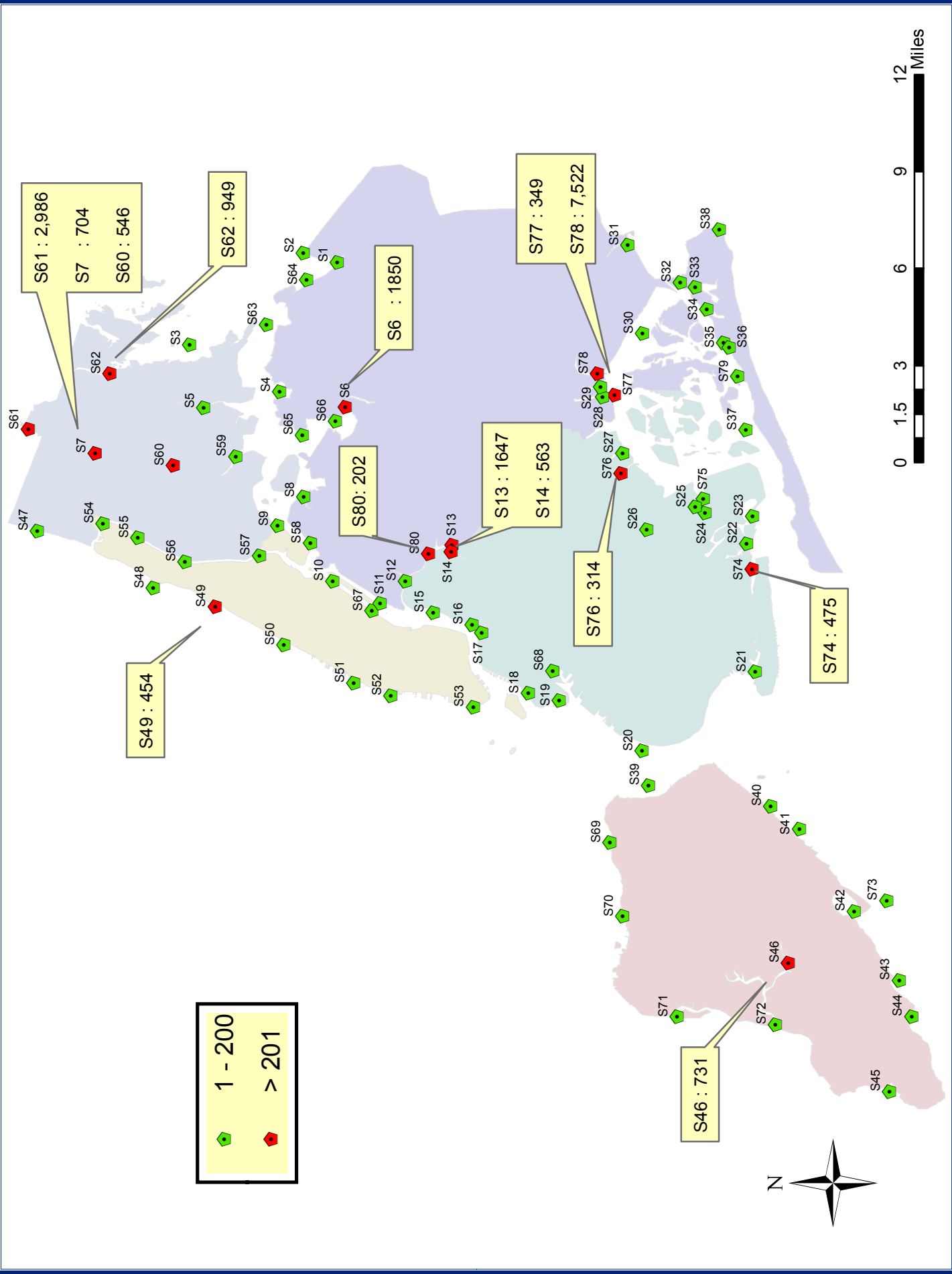
For 2015, a baseline of 200 fecal colonies (FC) / 100 mL, based on NYSDEC water quality standards, was assigned to all 80 sentinel stations. A mini-shoreline investigation was conducted for any exceedance of that baseline.

Each site is identified by a station number. Its location in the water is pinpointed using latitude and longitude coordinates from a Global Positioning System Navigator. Details of the **Sentinel Monitoring Program** such as coordinate system, site map, analytical result, and baseline are described through the following tables, graphs and maps.

SURVEY STATISTICS

Fecal Coliform Baseline FC/100 ml	Number of Stations	Percentage (%) of Stations
1 – 200	66	82.5
> 200	14	17.5

New York Harbor Sentinel Monitoring Stations 2015 - Survey Statistics





Sampling Stations

Station ID	Location	Latitude	Longitude
S1	Alley Creek & Northern Boulevard (Northside)	40° 46' 07"	73° 45' 26"
S2	Entrance to Udall's Cove at Village Park	40° 47' 01"	73° 45' 06"
S3	Eastchester Bay & Lafayette Avenue	40° 50' 05"	73° 48' 21"
S4	Entrance to Powell's Cove	40° 47' 40"	73° 50' 01"
S5	Westchester Creek north of Unionport Bridge	40° 49' 43"	73° 50' 35"
S6	Entrance to Flushing River w/o Whitestone Expressway	40° 45' 54"	73° 50' 34"
S7	Bronx River South of East Gun Hill Road	40° 52' 38"	73° 52' 10"
S8	Entrance to Steinway Creek	40° 47' 01"	73° 53' 44"
S9	Entrance to Bronx Kills n/o Randall's Island Park	40° 47' 44"	73° 54' 46"
S10	Hallets Cove and 30th Drive	40° 46' 14"	73° 56' 44"
S11	East Channel & Entrance to 45th Avenue Canal	40° 44' 59"	73° 57' 29"
S12	Entrance to Dutch Kills South of LIRR Bridge	40° 44' 17"	73° 56' 44"
S13	Newtown Creek n/o Grand Avenue Bridge	40° 43' 02"	73° 55' 26"
S14	Entrance to English Kills at Scott street	40° 43' 04"	73° 55' 41"
S15	Entrance to Bushwick Inlet	40° 43' 32"	73° 57' 50"
S16	Entrance to Wallabout Channel	40° 42' 30"	73° 58' 16"
S17	Entrance to Brooklyn Navy Yard	40° 42' 14"	73° 58' 32"
S18	Entrance to Atlantic Basin	40° 40' 59"	73° 00' 41"
S19	Entrance to Erie Basin at Dwight Street	40° 40' 09"	73° 00' 56"
S20	Upper New York Bay & 79th street	40° 37' 56"	73° 02' 44"
S21	Entrance to Coney Island Creek at Kaiser Playground	40° 34' 53"	73° 59' 56"
S22	Shell Bank Creek & Lois Avenue	40° 35' 07"	73° 55' 24"
S23	Gerritsen Inlet at Dead Horse Bay	40° 34' 57"	73° 54' 26"
S24	Mill Basin & Indiana Place	40° 36' 14"	73° 54' 19"
S25	Entrance to East Mill Basin at Basset Street	40° 36' 30"	73° 54' 07"
S26	Paerdegat Basin & Avenue K Marina	40° 37' 48"	73° 54' 54"
S27	Entrance to Hendrix Creek southeast of Belt Parkway	40° 38' 26"	73° 52' 12"

Fecal result (FC) = Count / 100mL



Sampling Stations

Station ID	Location	Latitude	Longitude
S28	Entrance to Shellbank Basin at 165th Avenue	40° 38' 59"	73° 50' 13"
S29	Entrance to Hawtree Basin at 164th Avenue	40° 39' 02"	73° 49' 52"
S30	Grassy Bay at South Runway 7-JFK Airport	40° 37' 55"	73° 47' 59"
S31	Entrance to Thurston Basin	40° 38' 18"	73° 44' 52"
S32	Entrance to Mott Basin at Breeze Place	40° 36' 53"	73° 46' 11"
S33	Entrance to Norton Basin at Dunbar Street	40° 36' 29"	73° 46' 21"
S34	Entrance to Sommerville Basin	40° 36' 11"	73° 47' 08"
S35	Entrance to Vernam Basin at Alameda Avenue	40° 35' 44"	73° 48' 18"
S36	Entrance to Barbadoes Basin at Beach 83rd Street	40° 35' 35"	73° 48' 29"
S37	Beach Channel and Beach 131st Street	40° 35' 08"	73° 51' 23"
S38	Bannister Creek & Atlantic Beach Bridge Approach	40° 35' 50"	73° 44' 19"
S39	Upper NY Bay & Navy Homeport (at Union Street)	40° 37' 46"	74° 03' 56"
S40	Lower NY Bay n/o Sand Lane (South Beach)	40° 34' 28"	74° 04' 40"
S41	Lower NY Bay s/o New Dorp Lane (Gateway Park)	40° 33' 42"	74° 05' 28"
S42	Entrance to Great Kills Harbor at Cleveland Avenue	40° 32' 13"	74° 08' 22"
S43	Raritan Bay n/o Huguenot Avenue	40° 31' 01"	74° 10' 48"
S44	Prince's Bay & entrance to Lemon Creek	40° 30' 40"	74° 12' 05"
S45	Arthur Kill & Entrance to Mill Creek	40° 31' 16"	74° 14' 43"
S46	Richmond Creek and Richmond Avenue (Eastside)	40° 33' 59"	74° 10' 12"
S47	Hudson River & W.233rd Street	40° 54' 11"	73° 54' 56"
S48	Hudson River Under George Washington Bridge	40° 51' 04"	73° 56' 58"
S49	Hudson River & W.135th Street	40° 49' 25"	73° 57' 38"
S50	Hudson River & W. 86th Street	40° 47' 34"	73° 58' 59"
S51	Hudson River & W. 38th Street	40° 45' 41"	73° 00' 19"
S52	Hudson River & W. 14th Street	40° 44' 41"	73° 00' 46"
S53	Hudson River & South Cove (The Battery)	40° 42' 26"	73° 01' 10"
S54	Harlem River Under Broadway Bridge	40° 52' 25"	73° 54' 40"

Fecal result (FC) = Count / 100mL



Sampling Stations

Station ID	Location	Latitude	Longitude
S55	Harlem River & Sherman Creek	40° 51' 29"	73° 55' 11"
S56	Harlem River & W. 170th Street	40° 50' 13"	73° 56' 02"
S57	Harlem River n/o Willis Avenue Bridge	40° 48' 13"	73° 55' 49"
S58	East River & 24th Avenue	40° 46' 51"	73° 55' 23"
S59	Bronx River & Randall Avenue	40° 48' 51"	73° 52' 18"
S60	Bronx River & E. 180th Street	40° 50' 32"	73° 52' 37"
S61	Bronx River & E. 241st Street	40° 54' 26"	73° 51' 20"
S62	Hutchinson River & Ash Loop	40° 52' 14"	73° 49' 22"
S63	East River Under The Throggs Neck Bridge	40° 48' 01"	73° 47' 39"
S64	Little Neck Bay & 26th Avenue	40° 46' 56"	73° 46' 03"
S65	East River & 18th Avenue	40° 47' 04"	73° 51' 33"
S66	Flushing Bay & 31st Avenue	40° 46' 10"	73° 51' 04"
S67	East River & E. 51 Street	40° 45' 12"	73° 57' 46"
S68	Gowanus Bay e/o Hamilton Avenue Bridge	40° 40' 20"	73° 59' 53"
S69	Kill Van Kull & Tysen Street	40° 38' 47"	74° 05' 58"
S70	Kill Van Kull w/o Bayonne Bridge	40° 38' 27"	74° 08' 34"
S71	Arthur Kill e/o Prall's Island	40° 36' 59"	74° 12' 06"
S72	Arthur Kill & Fresh Kills	40° 34' 20"	74° 12' 23"
S73	Lower NY Bay e/o Crooke's Point (Gateway Park)	40° 31' 20"	74° 08' 01"
S74	Sheepshead Bay & Nostrand Avenue	40° 34' 58"	73° 56' 19"
S75	Mill Basin e/o Belt Parkway	40° 36' 17"	73° 53' 50"
S76	Fresh Creek Basin & Avenue N	40° 38' 29"	73° 52' 56"
S77	Grassy Bay Under Cross Bay Boulevard Bridge	40° 38' 40"	73° 50' 10"
S78	Bergen Basin & 163rd Avenue	40° 39' 07"	73° 49' 24"
S79	Broad Channel e/o Giant Bar Marsh	40° 35' 21"	73° 49' 30"
S80	Newtown Creek Under Kosciusko Bridge	40° 43' 40"	73° 55' 45"

Fecal result (FC) = Count / 100mL



SHORELINE MONITORING PROGRAM

2016 ANALYTICAL RESULTS

Station ID	Samp1	Samp2	Samp3	Samp4	Samp5	Samp6	Samp7	Samp8	Samp9	Samp10	95% UCL
S1	1,800	4,000	10	4	63	83	6	5	25	20	192
S2	2	100	4	4	18	33	6	4	5	20	20
S3	4	6	2	4	10	14	4	4	4	5	7
S4	24	5	1	6	10	14	28	4	18	8	15
S5	12	8	2	4	9	6	11	25	15	264	26
S6	4,000	440	88	700	430	870	3,770	15	2,780	1,400	1,850
S7	520	1,760	620	112	450	260	80	276	1,320	340	704
S8	44	15	1	47	9	22	6	4	8	2	19
S9	60	14	2	19	27	230	11	8	2	4	33
S10	4,000	48	6	35	18	80	14	5	5	8	92
S11	10	26	44	2	36	88	8	20	96	2	41
S12	188	24	1	2	27	990	196	10	22	108	120
S13	380	236	120	16	660	8,200	670	160	3,280	4,000	1,647
S14	700	276	5	44	230	2,500	152	196	380	385	563
S15	8	22	19	32	9	53	14	15	8	5	23
S16	19	26	1	2	9	39	22	4	25	12	21
S17	10	42	8	10	10	84	80	5	5	8	29
S18	8	6	11	5	10	17	8	10	20	4	12
S19	1	1	11	2	10	6	19	2	12	2	8
S20	3,560	10	8	33	9	8	50	5	8	4	65
S21	1,020	5	30	19	9	11	14	88	12	2	57
S22	24	12	2	4	10	11	11	2	2	4	10
S23	20	164	1	4	10	3	4	5	4	4	15
S24	20	2	2	8	59	11	6	4	10	4	14
S25	28	2	2	11	40	11	11	8	2	4	14
S26	288	176	100	84	30	39	58	164	164	307	179
S27	680	106	4	480	10	4	11	5	18	30	86

Fecal result = FC / 100ml

UCL – Under Confidence Limit



SHORELINE MONITORING PROGRAM

2016 ANALYTICAL RESULTS

Station ID	Samp1	Samp2	Samp3	Samp4	Samp5	Samp6	Samp7	Samp8	Samp9	Samp10	95% UCL
S28	101	50	40	204	178	4	8	8	112	12	85
S29	152	400	30	410	89	156	4	12	2	171	171
S30	22	240	4	152	129	3	4	4	25	124	72
S31	85	40	5	156	36	4	22	35	136	237	93
S32	25	2	2	17	10	4	11	4	2	4	10
S33	40	9	2	22	10	4	4	4	18	5	14
S34	40	34	1	6	45	4	3	4	4	4	15
S35	82	75	2	8	9	6	22	2	5	2	21
S36	2,640	4,000	20	3	10	4	17	4	208	2	173
S37	1	31	1	6	10	3	3	4	8	2	8
S38	448	6	2	6	171	8	19	4	20	2	40
S39	5	76	11	28	36	6	4	15	12	4	23
S40	10	12	1	17	24	3	4	4	2	4	10
S41	1	1	1	22	10	19	4	2	10	4	9
S42	18	2	2	17	10	4	4	2	18	4	10
S43	9	2	2	4	10	4	4	4	4	4	6
S44	5	2	20	11	10	4	14	2	4	4	9
S45	16	9	2	88	10	22	31	5	8	2	21
S46	2,300	620	19	920	580	22	183	70	1,100	340	731
S47	58	76	74	25	9	8	168	280	2	12	79
S48	2	102	88	56	81	84	64	200	2	260	135
S49	19	4,000	720	104	54	390	100	112	132	219	454
S50	284	82	83	88	460	17	72	186	38	92	171
S51	780	38	60	92	36	4	64	108	5	80	123
S52	280	21	52	53	63	39	83	70	10	80	92
S53	184	430	41	50	18	22	39	30	4	12	82
S54	66	34	104	50	9	25	92	370	4	40	91

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Fecal result = FC / 100ml

UCL - Under Confidence Limit



SHORELINE MONITORING PROGRAM

2016 ANALYTICAL RESULTS

Station ID	Samp1	Samp2	Samp3	Samp4	Samp5	Samp6	Samp7	Samp8	Samp9	Samp10	95% UCL
S55	68	14	113	80	27	31	168	226	2	35	100
S56	64	14	14	64	162	47	112	136	2	116	101
S57	46	16	18	69	108	6	31	15	2	60	48
S58	99	12	6	8	81	69	8	45	8	4	38
S59	500	64	12	400	117	490	4	80	25	65	199
S60	1,200	620	640	102	520	50	8	220	900	52	546
S61	3,260	2,020	268	204	18,000	3,400	144	560	1,920	1,460	2,986
S62	44	144	2	11	153	96	1,700	2,320	4,000	2,500	949
S63	124	6	2	3	9	4	104	4	4	4	20
S64	660	620	6	4	108	116	4	4	18	8	101
S65	1,240	4,000	4	4	27	31	4	20	30	10	145
S66	4,000	12	4	4	10	8	19	4	18	96	72
S67	800	9	18	81	320	14	8	8	8	5	76
S68	700	18	21	4	162	1,200	31	2	45	12	138
S69	29	31	18	112	9	11	22	8	25	2	32
S70	196	20	42	82	10	6	17	8	8	2	39
S71	48	19	20	113	9	4	14	2	15	2	27
S72	114	26	30	84	18	28	4	5	10	5	37
S73	2	1	2	3	10	3	61	4	12	4	9
S74	840	680	29	174	27	1,600	33	28	1,120	132	475
S75	6	16	1	4	10	4	4	4	15	4	9
S76	2,520	156	168	211	138	25	156	18	188	95	314
S77	160	960	16	900	370	900	44	20	20	58	349
S78	3,500	4,000	1,900	3,200	125,000	12,900	330	253	900	560	7,522
S79	14	119	4	3	90	4	4	2	10	2	20
S80	96	480	4	2	27	176	148	15	600	230	202

Fecal result = FC / 100ml

UCL – Under Confidence Limit

1st QUARTER
JANUARY 1 - MARCH 31, 2015



SHORELINE MONITORING PROGRAM

2015

FECAL COLIFORM SAMPLE RESULTS

1st QUARTER

No	Sample Date	Station ID	Fecal Coliform (FC / 100 mL)	Baseline (FC / 100 mL)
1	03/25/15	S 1	6	200
2	03/25/15	S 2	6	200
3	03/25/15	S 3	4	200
4	03/25/15	S 4	28	200
5	03/25/15	S 5	11	200
6	03/25/15	S 6	*3,770	200
7	03/19/15	S 7	80	200
8	03/23/15	S 8	6	200
9	03/23/15	S 9	11	200
10	03/13/15	S 10	14	200
11	01/15/15	S 11	8	200
12	01/15/15	S 12	196	200
13	03/19/15	S 13	*670	200
14	03/19/15	S 14	152	200
15	01/15/15	S 15	14	200
16	01/15/15	S 16	22	200
17	01/15/15	S 17	80	200
18	01/15/15	S 18	8	200
19	01/15/15	S 19	19	200
20	01/15/15	S 20	50	200
21	01/15/15	S 21	14	200
22	01/21/15	S 22	11	200
23	01/21/15	S 23	4	200
24	01/21/15	S 24	6	200
25	01/21/15	S 25	11	200
26	01/21/15	S 26	58	200
27	01/21/15	S 27	11	200
28	01/21/15	S 28	8	200
29	01/21/15	S 29	4	200
30	01/21/15	S 30	4	200
31	03/23/15	S 31	22	200
32	03/23/15	S 32	11	200
33	03/23/15	S 33	4	200
34	03/23/15	S 34	3	200
35	03/23/15	S 35	22	200
36	03/23/15	S 36	17	200
37	03/23/15	S 37	3	200
38	03/19/15	S 38	19	200
39	03/13/15	S 39	4	200
40	03/13/15	S 40	4	200

** Fecal Coliform Exceedance*



SHORELINE MONITORING PROGRAM

2015
FECAL COLIFORM SAMPLE RESULTS
1st QUARTER

No	Sample Date	Station ID	Fecal Coliform (FC / 100 mL)	Baseline (FC / 100 mL)
41	03/13/15	S 41	4	200
42	03/13/15	S 42	4	200
43	03/13/15	S 43	4	200
44	03/13/15	S 44	14	200
45	03/13/15	S 45	31	200
46	03/19/15	S 46	183	200
47	03/24/15	S 47	168	200
48	03/24/15	S 48	64	200
49	03/24/15	S 49	100	200
50	03/24/15	S 50	72	200
51	03/24/15	S 51	64	200
52	03/24/15	S 52	83	200
53	03/24/15	S 53	39	200
54	03/24/15	S 54	92	200
55	03/24/15	S 55	168	200
56	03/24/15	S 56	112	200
57	03/24/15	S 57	31	200
58	03/13/15	S 58	8	200
59	03/25/15	S 59	4	200
60	03/19/15	S 60	8	200
61	03/19/15	S 61	144	200
62	03/19/15	S 62	*1,700	200
63	03/25/15	S 63	104	200
64	03/25/15	S 64	4	200
65	03/25/15	S 65	4	200
66	03/25/15	S 66	19	200
67	01/15/15	S 67	8	200
68	01/15/15	S 68	31	200
69	03/13/15	S 69	22	200
70	03/13/15	S 70	17	200
71	03/13/15	S 71	14	200
72	03/13/15	S 72	4	200
73	03/13/15	S 73	61	200
74	03/23/15	S 74	33	200
75	01/21/15	S 75	4	200
76	01/21/15	S 76	156	200
77	01/21/15	S 77	44	200
78	01/21/15	S 78	*330	200
79	03/23/15	S 79	4	200
80	01/15/15	S 80	148	200

* Fecal Coliform Exceedance

WEATHER REPORT

The first quarter monitoring and sampling of ambient sampling stations began on January 01 and ended on March 31, 2015. During this quarter, all eighty sentinel stations were sampled. During this quarter a total of 11.99 inches of precipitation fell.

MINI-SHORELINE SURVEY RESULTS

S-6: Entrance to Flushing River, w/o Whitestone Expressway

A mini shoreline survey of the Flushing River was conducted in the end of April. The survey covered the shoreline of the river between Roosevelt Avenue and 31st Road. No discharge was observed.

S-13: Newtown Creek, n/o Grand Avenue

A mini shoreline survey of the Newtown Creek was conducted in the end of April. The survey covered the shoreline of the creek between Grand Avenue and 58th Street. No discharge was observed.

S-62: Hutchinson River & Ash Loop

A mini shoreline survey of the Hutchinson River was conducted in mid-April. The survey covered the shoreline of the river near Coop City, Bronx. No discharge was observed.

S-78: Bergen Basin & 163rd Avenue

A mini shoreline survey of the Bergen Basin was conducted in the end of February. The survey covered the entire shoreline of the basin. No discharge was observed. This station encompasses an area near JFK Airport; the area is controlled by Port Authority. Access to the basin is very limited due to airport security.

DRY WEATHER DISCHARGE

JAM-005 & Thurston Basin

As of today, Compliance Monitoring Section (CMS) personnel have fully investigated the list submitted by DEP's contractor Hazen & Sawyer of 123 possible illegal connections to the storm sewer in Queens. The results are as follows:

1. Eighty six (86) establishments were found to be properly connected to the sanitary sewer.
2. Thirty five (35) establishments were found to be connected to the storm sewer and were reconnected to the sanitary sewer.
3. Two (2) establishments were found to have illicit connections to the storm sewer, and are under legal review for reconnection.

CMS personnel will continue monitoring the remaining two cases and promptly report the status. Please refer to Item Number 3288.

TI-024 & Alley Creek

As part of an ongoing investigation to identify any illegal storm sewer connections tributary to the outfall TI-024, the following 219 establishments were dye tested:

240-29 67 th Ave	240-31 67 th Ave	240-33 67 th Ave	240-45 67 th Ave
240-39 67 th Ave	240-36 67 th Ave	240-28 67 th Ave	240-43 67 th Ave
240-57 67 th Ave	240-35 67 th Ave	240-37 67 th Ave	240-27 67 th Ave
240-53 67 th Ave	240-59 67 th Ave	240-34 67 th Ave	240-51 67 th Ave
240-55 67 th Ave	240-63 67 th Ave	240-61 67 th Ave	240-69 67 th Ave
240-41 67 th Ave	240-83 67 th Ave	240-72 67 th Ave	240-65 67 th Ave
240-67 67 th Ave	240-75 67 th Ave	240-52 67 th Ave	240-79 67 th Ave
240-78 67 th Ave	240-47 67 th Ave	240-76 67 th Ave	240-48 67 th Ave
240-70 67 th Ave	240-60 67 th Ave	240-81 67 th Ave	240-58 67 th Ave
240-30 67 th Ave	240-73 67 th Ave	240-17 67 th Ave	240-40 67 th Ave
240-11 67 th Ave	240-19 67 th Ave	240-42 67 th Ave	240-20 67 th Ave
240-18 67 th Ave	240-15 67 th Ave	240-21 67 th Ave	240-22 67 th Ave
240-16 67 th Ave	240-01 67 th Ave	240-12 67 th Ave	240-46 67 th Ave
240-64 67 th Ave	240-06 67 th Ave	240-07 67 th Ave	239-47 66 th Ave
239-45 66 th Ave	240-66 67 th Ave	240-49 67 th Ave	240-03 67 th Ave
239-41 66 th Ave	239-35 66 th Ave	239-43 66 th Ave	239-39 66 th Ave
239-29 66 th Ave	239-33 66 th Ave	239-42 66 th Ave	239-37 66 th Ave
239-31 66 th Ave	240-25 67 th Ave	239-55 66 th Ave	239-49 66 th Ave
239-51 66 th Ave	239-53 66 th Ave	239-44 66 th Ave	239-40 66 th Ave
239-38 66 th Ave	239-32 66 th Ave	239-27 66 th Ave	239-19 66 th Ave
239-25 66 th Ave	239-36 66 th Ave	240-05 67 th Ave	239-54 66 th Ave
240-12 66 th Ave	239-50 66 th Ave	239-46 66 th Ave	240-28 66 th Ave
239-30 66 th Ave	239-56 66 th Ave	240-02 66 th Ave	240-14 66 th Ave
240-71 67 th Ave	240-16 66 th Ave	240-20 66 th Ave	240-07 66 th Ave
240-17 66 th Ave	240-04 66 th Ave	240-06 66 th Ave	239-48 65 th Ave
239-52 65 th Ave	239-54 65 th Ave	239-29 65 th Ave	239-35 65 th Ave
239-33 65 th Ave	239-37 65 th Ave	240-33 65 th Ave	239-49 65 th Ave

240-37 66 th Ave	239-47 65 th Ave	239-51 65 th Ave	239-40 65 th Ave
239-53 65 th Ave	239-57 65 th Ave	239-30 65 th Ave	239-50 65 th Ave
239-59 65 th Ave	239-20 65 th Ave	239-19 65 th Ave	239-22 65 th Ave
239-21 65 th Ave	239-26 65 th Ave	239-27 65 th Ave	239-46 65 th Ave
239-25 65 th Ave	239-31 65 th Ave	239-28 65 th Ave	239-45 65 th Ave
239-39 65 th Ave	239-36 65 th Ave	239-61 65 th Ave	240-15 65 th Ave
240-03 65 th Ave	240-01 65 th Ave	239-44 65 th Ave	239-41 65 th Ave
239-32 65 th Ave	239-23 65 th Ave	240-02 65 th Ave	240-12 65 th Ave
240-18 65 th Ave	240-28 65 th Ave	239-43 65 th Ave	240-54 67 th Ave
239-17 65 th Ave	239-34 65 th Ave	240-04 67 th Ave	240-08 67 th Ave
239-15 65 th Ave	240-17 65 th Ave	240-09 65 th Ave	240-16 65 th Ave
240-23 65 th Ave	240-30 65 th Ave	240-09 67 th Ave	239-42 65 th Ave
239-55 65 th Ave	240-10 67 th Ave	240-14 67 th Ave	240-38 65 th Ave
240-21 65 th Ave	240-25 65 th Ave	240-27 65 th Ave	240-11 65 th Ave
240-03 66 th Ave	240-05 66 th Ave	240-34 66 th Ave	240-36 66 th Ave
240-19 66 th Ave	240-09 66 th Ave	239-52 66 th Ave	239-24 65 th Ave
240-46 65 th Ave	240-52 65 th Ave	240-56 65 th Ave	240-58 65 th Ave
240-15 66 th Ave	240-18 66 th Ave	240-21 66 th Ave	240-33 66 th Ave
240-46 66 th Ave	240-32 66 th Ave	240-45 66 th Ave	240-53 66 th Ave
240-38 66 th Ave	240-41 66 th Ave	240-10 66 th Ave	240-08 66 th Ave
240-30 66 th Ave	240-52 66 th Ave	240-24 66 th Ave	240-54 66 th Ave
240-56 66 th Ave	239-24 66 th Ave	239-26 66 th Ave	240-37 65 th Ave
240-35 65 th Ave	240-31 65 th Ave	240-32 65 th Ave	240-39 65 th Ave
240-22 65 th Ave	240-24 65 th Ave	240-29 65 th Ave	240-06 65 th Ave
240-05 65 th Ave	240-48 65 th Ave	240-50 65 th Ave	240-40 65 th Ave
240-27 66 th Ave	240-40 66 th Ave	240-47 66 th Ave	240-42 65 th Ave
240-44 65 th Ave	259-07 57 th Ave	259-15 57 th Ave	57-03 Little Neck Parkway
259-11 57 th Ave	259-19 57 th Ave	259-03 57 th Ave	

The following twelve (12) establishments were confirmed to have illegal connections to the storm sewer:

240-81 67 th Ave	240-21 67 th Ave	239-33 66 th Ave	240-25 67 th Ave
239-49 66 th Ave	239-40 66 th Ave	239-38 66 th Ave	239-32 66 th Ave
239-39 65 th Ave	240-09 67 th Ave	240-10 67 th Ave	259-07 57 th Ave

As of today, all 12 illegal connections to the storm sewer have been reconnected to the sanitary sewer. The drainage area will continue to be monitored for any other illegal connection to the storm sewer tributary to the TI-024 outfall. Please refer to Item Number 4558.

OH-021 & Coney Island Creek

In response to a referral by Hazen & Sawyer of high fecal counts in a storm sewer tributary to Coney Island Creek, CMS started an investigation to identify the source(s) of the discharge.

As part of the investigation, CMS personnel dye-tested forty-six (46) establishments in the area. The following thirty-eight (38) establishments were found properly connected to the sanitary sewer:

2668 Coney Island Ave	2666 Coney Island Ave	2664 Coney Island Ave
2658 Coney Island Ave	2650B Coney Island Ave	2648 Coney Island Ave
2560A Coney Island Ave	2624 Coney Island Ave	746 Crawford Ave
744 Crawford Ave	751 Crawford Ave	747 Crawford Ave
752 Crawford Ave	748 Crawford Ave	2667 Coney Island Ave
2663 Coney Island Ave	2659 Coney Island Ave	2653 Coney Island Ave (Levla)
2651 Coney Island Ave	2637 Coney Island Ave	2653 Coney Island Ave (Zebra)
2647 Coney Island Ave	2673 Coney Island Ave	2677 Coney Island Ave
738 Crawford Ave	740 Crawford Ave	734 Crawford Ave
2679 Coney Island Ave	2681 Coney Island Ave	2677 Coney Island Ave
2687 Coney Island Ave	2691 Coney Island Ave	2273 85 th Street
2267 85 th Street	2273 85 th Street	2255 85 th Street
2261 85 th Street	2259 85 th Street	

The remaining eight (8) establishments, listed below, were found improperly connected to a storm sewer tributary to OH-021:

1. Five Brothers Pizza, 2650C Coney Island Avenue, Brooklyn, NY 11223
2. One Click Enterprise, 2308A McDonald Avenue, Brooklyn, NY 11223
3. New Way Fashion Inc., 2308 McDonald Avenue, Brooklyn, NY 11223
4. Forever Young, 23014 McDonald Avenue, Brooklyn, NY 11223
5. N&G Cellular Inc., 2661 Coney Island Avenue, Brooklyn, NY 11223
6. Oasis Café, 2689 Coney Island Ave, Brooklyn, NY 11223
7. Jenny Wu, 2277 85th Street, Brooklyn, NY 11214
8. Joseph Pacifico, 404 Avenue W, NY 11223

As a result, Commissioner’s Orders (CO) were issued. All but 1 establishment promptly complied with the COs by removing illegal connections from the storm sewer. The house located at 404 Avenue W did not comply and is under legal review.

CMS personnel will continue to perform dye testing in the area to identify any other illegal connections to storm sewers tributary to the OH-021 outfall. An extension of six (6) months was therefore requested in order to continue investigation to abate any other illegal discharges to the storm sewer tributary to OH-021. Please refer to Item Number 5326.

BB-008, 108th Street & 37th Avenue

The investigation to identify the source of the dry weather discharge at the outfall is ongoing. Since this outfall is tidally impacted, the Bureau of Environmental Design and Construction (BEDC) has begun a project for modifying weirs in the regulators that discharge to BB-008, to optimize CSO capture. Please refer to Item Number 3687.

Also, in response to a request from the DEP-Bureau of Water and Sewer Operations (BWSO) regarding an illegal sewer connection to the storm sewer, CMS personnel started an investigation. Three establishments, Chipotle Grill, Martha's Country Bakery, and Austin Public, along Austin Street, Forest Hills, New York, were illegally connected to the storm sewer. Commissioner's Orders were issued to each establishment for removal of the illegal connections from the storm sewer.

All three (3) establishments promptly complied with the Commissioner's Orders, and therefore the cases were closed as of August 13, 2015.

CI-664, W. 15th Street & Coney Island Creek

The investigation to determine source(s) of contaminated dry-weather discharge from CI-664 is still ongoing. An extensive sewer reconstruction project makes track downs very difficult. Therefore, after the construction of a new storm sewer in the area by the New York City Department of Design and Construction, CMS personnel will continue investigating the area for more illegal connections to the storm sewer that affect the outfall CI-664. Please refer to Item Number 3621.

HP-010 & Bronx River

The investigation to determine the source(s) of contaminated dry-weather discharge from HP-010 is still ongoing. DEP has excavated the buried manholes and videotaped the storm line. The case was promptly referred to BWSO for further investigation. Please refer to Item Number 3374.

CI-863 & Shell Bank Creek

In response to a request from NYS-DEC regarding a possible illegal discharge from the establishment, TGI Friday's, into the Shell Bank Creek, CMS personnel performed a joint investigation with NYS DEC. The establishment pumped out excessive wastewater from its holding tank into a nearby private septic system. CMS personnel issued a Commissioner's Order to the establishment to cease this discharge. The case was transferred back to NYS-DEC.

2nd QUARTER
APRIL 1 - JUNE 30, 2015



SHORELINE MONITORING PROGRAM

2015

FECAL COLIFORM SAMPLE RESULTS

2nd QUARTER

No	Sample Date	Station ID	Fecal Coliform (FC / 100 mL)	Baseline (FC / 100 mL)
1	05/14/15	S 1	5	200
2	05/14/15	S 2	4	200
3	05/14/15	S 3	4	200
4	05/14/15	S 4	4	200
5	05/14/15	S 5	25	200
6	05/14/15	S 6	15	200
7	04/27/15	S 7	*276	200
8	05/14/15	S 8	4	200
9	05/14/15	S 9	8	200
10	05/14/15	S 10	5	200
11	05/27/15	S 11	20	200
12	04/30/15	S 12	10	200
13	04/30/15	S 13	160	200
14	04/30/15	S 14	196	200
15	04/30/15	S 15	15	200
16	04/30/15	S 16	4	200
17	04/30/15	S 17	5	200
18	04/30/15	S 18	10	200
19	04/30/15	S 19	2	200
20	04/30/15	S 20	5	200
21	05/27/15	S 21	88	200
22	04/29/15	S 22	2	200
23	04/29/15	S 23	5	200
24	04/29/15	S 24	4	200
25	04/29/15	S 25	8	200
26	04/29/15	S 26	164	200
27	04/29/15	S 27	5	200
28	04/29/15	S 28	8	200
29	04/29/15	S 29	12	200
30	04/29/15	S 30	4	200
31	05/27/15	S 31	35	200
32	05/27/15	S 32	4	200
33	05/27/15	S 33	4	200
34	05/27/15	S 34	4	200
35	05/27/15	S 35	2	200
36	05/27/15	S 36	4	200
37	05/27/15	S 37	4	200
38	04/27/15	S 38	4	200
39	04/28/15	S 39	15	200
40	04/28/15	S 40	4	200

** Fecal Coliform Exceedance*



SHORELINE MONITORING PROGRAM

2015

FECAL COLIFORM SAMPLE RESULTS

2nd QUARTER

No	Sample Date	Station ID	Fecal Coliform (FC / 100 mL)	Baseline (FC / 100 mL)
41	04/28/15	S 41	2	200
42	04/28/15	S 42	2	200
43	04/28/15	S 43	4	200
44	04/28/15	S 44	2	200
45	04/28/15	S 45	5	200
46	04/30/15	S 46	70	200
47	05/14/15	S 47	*280	200
48	05/14/15	S 48	*200	200
49	05/14/15	S 49	112	200
50	05/14/15	S 50	186	200
51	05/14/15	S 51	108	200
52	05/14/15	S 52	70	200
53	05/14/15	S 53	30	200
54	05/14/15	S 54	*370	200
55	05/14/15	S 55	*226	200
56	05/14/15	S 56	136	200
57	05/14/15	S 57	15	200
58	05/27/15	S 58	45	200
59	05/14/15	S 59	80	200
60	04/27/15	S 60	*220	200
61	04/27/15	S 61	*560	200
62	05/13/15	S 62	*2,320	200
63	05/14/15	S 63	4	200
64	05/14/15	S 64	4	200
65	05/14/15	S 65	20	200
66	05/14/15	S 66	4	200
67	05/14/15	S 67	8	200
68	04/30/15	S 68	2	200
69	04/28/15	S 69	8	200
70	04/28/15	S 70	8	200
71	04/28/15	S 71	2	200
72	04/28/15	S 72	5	200
73	04/28/15	S 73	4	200
74	05/27/15	S 74	28	200
75	04/29/15	S 75	4	200
76	04/29/15	S 76	18	200
77	04/29/15	S 77	20	200
78	04/29/15	S 78	*253	200
79	05/27/15	S 79	2	200
80	04/30/15	S 80	15	200

** Fecal Coliform Exceedance*

WEATHER REPORT

The second quarter monitoring and sampling of ambient sampling stations began on April 01 and ended on June 30, 2015. During this quarter, all eighty sentinel stations were sampled. During this quarter a total of 8.69 inches of precipitation fell.

MINI-SHORELINE SURVEY RESULTS

S-7: Bronx River, s/o East Gun Hill Road

A mini shoreline survey of the Bronx River was conducted in the beginning of May. The survey targeted all the outfalls on both east and west sides of the Bronx River, starting north of East Gun Hill Road and proceeding northward to the Westchester County border. Two (2) outfalls with highly elevated fecal coliform levels, originating from Westchester County were identified to be the source of exceedance at the sentinel stations. CMS has notified the NYSDEC of this ongoing problem.

S-47: Hudson River & West 233rd Street

A mini shoreline survey of the Hudson River was conducted in mid-July. The survey covered the shoreline of the river between West 231st Street and West 247th Street. No discharge was observed.

S-48: Hudson River, under the George Washington Bridge

A mini shoreline survey of the Hudson River was conducted in mid-July. The survey covered the shoreline of the river between West 173rd Street and 183rd Street. No discharge was observed.

S-54: Harlem River, under Broadway Bridge

A mini shoreline survey of the Harlem River was conducted in the beginning of June. The survey covered the shoreline of the river between the Broadway Bridge and West 215th Street. No discharge was observed.

S-55: Harlem River & Sherman Creek

A mini shoreline survey of the Harlem River was conducted in the beginning of June. The survey covered the entire Sherman Creek. No discharge was observed.

S-60: Bronx River & E. 180th Street

A mini shoreline survey of the Bronx River was conducted in the beginning of May. The survey covered the shoreline of the river between E. 180th Street and the Bronx Zoo. No discharge was observed.

S-61: Bronx River & E. 241st Street

A mini shoreline survey of the Bronx River was conducted in the beginning of May. The survey covered the shoreline of the river between E. 243rd Street and Westchester County. No discharge was observed.

S-62: Hutchinson River & Ash Loop

A mini shoreline survey of the Hutchinson River was conducted in the beginning of May. The survey covered the shoreline of the river near Coop City, Bronx. No discharge was observed.

S-78: Bergen Basin & 163rd Avenue

A mini shoreline survey of the Bergen Basin was conducted in the end of May. The survey covered the entire shoreline of the basin. No discharge was observed. This station encompasses an area near JFK Airport; the area is controlled by Port Authority. Access to the basin is very limited due to airport security.

DRY WEATHER DISCHARGES

OB-1002 – Woodrow Mall, Staten Island

In response to a request from NYS-DEC regarding a dry weather discharge at Rossville Ave, Staten Island, CMS personnel performed a joint investigation with NYC-DEC. A nearby strip mall, Woodrow Plaza Mall, was discharging into the storm sewer. CMS personnel issued a Commissioner’s Order (CO) to cease the illegal discharge and reconnect to the sanitary sewer.

Upon compliance with the CO, the case was closed on August 14, 2015, and was forwarded to NYS-DEC for review.

BB – Astoria Park Pool, Queens

As per the request from DEP-Collection Facilities regarding a possible dry weather discharge and the availability of sewers fronting Astoria Park, Queens, CMS personnel began an investigation. There was no sanitary sewer line fronting the property, and the NYC-Parks claimed that the pool and the bathrooms were taken out of service until the sewer connection is resolved. No dry weather discharge was observed at the time.

TI – 5-18 128th Street, Queens,

In response to a request from DEP management regarding an illegal connection to a catch basin from the establishment located at 5-18 128th Street, Queens, CMS personnel began an investigation. Discolored water was observed seeping into the catch basin that was in front of the property during the investigation. The property was located right next to a private community and had no sewer fronting the property. The sewer map also confirmed that there was no sanitary sewer fronting the property. CMS referred the case to BWSO for further action.

3rd QUARTER
JULY 1 - SEPTEMBER 30, 2015



SHORELINE MONITORING PROGRAM

2015

FECAL COLIFORM SAMPLE RESULTS

3rd QUARTER

No	Sample Date	Station ID	Fecal Coliform (FC / 100 mL)	Baseline (FC / 100 mL)
1	09/02/15	S 1	25	200
2	08/27/15	S 2	5	200
3	08/27/15	S 3	4	200
4	08/27/15	S 4	18	200
5	08/27/15	S 5	15	200
6	08/27/15	S 6	*2,780	200
7	07/21/15	S 7	*1,320	200
8	08/27/15	S 8	8	200
9	08/27/15	S 9	2	200
10	09/03/15	S 10	5	200
11	09/03/15	S 11	96	200
12	09/02/15	S 12	22	200
13	09/02/15	S 13	*3,280	200
14	09/02/15	S 14	*380	200
15	09/02/15	S 15	8	200
16	09/02/15	S 16	25	200
17	09/02/15	S 17	5	200
18	09/02/15	S 18	20	200
19	09/02/15	S 19	12	200
20	08/24/15	S 20	8	200
21	08/24/15	S 21	12	200
22	07/13/15	S 22	2	200
23	07/13/15	S 23	4	200
24	07/13/15	S 24	10	200
25	07/13/15	S 25	2	200
26	07/13/15	S 26	164	200
27	07/13/15	S 27	18	200
28	07/13/15	S 28	112	200
29	07/13/15	S 29	2	200
30	09/03/15	S 30	25	200
31	08/24/15	S 31	136	200
32	08/24/15	S 32	2	200
33	08/24/15	S 33	18	200
34	08/24/15	S 34	4	200
35	08/24/15	S 35	5	200
36	08/24/15	S 36	*208	200
37	08/24/15	S 37	8	200
38	08/10/15	S 38	20	200
39	08/03/15	S 39	12	200
40	08/03/15	S 40	2	200

* Fecal Coliform Exceedance



SHORELINE MONITORING PROGRAM

2015
FECAL COLIFORM SAMPLE RESULTS
3rd QUARTER

No	Sample Date	Station ID	Fecal Coliform (FC / 100 mL)	Baseline (FC / 100 mL)
41	08/03/15	S 41	10	200
42	08/03/15	S 42	18	200
43	08/03/15	S 43	4	200
44	08/03/15	S 44	4	200
45	08/03/15	S 45	8	200
46	08/10/15	S 46	*1,100	200
47	08/28/15	S 47	2	200
48	08/28/15	S 48	2	200
49	08/28/15	S 49	132	200
50	08/28/15	S 50	38	200
51	08/28/15	S 51	5	200
52	08/28/15	S 52	10	200
53	08/28/15	S 53	4	200
54	08/28/15	S 54	4	200
55	08/28/15	S 55	2	200
56	08/28/15	S 56	2	200
57	08/28/15	S 57	2	200
58	09/03/15	S 58	8	200
59	08/27/15	S 59	25	200
60	07/21/15	S 60	*900	200
61	07/21/15	S 61	*1,920	200
62	07/21/15	S 62	*4,000	200
63	08/24/15	S 63	4	200
64	08/27/15	S 64	18	200
65	08/27/15	S 65	30	200
66	08/27/15	S 66	18	200
67	09/03/15	S 67	8	200
68	08/24/15	S 68	45	200
69	08/03/15	S 69	25	200
70	08/03/15	S 70	8	200
71	08/03/15	S 71	15	200
72	08/03/15	S 72	10	200
73	08/03/15	S 73	12	200
74	08/24/15	S 74	*1,120	200
75	07/13/15	S 75	15	200
76	07/13/15	S 76	188	200
77	07/13/15	S 77	20	200
78	07/13/15	S 78	*900	200
79	08/24/15	S 79	10	200
80	09/02/15	S 80	*600	200

* Fecal Coliform Exceedance

WEATHER REPORT

The third quarter monitoring and sampling of ambient sampling stations began on July 01 and ended on September 30, 2015. During this quarter, all eighty sentinel stations were sampled. During this quarter a total of 9.65 inches of precipitation fell.

MINI-SHORELINE SURVEY RESULTS

S-6: Entrance to Flushing River, w/o Whitestone Expressway

A mini shoreline survey of the Flushing River was conducted in mid-September. The survey covered the shoreline of the river between Roosevelt Avenue and 31st Road. No discharge was observed.

S-7: Bronx River, s/o East Gun Hill Road

A mini shoreline survey of the Bronx River was conducted in the end of July. The survey targeted all of the outfalls on both the east and west sides of the Bronx River, starting north of East Gun Hill Road and proceeding northward to the Westchester County border. Two outfalls with highly elevated fecal coliform levels, originating from Westchester County, were identified to be the source of exceedance at the sentinel stations. CMS has notified NYSDEC of this ongoing problem.

S-13: Newtown Creek, n/o Grand Avenue

A mini shoreline survey of the Newtown Creek was conducted in the beginning of September. The survey covered the shoreline of the creek between Grand Avenue and 58th Street. No discharge was observed.

S-14: Entrance to English Kills at Scott Street

A mini shoreline survey of the English Kills was conducted in the beginning of September. The survey covered the entire shoreline of the kills. No discharge was observed.

S-36: Entrance to Barbadoes Basin at Beach 83rd Street

A mini shoreline survey of the Jamaica Bay was conducted in the end of August. The survey covered the entire Barbadoes Basin. No discharge was observed.

S-46: Richmond Creek & Richmond Avenue

A mini shoreline survey of the Richmond Creek was conducted in the end of August. The survey covered the entire shoreline of the creek. No discharge was observed.

S-60: Bronx River & E. 180th Street

A mini shoreline survey of the Bronx River was conducted in the end of July. The survey covered the shoreline of the river between E. 180th Street and the Bronx Zoo. No discharge was observed.

S-61: Bronx River & E. 241st Street

A mini shoreline survey of the Bronx River was conducted in mid-August. The survey covered the shoreline of the river between E. 243rd Street and Westchester County. No discharge was observed.

S-62: Hutchinson River & Ash Loop

A mini shoreline survey of the Hutchinson River was conducted in mid-August. The survey covered the shoreline of the river near Coop City, Bronx. No discharge was observed.

S-74: Sheepshead Bay & Nostrand Avenue

A mini shoreline survey of the Sheepshead Bay was conducted in mid-September. The survey covered the entire shoreline of the bay. No discharge was observed.

S-78: Bergen Basin & 163rd Avenue

A mini shoreline survey of the Bergen Basin was conducted in the end of July. The survey covered the entire shoreline of the basin. No discharge was observed. This station encompasses an area near JFK Airport; the area is controlled by Port Authority. Access to the basin is very limited due to airport security.

S-80: Newtown Creek under Kosciusko Bridge

A mini shoreline survey of the Newtown Creek was conducted by the beginning of September. The survey covered the shoreline of the creek between Meeker Avenue and Anthony Street. No discharge was observed.

DRY WEATHER DISCHARGES

OH-015

In response to a request from NYS-DEC regarding a possible dry weather discharge at the outfall designated as OH-015, CMS personnel performed a joint investigation with NYS-DEC. CMS personnel observed discolored water at the outfall. Also observed was a construction crew digging up the street and washing off mud and debris to the catch basins tributary to OH-015. When CMS consulted with DEP – Collection Facilities South personnel, we were informed that the sediment accumulated in the OH-015 chamber is being mixed with tide-water and discharged at the outfall, OH-015. CMS Personnel inspected the manhole downstream to the regulator and observed it to be dry. CMS referred the case back to DEC.

4th QUARTER
OCTOBER 1 - DECEMBER 31, 2015



SHORELINE MONITORING PROGRAM

2015
FECAL COLIFORM SAMPLE RESULTS
4th QUARTER

No	Sample Date	Station ID	Fecal Coliform (FC / 100 mL)	Baseline (FC / 100 mL)
1	11/18/15	S 1	20	200
2	11/18/15	S 2	20	200
3	11/18/15	S 3	5	200
4	11/18/15	S 4	8	200
5	11/18/15	S 5	*264	200
6	11/18/15	S 6	*1,400	200
7	10/21/15	S 7	*340	200
8	11/18/15	S 8	2	200
9	11/18/15	S 9	4	200
10	10/20/15	S 10	8	200
11	10/20/15	S 11	2	200
12	10/08/15	S 12	108	200
13	10/08/15	S 13	*4,000	200
14	10/08/15	S 14	*385	200
15	10/20/15	S 15	5	200
16	10/20/15	S 16	12	200
17	10/20/15	S 17	8	200
18	10/20/15	S 18	4	200
19	10/20/15	S 19	2	200
20	10/20/15	S 20	4	200
21	11/04/15	S 21	2	200
22	11/04/15	S 22	4	200
23	11/04/15	S 23	4	200
24	11/04/15	S 24	4	200
25	11/04/15	S 25	4	200
26	11/04/15	S 26	*307	200
27	11/04/15	S 27	30	200
28	10/07/15	S 28	12	200
29	10/07/15	S 29	171	200
30	10/07/15	S 30	124	200
31	10/07/15	S 31	*237	200
32	10/07/15	S 32	4	200
33	10/07/15	S 33	5	200
34	10/07/15	S 34	4	200
35	10/07/15	S 35	2	200
36	10/07/15	S 36	2	200
37	10/07/15	S 37	2	200
38	10/22/15	S 38	2	200
39	10/19/15	S 39	4	200
40	10/19/15	S 40	4	200

** Fecal Coliform Exceedance*



SHORELINE MONITORING PROGRAM

2015
FECAL COLIFORM SAMPLE RESULTS
4th QUARTER

No	Sample Date	Station ID	Fecal Coliform (FC / 100 mL)	Baseline (FC / 100 mL)
41	10/19/15	S 41	4	200
42	10/19/15	S 42	4	200
43	10/19/15	S 43	4	200
44	10/19/15	S 44	4	200
45	10/19/15	S 45	2	200
46	10/22/15	S 46	*340	200
47	10/06/15	S 47	12	200
48	10/08/15	S 48	*260	200
49	10/08/15	S 49	*219	200
50	10/08/15	S 50	92	200
51	10/08/15	S 51	80	200
52	10/08/15	S 52	80	200
53	10/08/15	S 53	12	200
54	10/06/15	S 54	40	200
55	10/06/15	S 55	35	200
56	10/06/15	S 56	116	200
57	10/06/15	S 57	60	200
58	11/18/15	S 58	4	200
59	11/18/15	S 59	65	200
60	10/21/15	S 60	52	200
61	10/21/15	S 61	*1,460	200
62	10/21/15	S 62	*2,500	200
63	11/18/15	S 63	4	200
64	11/18/15	S 64	8	200
65	11/18/15	S 65	10	200
66	11/18/15	S 66	96	200
67	10/20/15	S 67	5	200
68	10/20/15	S 68	12	200
69	10/19/15	S 69	2	200
70	10/19/15	S 70	2	200
71	10/19/15	S 71	2	200
72	10/19/15	S 72	5	200
73	10/19/15	S 73	4	200
74	11/04/15	S 74	132	200
75	11/04/15	S 75	4	200
76	11/04/15	S 76	95	200
77	10/07/15	S 77	58	200
78	10/07/15	S 78	*560	200
79	10/07/15	S 79	2	200
80	10/08/15	S 80	*230	200

** Fecal Coliform Exceedance*

WEATHER REPORT

The fourth quarter monitoring and sampling of ambient sampling stations began on October 01 and ended on December 31, 2015. During this quarter, all eighty sentinel stations were sampled. During this quarter a total of 10.64 inches of precipitation fell.

MINI-SHORELINE SURVEY RESULTS

S-5: Westchester Creek, n/o Unionport Bridge

A mini shoreline survey was conducted in mid-November. The survey covered the shoreline of the Westchester Creek between Waterbury Ave and Lafayette Ave. No discharges were observed.

S-6: Entrance to Flushing River, w/o Whitestone Expressway

A mini shoreline survey of the Flushing River was conducted in mid-November. The survey covered the shoreline of the river between Roosevelt Avenue and 31st Road. No discharge was observed.

S-7: Bronx River, s/o East Gun Hill Road

A mini shoreline survey of the Bronx River was conducted in the beginning of November. The survey targeted all of the outfalls on both the east and west sides of the Bronx River, starting north of East Gun Hill Road and proceeding northward to the Westchester County border. Two outfalls with highly elevated fecal coliform levels, originating from Westchester County were identified to be the source of exceedance at the sentinel stations. The CMS has notified the NYSDEC of this ongoing problem.

S-13: Newtown Creek, n/o Grand Avenue

A mini shoreline survey of the Newtown Creek was conducted in mid-October. The survey covered the shoreline of the creek between Grand Avenue and 58th Street. No discharge was observed.

S-14: Entrance to English Kills at Scott Street

A mini shoreline survey of the English Kills was conducted in mid-October. The survey covered the entire shoreline of the kills. No discharge was observed.

S-26: Paerdegat Basin & Avenue K Marina

A mini shoreline survey of the Paerdegat Basin was conducted in mid-December. The survey covered the entire shoreline of the basin. No discharge was observed.

S-31: Entrance to Thurston Basin

A mini shoreline survey of the Thurston Basin was conducted in mid-October. The survey covered the entire shoreline of the basin. The outfall designated as JAM-005 was observed discharging during dry weather. The investigation for abating the contamination to the basin from this outfall is ongoing.

S-46: Richmond Creek & Richmond Avenue

A mini shoreline survey of the Richmond Creek was conducted in the beginning of November. The survey covered the entire shoreline of the creek. No discharge was observed.

S-48: Hudson River, under the George Washington Bridge

A mini shoreline survey of the Hudson River was conducted in mid-October. The survey covered the shoreline of the river between West 173rd Street and 183rd Street. No discharge was observed.

S-49: Hudson River & W. 135th Street

A mini shoreline survey of the Hudson River was conducted in mid-October. The survey covered the shoreline of the river between W. 125th Street and W. 155th Street. No discharge was observed.

S-61: Bronx River & E. 241st Street

A mini shoreline survey of the Bronx River was conducted in the beginning of November. The survey covered the shoreline of the river between E. 243rd Street and Westchester County. No discharge was observed.

S-62: Hutchinson River & Ash Loop

A mini shoreline survey of the Hutchinson River was conducted in mid-November. The survey covered the shoreline of the river near Coop City, Bronx. No discharge was observed.

S-78: Bergen Basin & 163rd Avenue

A mini shoreline survey of the Bergen Basin was conducted in mid-October. The survey covered the entire shoreline of the basin. No discharge was observed. This station encompasses an area near JFK Airport; the area is controlled by Port Authority. Access to the basin is very limited due to airport security.

S-80: Newtown Creek under Kosciusko Bridge

A mini shoreline survey of the Newtown Creek was conducted by the end of October. The survey covered the shoreline of the creek between Meeker Avenue and Anthony Street. No discharge was observed.

DRY WEATHER DISCHARGES

PR – 421 RICHARD AVE, STATEN ISLAND

In response to a request from NYS-DEC regarding a dry weather discharge into Cunningham Pond, CMS personnel conducted a joint investigation with NYS-DEC of 421 Richard Ave, Staten Island. A dye test revealed that the house discharged sanitary wastewater from its septic system into the Cunningham Pond via a 4" PVC pipe. Commissioner's Order (CO) was issued to the owner of the establishment to cease the sanitary waste discharge to the pond and to hire a licensed plumber to repair its septic system.

The owner complied with the CO by having the overflow pipe cut and capped on November 16, 2015. The case was promptly transferred back to NYC-DEC.