INTEGRATED SENTINEL MONITORING REPORT 2022

NYC Environmental Protection

Eric Adams
Mayor

Rohit T. Aggarwala
Commissioner

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I. INTRODUCTION

The Shoreline Survey Program-Cycle II conducted by the Bureau of Wastewater Treatment's Compliance Monitoring Section (CMS) between 1998 and 2022 has resulted in the identification of 5,365 outfalls including 418 Combined Sewer Overflows (CSO), 604 storm outfalls and other outfalls such as highway drains and non-city owned drains. A total of 424 contaminated discharges representing a flow of 4.45 MGD were identified. Of these 424 contaminated discharges, 273 discharging pipes are city-owned and the remainder, 151, falls under the jurisdiction of NYSDEC. Since identification of the discharges, 416 of these have been abated, representing a flow of 4.42 MGD. Currently NYCDEP has six (6) contaminated discharge pipes under abatement investigation, or 0.03 MGD, whereas 2 sewer pipes under the jurisdiction of NYSDEC remain to be abated or 0.004 MGD. Therefore, the benefit has been a 99.3% abatement rate of contaminated dry weather discharges.

As an enhancement and modification of the two-year cycle 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 previously performed sentinel monitoring at eighty (80) ambient monitoring stations in accordance with the current SPDES permit Stormwater Management Program. As of April 1st, 2020, the Sentinel Monitoring Program had been optimized to include the substitution of eighteen (18) stations of the previous eighty (80) ambient monitoring stations with nine (9) Harbor Survey stations and the addition of three (3) new ambient monitoring stations (Coney Island Creek, Sheepshead Bay, and Fresh Creek). Therefore, beginning the second quarter of 2020, NYCDEP has implemented the optimized program by performing sentinel monitoring at seventy-four (74) ambient monitoring stations. 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 seventy-four 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

II. OPERATIONAL PLAN

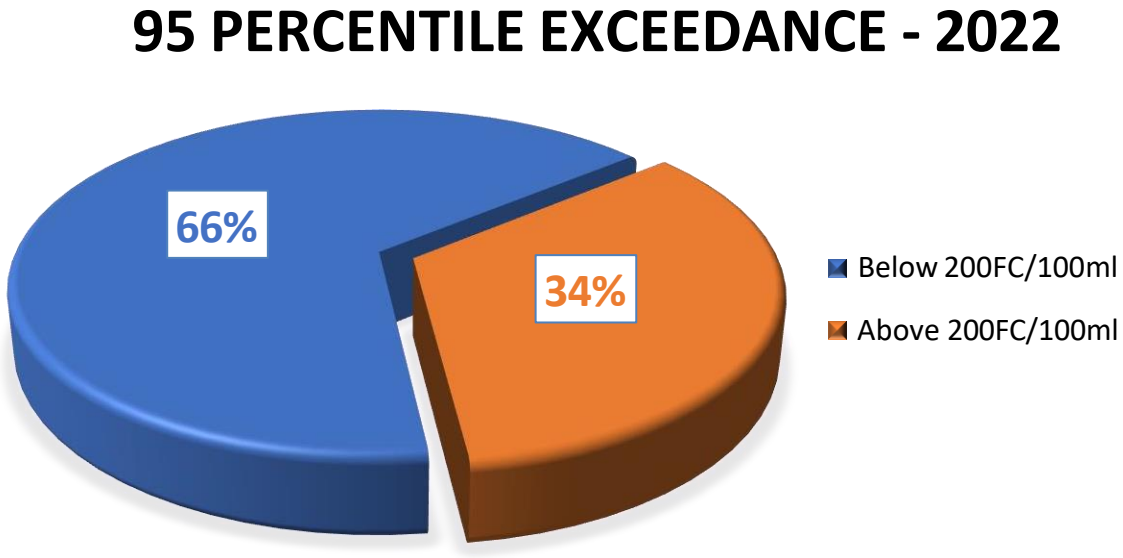
For 2022, an interim baseline of 200 fecal/100 mL, based on NYSDEC water quality standards, was assigned to all 74 sentinel stations. A mini-shoreline investigation was conducted for any exceedance of this baseline. In addition, Enterococci samples were collected from all 74 sentinel stations in each of the quarters. However, DEP will continue to use fecal coliform as the trigger for the mini-shoreline survey as required by the SPDES Permit and MS4 Permit Part IV. D. 5.

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. Whenever a sample of fecal coliform has an "E" in front of it, it is an estimated value as per laboratory protocols.

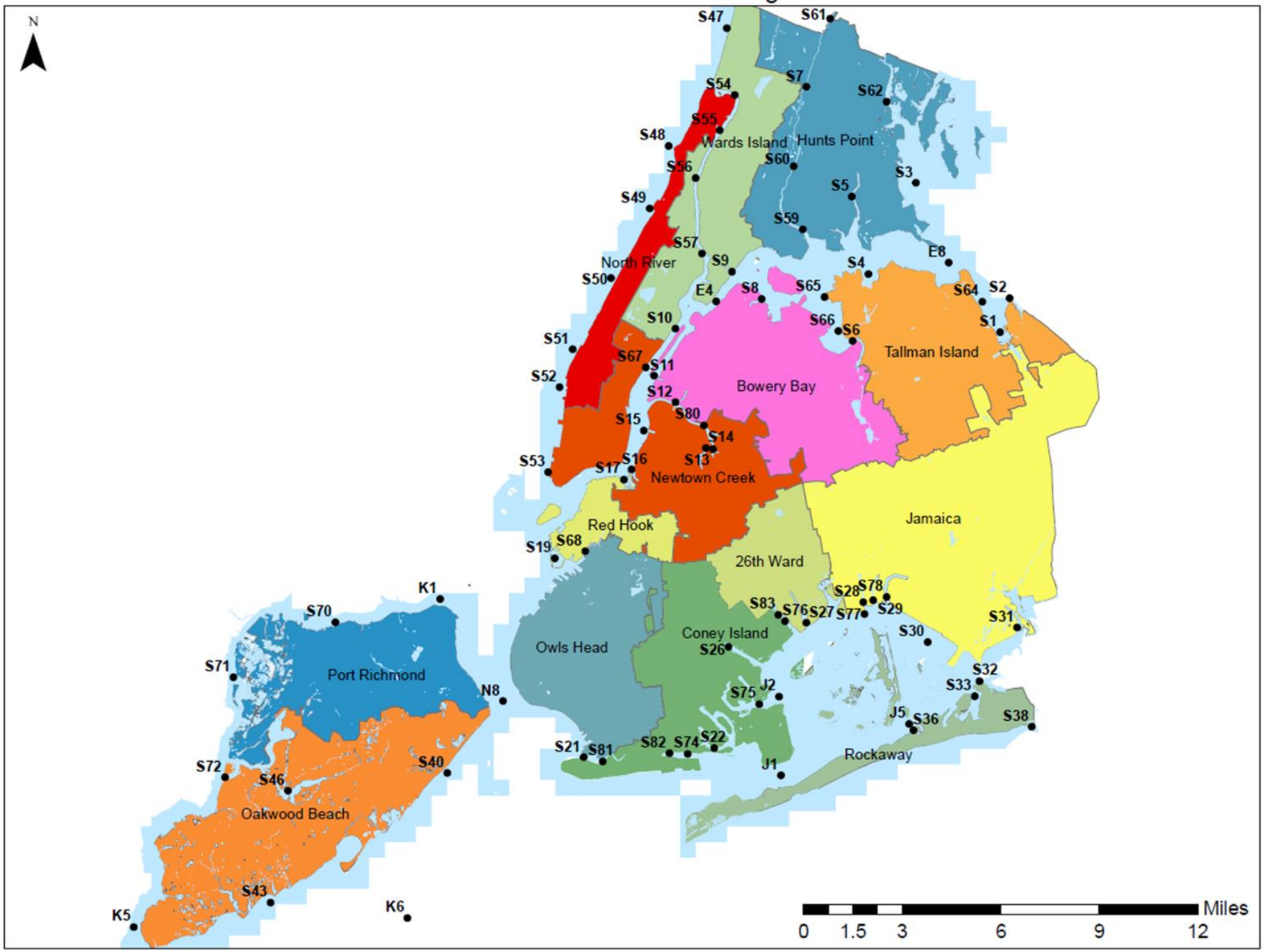
III. SURVEY STATISTICS

CMS has calculated the Ninety-five Percent Upper Confidence Level of the Arithmetic Mean (95% UCL) for each station. The calculated results are summarized in the tables on pages 7 to 9. There are 49 stations with 95% UCL at or below the fecal coliform baseline of 200 FC/100 ml and 25 stations with 95% UCL above the 200 FC/100 ml baseline**.**

Fecal Coliform Baseline FC/100 ml	Number of Stations	Percentage (%) of Stations
1 – 200	49	66
> 200	25	34



New York Harbor Sentinel Monitoring Stations



IV. 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"
S19	Entrance to Erie Basin at Dwight Street	40° 40' 09"	73° 00' 56"
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"
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"
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"

Environmental Protection

IV. SAMPLING STATIONS

Station ID	Location	Latitude	Longitude
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"
S36	Entrance to Barbadoes Basin at Beach 83rd Street	40° 35' 35"	73° 48' 29"
S38	Bannister Creek & Atlantic Beach Bridge Approach	40° 35' 40"	73° 44' 22"
S40	Lower NY Bay n/o Sand Lane (South Beach)	40° 34' 28"	74° 04' 40"
S43	Raritan Bay n/o Huguenot Avenue	40° 31' 01"	74° 10' 48"
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"
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"
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"
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"

IV. SAMPLING STATIONS

Station ID	Location	Latitude	Longitude
S68	Gowanus Bay e/o Hamilton Avenue Bridge	40° 40' 20"	73° 59' 53"
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"
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"
S80	Newtown Creek Under Kosciusko Bridge	40° 43' 40"	73° 55' 45"
S81	Coney Island Creek near W 25th Street	40° 34' 46"	73° 59' 16"
S82	Sheepshead Bay near Exeter Street	40° 34' 59"	73° 56' 57"
S83	Fresh Creek near Avenue L	40° 38' 39"	73° 53' 10"
N8	Midspan under the Verrazano-Narrows Bridge	40° 36' 22"	74° 02' 44"
J1	Rockaway Inlet under the center of the bridge from Barren Island to Rockaway	40° 34' 24"	73° 53' 05"
J2	Mill Basin at the east end of the channel, midway between channel Buoys	40° 36' 29"	73° 53' 09"
J5	Railroad trestle at the center pier of the bridge over Beach Channel, Hammels	40° 35' 45"	73° 48' 38"
K6	200 yards from Old Orchard Light in line with the beacon at Old Orchard Shoal	40° 30' 37"	74° 06' 03"
K5	Ward Point Bend between Tottenville Place & Perth Amboy Place	40° 30' 22"	74° 15' 32"
E4	Hell Gate midstream under Railroad Bridge	40° 46' 57"	73° 55' 19"
E8	Throgs Neck Midway between the two forts at the narrowest point	40° 47' 58"	73° 47' 13"
K1	Constable Hook Reach n/o North Shore Waterfront Esplanade Park	40° 39' 04"	74° 04' 55"

V. BASELINE ANALYTICAL RESULTS

Station ID	2020		2021				2022				95% UCL
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
S1	56	76	2	2	104	70	4	4	245	36	106
S2	62	101	4	2	16	34	40	40	28	28	54
S3	10	8	18	2	4	12	8	4	4	4	10
S4	167	32	4	2	44	28	16	16	12	36	66
S5	87	540	88	56	159	310	230	116	124	533	336
S6	1,200	5,700	2,200	700	5,700	1,600	220	10	10,700	2,000	5,096
S7	936	480	733	340	954	664	873	370	7,500	873	2,714
S8	105	89	2	6	76	36	162	12	76	36	92
S9	16	14	8	8	34	12	16	12	8	16	19
S10	2	60	24	4	14	18	52	28	16	16	35
S11	6	54	10	2	42	12	32	20	24	20	32
S12	300	678	16	217	56	260	92	136	120	40	313
S13	221	3,400	237	282	4,200	410	697	80	56	229	1,916
S14	114	1,109	209	2	420	82	257	128	32	56	445
S15	108	30	12	6	28	44	16	60	20	226	97
S16	16	16	14	2	18	20	12	48	36	64	36
S17	26	34	18	2	46	30	36	80	128	116	78
S19	2	14	18	2	20	38	32	24	8	192	70
S21	2,300	22	675	320	6,400	74	340	5,300	84	6,000	3,814
S22	32	32	6	16	92	10	16	36	44	152	72
S26	12,100	87	156	32	104	38	8	92	100	200	3,646
S27	166	540	6	2	50	12	28	36	68	20	195
S28	58	30	26	6	40	34	8	80	20	44	49
S29	114	20	6	22	75	16	96	96	32	28	75
S30	22	18	10	2	24	6	4	36	8	12	21
S31	4	68	2	8	232	2	4	28	20	12	82

Fecal result = FC / 100ml

UCL – Upper Confidence Limit

V. BASELINE ANALYTICAL RESULTS

Station ID	2020		2021				2022				95% UCL
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
S32	12	112	4	2	16	2	4	4	16	4	38
S33	8	68	2	2	20	6	8	4	56	4	33
S36	32	158	16	34	260	30	8	8	528	152	225
S38	2	54	8	2	319	196	8	24	16	4	130
S40	2	8	10	2	8	30	4	4	40	4	19
S43	8	2	4	2	4	48	28	28	8	4	23
S46	60	120	28	10	320	104	470	450	112	36	280
S47	10	26	98	6	26	148	124	216	8	148	128
S48	14	34	87	12	20	100	88	280	16	64	122
S49	16	30	28	8	60	80	132	230	20	100	113
S50	18	22	40	16	60	116	96	206	160	152	131
S51	94	30	24	12	93	120	80	156	64	120	108
S52	4	40	12	52	86	64	104	184	12	96	99
S53	8	20	20	12	66	24	92	183	20	48	83
S54	22	28	172	2	40	80	96	144	96	128	116
S55	14	12	108	2	72	80	64	370	84	180	166
S56	198	30	106	4	100	124	148	225	20	72	149
S57	24	32	20	12	16	112	68	140	120	44	89
S59	44	12	56	4	100	42	170	28	88	36	89
S60	608	2,200	675	703	764	550	845	220	480	215	1,073
S61	8,900	686	781	2,000	5,400	2,300	3,600	4,900	9,100	7,300	6,452
S62	48	184	550	247	120	40	100	80	132	196	262
S64	36	36	16	10	16	14	24	<4	116	8	51
S65	261	81	12	60	92	20	52	20	88	32	117
S66	340	350	470	280	310	76	202	250	233	8	335
S67	8	40	20	12	8	6	60	20	8	160	64
S68	460	46	10	20	88	290	68	168	100	510	289

Fecal result = FC / 100ml ***UCL – Upper Confidence Limit***

V. BASELINE ANALYTICAL RESULTS

Station ID	2020		2021				2022				95% UCL
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
S70	118	78	84	44	74	204	24	56	56	12	109
S71	330	54	30	20	128	132	12	68	10,800	4	3,259
S72	24	14	28	4	85	68	4	16	13,800	24	4,106
S74	1,009	460	339	330	520	117	128	570	100	460	573
S75	48	100	14	28	18	14	4	28	60	16	51
S76	460	2,100	164	86	697	162	160	250	76	108	810
S77	75	116	8	36	22	28	8	88	48	124	82
S78	380	50	8	70	79	30	136	2,800	68	140	908
S80	70	550	16	12	100	32	722	80	3,800	124	1,274
S81	8,000	4,500	12,200	727	240	5,300	3,500	6,000	1,291	6,000	7,035
S82	590	800	200	520	6,000	167	360	68	40	88	2,009
S83	480	2,300	74	204	350	250	248	480	231	96	879
N8	4	40	20	12	46	20	28	52	18	18	35
J1	2	6	3	2	72	4	4	8	2	12	25
J2	14	10	4	4	12	6	4	20	8	8	12
J5	2	13	1	2	24	4	8	36	17	16	19
K6	4	15	12	2	10	28	4	20	4	5	16
K5	6	72	8	4	32	148	20	20	580	176	216
E4	14	74	16	2	14	24	24	12	8	8	32
E8	32	32	10	4	24	12	112	4	16	20	46
K1	72	76	24	12	44	80	12	16	4	28	55

Fecal result = FC / 100ml

UCL – Upper Confidence Limit

1st QUARTER

JANUARY 1 - MARCH 31, 2022

SHORELINE MONITORING PROGRAM

2022

FECAL COLIFORM (MF) SAMPLE RESULTS

1st QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2022 Fecal Coliform Baseline
1	1/13/2022	S 1	<4	<4	200
2	1/13/2022	S 2	E 40	<4	200
3	1/13/2022	S 3	E 8	<4	200
4	1/13/2022	S 4	E 16	<4	200
5	1/12/2022	S 5	**230***	**E 24**	200
6	1/13/2022	S 6	**220***	**E 40**	200
7	1/4/2022	S 7	**873***	**450**	200
8	1/13/2022	S 8	162	E 52	200
9	1/12/2022	S 9	E 16	E 8	200
10	1/12/2022	S 10	E 52	E 4	200
11	1/12/2022	S 11	E 32	E 20	200
12	1/12/2022	S 12	92	E 8	200
13	1/12/2022	S 13	**697***	**128**	200
14	1/12/2022	S 14	**257***	**180**	200
15	1/26/2022	S 15	E 16	E 8	200
16	1/26/2022	S 16	E 12	E 4	200
17	1/26/2022	S 17	E 36	<4	200
18	1/26/2022	S 19	E 32	<4	200
19	1/26/2022	S 21	**340***	**E 48**	200
20	2/1/2022	S 22	E 16	E 16	200
21	2/22/2022	S 26	E 8	<4	200
22	2/2/2022	S 27	E 28	E 8	200
23	2/2/2022	S 28	E 8	E 24	200
24	2/2/2022	S 29	96	E 12	200
25	2/2/2022	S 30	<4	<4	200
26	2/22/2022	S 31	<4	E4	200
27	2/1/2022	S 32	E 4	<4	200
28	2/1/2022	S 33	E 8	<4	200
29	2/1/2022	S 36	E 8	<4	200
30	1/27/2022	S 38	E 8	<4	200
31	3/1/2022	S 40	E 4	<4	200
32	3/1/2022	S 43	E 28	E 8	200
33	1/27/2022	S 46	**470***	**250**	200
34	2/28/2022	S 47	124	E 24	200
35	2/28/2022	S 48	88	E 20	200
36	2/28/2022	S 49	132	E 20	200
37	2/28/2022	S 50	96	E 16	200
38	2/28/2022	S 51	80	E 24	200
39	2/28/2022	S 52	104	E 16	200

Fecal result = FC/100 ml

** Fecal Coliform Exceedance*

SHORELINE MONITORING PROGRAM

2022

FECAL COLIFORM (MF) SAMPLE RESULTS

1st QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2022 Fecal Coliform Baseline
40	2/28/2022	S 53	92	<4	200
41	2/28/2022	S 54	96	E 28	200
42	2/28/2022	S 55	E 64	E 26	200
43	2/28/2022	S 56	148	E 24	200
44	2/28/2022	S 57	E 68	E 8	200
45	1/12/2022	S 59	170	E 24	200
46	1/4/2022	S 60	**845***	**470**	200
47	1/4/2022	S 61	**3,600***	**1,700**	200
48	1/12/2022	S 62	100	E 12	200
49	1/13/2022	S 64	E 24	<4	200
50	1/13/2022	S 65	E 52	<4	200
51	1/13/2022	S 66	**202***	**E 56**	200
52	1/12/2022	S 67	E 60	E 4	200
53	1/26/2022	S 68	E 68	E 20	200
54	3/1/2022	S 70	E 24	E 16	200
55	3/1/2022	S 71	E 12	E 20	200
56	3/1/2022	S 72	E 4	E 8	200
57	2/1/2022	S 74	128	104	200
58	2/2/2022	S 75	<4	<4	200
59	2/2/2022	S 76	160	E 20	200
60	2/2/2022	S 77	E 8	E 4	200
61	2/2/2022	S 78	136	E 52	200
62	1/12/2022	S 80	**722***	**198**	200
63	1/26/2022	S 81	**3,500***	**E 1,600**	200
64	2/1/2022	S 82	**360***	**184**	200
65	2/2/2022	S 83	**248***	**E 36**	200
66	1/26/2022	N8	E 28	E 8	200
67	2/1/2022	J1	E 4	E 4	200
68	2/2/2022	J2	E 4	<4	200
69	2/1/2022	J5	E 8	E 4	200
70	3/1/2022	K6	<4	E 4	200
71	3/1/2022	K5	E 20	E 20	200
72	1/12/2022	E4	E 24	E 4	200
73	1/13/2022	E8	112	<4	200
74	3/1/2022	K1	E 12	E 4	200

Fecal result = FC/100 ml

** Fecal Coliform Exceedance*

WEATHER REPORT

The first quarter monitoring and sampling of ambient sampling stations began on January 01 and ended on March 31, 2022. During this quarter, all seventy-four (74) sentinel stations were sampled. During this quarter, a total of 19.59 inches of precipitation fell.

MINI-SHORELINE SURVEY RESULTS

S-5: WESTCHESTER CREEK NORTH OF UNIONPORT BRIDGE

A mini-shoreline survey was performed in the middle of January. The investigation included the shoreline along both sides of Westchester Creek. No odor or water discoloration was observed.

S-6: ENTRANCE TO FLUSHING RIVER, W/O WHITESTONE EXPWY

A mini-shoreline survey was performed in the beginning of February. The investigation included the shoreline of the Flushing River between Roosevelt Avenue and 31st Road. No discharge or discoloration was observed.

S-7: BRONX RIVER, SOUTH OF EAST GUN HILL ROAD

A mini-shoreline survey was conducted in the middle of January. The survey targeted the shoreline on both of sides of the Bronx River starting at East Gun Hill Road. No discharge was observed.

S-13: NEWTOWN CREEK N/O GRAND AVENUE BRDIGE

A mini-shoreline survey was performed in the middle of January. The investigation included the shoreline of both sides of Newtown Creek from Metropolitan Avenue to English Kills north of the Grand Avenue Bridge. No discharge or discoloration was observed.

S14: ENTRANCE TO ENGLISH KILLS AT SCOTT STREET

A mini-shoreline survey was performed in the middle of January. The investigation included the shoreline of English Kills between Maspeth Avenue and Grand Street. No discharge or water discoloration was observed.

S-21: ENTRANCE TO CONEY ISLAND CREEK AT KAISER PLAYGROUND

A mini-shoreline survey was performed in the beginning of February. The investigation included the shoreline along Coney Island Creek from West 35th Street to Kaiser Park Playground. No discharge or water discoloration was observed.

S-46: RICHMOND CREEEK & RICHMOND AVENUE

A mini-shoreline survey was performed in the beginning of February. The investigation targeted the shoreline of Richmond Creek on both sides of the Richmond Avenue Bridge. No discharge or water discoloration was observed.

S-60: BRONX RIVER AND EAST 180TH STREET

A mini-shoreline survey was performed in the middle of January. The survey targeted the shoreline on both sides of East 180th Street in the Bronx River. No discharge was observed.

S-61: BRONX RIVER & EAST 241st STREET

A mini-shoreline survey was performed in the middle of January. The investigation covered both sides of the Bronx River between East 241st Street and East 243rd Street. Two (2) outfalls with highly elevated fecal coliform levels, originating from Westchester County were identified to be the source of exceedance at the sentinel station. The Compliance Monitoring Section (CMS) has notified the NYSDEC of this ongoing problem.

S-66: FLUSHING BAY & 31ST AVENUE

A mini-shoreline survey was performed in the beginning of February. The investigation included the area of Flushing Bay between 123rd Street and 28th Avenue. No discharge or discoloration was observed.

S-80: NEWTOWN CREEK UNDER KOSCIUSKO BRIDGE

A mini-shoreline survey was performed in the beginning of January. The investigation included the shoreline of Newtown Creek under the Kosciusko Bridge. No discharge or discoloration was observed.

S-81: CONEY ISLAND CREEK NEAR W 25TH STREET

A mini-shoreline survey was performed in the beginning of February. The investigation included the shoreline along Coney Island Creek from West 15th Street to West 21st Street. No signs of discharge or discoloration was observed.

S-82: SHEEPSHEAD BAY NEAR EXETER STREET

A mini-shoreline survey was performed in the beginning of March. The investigation included the shoreline of Sheepshead Bay from East 21st Street to Shore Boulevard to Girard Street. No discharge or discoloration was observed.

S-83: FRESH CREEK NEAR AVENUE L

A mini-shoreline survey was performed in the beginning of March. The investigation included the shoreline along Fresh Creek Basin from Avenue L to Flatlands Avenue. No discharge or discoloration was observed.

DRY WEATHER DISCHARGE

EAST NEW YORK MTA BUS DEPOT: 25 JAMAICA AVE BROOKLYN

CMS personnel performed a joint investigation with DEP's Emergency Response Unit (ERU) and the NYC Department of Investigation into effluent water from boiler operations entering the NYC sewer system at the East New York MTA Bus Depot. Samples taken for MTBE and TKN and field readings taken for pH, temperature, and air quality were all within range of New York City local discharge limits. The investigation is now closed.

METROPOLITAN AVENUE & BUSHWICK AVENUE

In response to a report by NYS DEC of petroleum odor in the basement of 809 and 811 Metropolitan Avenue, Brooklyn, CMS personnel conducted a joint investigation with the Emergency Response Unit (ERU) of the combined sewer line on Metropolitan Avenue. Petroleum vapors were detected in the air quality readings of the combined sewer. Wastewater samples taken for VOC (MTBE) at two manholes contained elevated levels of gasoline additives including benzene, toluene, and xylene. The elevated levels were determined by CMS personnel and NYS DEC to be caused by leaking tanks from 808 Metropolitan Avenue, a gas station. Due to this, NYS DEC ordered the gas station to be shut down. CMS conducted a follow up with the tenants of 809 and 811 Metropolitan Avenue who reported that the odor ceased once the gas station was closed. This investigation was now transferred to ERU personnel and NYS DEC.

2nd QUARTER

APRIL 1 - JUNE 30, 2022

SHORELINE MONITORING PROGRAM

2022

FECAL COLIFORM (MF) SAMPLE RESULTS

2nd QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2022 Fecal Coliform Baseline
1	4/26/2022	S 1	E 4	<4	200
2	4/26/2022	S 2	E 40	E 4	200
3	4/26/2022	S 3	E 4	<4	200
4	4/26/2022	S 4	E 16	E 4	200
5	4/25/2022	S 5	116	E 16	200
6	4/26/2022	S 6	E 10	164	200
7	5/12/2022	S 7	**370***	**80**	200
8	4/26/2022	S 8	E 12	E4	200
9	4/25/2022	S 9	E 12	<4	200
10	4/25/2022	S 10	E 28	E 8	200
11	4/25/2022	S 11	E 20	E 4	200
12	4/25/2022	S 12	136	E 32	200
13	4/25/2022	S 13	80	E 16	200
14	4/25/2022	S 14	128	E 4	200
15	5/25/2022	S 15	E 60	<4	200
16	5/25/2022	S 16	E 48	<4	200
17	5/25/2022	S 17	80	<4	200
18	5/25/2022	S 19	E 24	<4	200
19	5/25/2022	S 21	**5,300***	**<4**	200
20	5/31/2022	S 22	E 36	<4	200
21	5/23/2022	S 26	92	E 4	200
22	5/23/2022	S 27	E 36	< 4	200
23	5/23/2022	S 28	80	E 30	200
24	5/23/2022	S 29	96	< 4	200
25	5/23/2022	S 30	E 36	< 4	200
26	5/31/2022	S 31	E 28	<4	200
27	5/31/2022	S 32	E 4	<4	200
28	5/31/2022	S 33	E 4	E 4	200
29	5/31/2022	S 36	E 8	<4	200
30	5/24/2022	S 38	E 24	E 20	200
31	5/11/2022	S 40	E 4	<4	200
32	5/11/2022	S 43	E 28	<4	200
33	5/24/2022	S 46	**450***	**216**	200
34	5/10/2022	S 47	**216***	**E 44**	200
35	5/10/2022	S 48	**280***	**E 36**	200
36	5/10/2022	S 49	**230***	**E 24**	200
37	5/10/2022	S 50	**206***	**E 20**	200
38	5/10/2022	S 51	156	E 36	200
39	5/10/2022	S 52	184	E 12	200

Fecal result = FC/100 ml

** Fecal Coliform Exceedance*

Environmental Protection

SHORELINE MONITORING PROGRAM

2022

FECAL COLIFORM (MF) SAMPLE RESULTS

2nd QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2022 Fecal Coliform Baseline
40	5/10/2022	S 53	183	E 16	200
41	5/10/2022	S 54	144	E 28	200
42	5/10/2022	S 55	**370***	**E 20**	200
43	5/10/2022	S 56	**225***	**E 44**	200
44	5/10/2022	S 57	140	E 8	200
45	4/25/2022	S 59	E 28	E 4	200
46	5/12/2022	S 60	**220***	**E 32**	200
47	5/12/2022	S 61	**4,900***	**104**	200
48	4/25/2022	S 62	80	E 20	200
49	4/26/2022	S 64	<4	<4	200
50	4/26/2022	S 65	E 20	<4	200
51	4/26/2022	S 66	**250***	**E 60**	200
52	4/25/2022	S 67	E 20	E 8	200
53	5/25/2022	S 68	168	E 16	200
54	5/11/2022	S 70	E 56	<4	200
55	5/11/2022	S 71	E 68	E 16	200
56	5/11/2022	S 72	E 16	E 4	200
57	5/31/2022	S 74	**570***	**E 24**	200
58	5/23/2022	S 75	E 28	E 8	200
59	5/23/2022	S 76	**250***	**< 4**	200
60	5/23/2022	S 77	88	< 4	200
61	5/23/2022	S 78	**2,800***	**E 48**	200
62	4/25/2022	S 80	80	E 8	200
63	5/25/2022	S 81	**>6,000***	**500**	200
64	5/31/2022	S 82	E 68	E 24	200
65	5/23/2022	S 83	**480***	**E 4**	200
66	5/25/2022	N8	E 52	E 4	200
67	5/31/2022	J1	E 8	<4	200
68	5/23/2022	J2	E 20	<4	200
69	5/31/2022	J5	E 36	<4	200
70	5/11/2022	K6	E 20	<4	200
71	5/11/2022	K5	E 20	E 10	200
72	4/25/2022	E4	E 12	E 8	200
73	4/26/2022	E8	<4	<4	200
74	5/11/2022	K1	E 16	E 4	200

Fecal result = FC/100 ml

** Fecal Coliform Exceedance*

WEATHER REPORT

The second quarter monitoring and sampling of ambient sampling stations began on April 01 and ended on June 30, 2022. During this quarter, all seventy-four (74) sentinel stations were sampled. During this quarter, a total of 11.97 inches of precipitation fell.

MINI-SHORELINE SURVEY RESULTS

S-7: BRONX RIVER SOUTH OF EAST GUN HILL ROAD

A mini-shoreline survey was performed in the end of May. The investigation included the shoreline of both sides of the Bronx River, south of east Gun Hill Road. No discharge or water discoloration was observed.

S-21: ENTRANCE TO CONEY ISLAND CREEK AT KAISER PLAYGROUND

A mini-shoreline survey was conducted in the end of May. The investigation started at West 32nd Street, proceeded eastward to West 20th Street, covering the shoreline and the surrounding area. No discharge or water discoloration was observed.

S-46: RICHMOND CREEK AND RICHMOND AVENUE (EASTSIDE)

A mini-shoreline survey was conducted in the end of May. The investigation included the shoreline of both sides of Richmond Avenue at Richmond Creek. No discharge or water discoloration was observed.

S-47: HUDSON RIVER & W. 233RD STREET

A mini-shoreline survey was conducted in the middle of May. The investigation included the shoreline of the Hudson River at W 233rd Street. No discharge or water discoloration was observed.

S-48: HUDSON RIVER UNDER GEORGE WASHINGTON BRIDGE

A mini-shoreline survey was conducted in the middle of May. The investigation included the shoreline of the Hudson River under the George Washington Bridge. No discharge or water discoloration was observed

S-49: HUDSON RIVER & W.135TH STREET

A mini-shoreline survey was conducted in the middle of May. The investigation included the shoreline of the Hudson River at W 135th Street. No discharge or water discoloration was observed.

S-50: HUDSON RIVER & W. 86TH STREET

A mini-shoreline survey was conducted in the middle of May. The investigation included the shoreline of the Hudson River at W 86th Street. No discharge or water discoloration was observed.

S-55: HARLEM RIVER & SHERMAN CREEK

A mini-shoreline survey was conducted in the middle of May. The investigation included the shoreline of Sherman Creek. No discharge or water discoloration was observed.

S-56: HARLEM RIVER & W. 170TH STREET

A mini-shoreline survey was conducted in the middle of May. The investigation included the shoreline of Harlem River at 170th Street. No discharge or water discoloration was observed.

S-60: BRONX RIVER & EAST 180TH STREET

A mini-shoreline survey was performed in the end of May. The investigation included the shoreline of the Bronx River on both sides of East 180th Street. No discharge or water discoloration was observed.

S-61: BRONX RIVER & EAST 241ST STREET

A mini-shoreline survey was performed in the end of May. The investigation covered both sides of the Bronx River between East 241st Street and East 243rd Street. Two (2) outfalls with highly elevated fecal coliform levels, originating from Westchester County were identified to be the source of exceedance at the sentinel station. The Compliance Monitoring Section (CMS) has notified the NYSDEC of this ongoing problem.

S-66: FLUSHING BAY 31ST AVENUE

A mini-shoreline survey was performed in the end of April. The investigation included the area of Flushing Bay between 123rd Street and 28th Avenue. No discharge or water discoloration was observed.

S-74: SHEEPSHEAD BAY & NOSTRAND AVENUE

A mini-shoreline survey was performed at the beginning of June. The investigation targeted the shoreline of Sheepshead Bay. No discharge or water discoloration was observed.

S-76: FRESH CREEK BASIN & AVENUE N

A mini-shoreline survey was conducted in the end of May. The investigation included the shoreline of Fresh Creek at Avenue N. No discharge or water discoloration was observed.

S-78: BERGEN BASIN & 163RD AVENUE

A mini-shoreline survey was conducted in the middle of May. The investigation included the shoreline of Bergen Basin. No discharge or water discoloration was observed.

S-81: CONEY ISLAND CREEK NEAR W 25TH STREET

A mini-shoreline survey was performed at the end of May. The investigation included the shoreline along Coney Island Creek from West 15th Street to West 21st Street. No signs of discharge or discoloration was observed.

S-83: FRESH CREEK NEAR AVENUE L

A mini-shoreline survey was performed in the end of May. The investigation included the shoreline along Fresh Creek Basin from Avenue L to Flatlands Avenue. No signs of discharge or discoloration was observed.

DRY WEATHER DISCHARGE

PR-1910 – CLOVE LAKE

In response to a report from NYC Parks & Recreation of a discharge observed in Clove Lake, CMS personnel investigated the outfalls at Clove Lake on Victory Boulevard. CMS observed a green coloration to the waterway and abundant foam bubbles exiting the western barrel of outfall PR-1910. A strong petroleum odor was present. CMS then traced a source of the sewer lines to PR-1910 to the Department of Education (DOE) Michael J. Petrides School. A safety officer at the school stated that construction was underway for the development of a new school at the rear of the. CMS personnel observed that construction was indeed underway and on the sewer line to PR-1910. CMS personnel returned to the site and spoke with site superintendent. A site erosion and sediment control plan was produced but no permits were listed for groundwater or stormwater dewatering operations. Commissioner's Order #E60993 was distributed to the construction group to cease discharge into the storm sewer and prevent discharge of any wastewater and construction material into the storm sewer directly or indirectly without prior written approval. CMS returned and observed the construction firm in compliance as of 4/20/2022.

3082 EMMONS AVE – 11 WALDANE COURT, SHEEPSHEAD BAY, BROOKLYN

As part of an investigation by BWT Emergency Response Unit, Compliance Monitoring Section (CMS) personnel conducted an inspection of 11 Waldane Court (3082 Emmons Avenue) in Sheepshead Bay. CMS personnel found two approximately 8-inch black pipes extending out towards the Bay from the rear of the property. No discoloration, odor, or discharge was present in Sheepshead Bay from the pipes. Dye was poured into the two bathrooms of the property. The dye was observed in the manhole of a private sewer fronting the property. CMS poured additional dye in the manhole and observed the dye in the DEP owned sanitary sewer on Emmons Avenue No dye was found in Sheepshead Bay. The pipes were found to be drainage pipes from the roof of the property. The investigation is now closed.

705 ILYSSA WAY – ASPEN KNOLLS, STATEN ISLAND

As part of a request to investigate a report of sewer discharge in Staten Island, Compliance Monitoring Section (CMS) personnel conducted an investigation at Aspen Knolls of the sewer line on Ilyssa Way. CMS observed an uncapped pipe with sanitary sewer discharge exiting from the property of 705 Ilyssa Way. Because the property is privately owned, the sewer discharge is from private property, and the catch basins that receive the sewer discharge are privately owned, enter privately owned dry wells, and are not part of the MS4, the case is not under NYC DEP jurisdiction. The case has been referred to NYS DEC.

3rd QUARTER

JULY 1 - SEPTEMBER 30, 2022

SHORELINE MONITORING PROGRAM

2022

FECAL COLIFORM (MF) SAMPLE RESULTS

3rd QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2022 Fecal Coliform Baseline
1	7/11/2022	S 1	**245***	**E 36**	200
2	7/11/2022	S 2	E 28	<4	200
3	7/5/2022	S 3	E 4	<4	200
4	7/11/2022	S 4	E 12	E 8	200
5	7/11/2022	S 5	124	E 24	200
6	7/11/2022	S 6	**E 10,700***	**E 60**	200
7	7/21/2022	S 7	**E 7,500***	**E 600**	200
8	7/11/2022	S 8	E7 6	E4	200
9	7/5/2022	S 9	E 8	E 12	200
10	7/5/2022	S 10	E 16	<4	200
11	7/5/2022	S 11	E 24	E 12	200
12	7/5/2022	S 12	120	<4	200
13	7/5/2022	S 13	E 56	<4	200
14	7/5/2022	S 14	E 32	<4	200
15	8/17/2022	S 15	E 20	E 10	200
16	8/17/2022	S 16	E 36	E 8	200
17	8/17/2022	S 17	128	<4	200
18	8/17/2022	S 19	E 8	<4	200
19	8/17/2022	S 21	84	<4	200
20	8/15/2022	S 22	E 44	<4	200
21	7/13/2022	S 26	100	E 16	200
22	7/13/2022	S 27	E 68	E 24	200
23	7/13/2022	S 28	E 20	E 20	200
24	7/13/2022	S 29	E 32	E 8	200
25	7/13/2022	S 30	E 8	E 64	200
26	8/15/2022	S 31	E 20	<4	200
27	8/15/2022	S 32	E 16	<4	200
28	8/15/2022	S 33	E 56	<4	200
29	8/15/2022	S 36	**528***	**<4**	200
30	8/9/2022	S 38	16	<4	200
31	7/25/2022	S 40	<40	<4	200
32	7/25/2022	S 43	E 8	<4	200
33	8/9/2022	S 46	112	E 44	200
34	7/12/2022	S 47	E 8	E 8	200
35	7/12/2022	S 48	E 16	E 20	200
36	7/12/2022	S 49	E 20	E 16	200
37	7/12/2022	S 50	160	E 16	200
38	7/12/2022	S 51	E 64	E 12	200
39	7/12/2022	S 52	E 12	E 4	200

Fecal result = FC/100 ml

** Fecal Coliform Exceedance*

SHORELINE MONITORING PROGRAM

2022

FECAL COLIFORM (MF) SAMPLE RESULTS

3rd QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2022 Fecal Coliform Baseline
40	7/12/2022	S 53	E 20	<4	200
41	7/12/2022	S 54	96	E 32	200
42	7/12/2022	S 55	84	E 32	200
43	7/12/2022	S 56	E 20	E 44	200
44	7/12/2022	S 57	120	88	200
45	7/5/2022	S 59	88	E 24	200
46	8/4/2022	S 60	**480***	**104**	200
47	7/21/2022	S 61	**E 9,100***	**600**	200
48	7/5/2022	S 62	132	E 8	200
49	7/11/2022	S 64	116	E 8	200
50	7/11/2022	S 65	88	<4	200
51	7/11/2022	S 66	**233***	**<4**	200
52	7/5/2022	S 67	E 8	<4	200
53	8/17/2022	S 68	100	E 32	200
54	7/25/2022	S 70	E 56	E 4	200
55	7/25/2022	S 71	**10,800***	**E 40**	200
56	7/25/2022	S 72	**13,800***	**116**	200
57	8/17/2022	S 74	100	E 32	200
58	7/13/2022	S 75	E 60	88	200
59	7/13/2022	S 76	E 76	E 32	200
60	7/13/2022	S 77	E 48	E 4	200
61	7/13/2022	S 78	E 68	E 10	200
62	7/5/2022	S 80	**3,800***	**164**	200
63	8/17/2022	S 81	**1,291***	**E 16**	200
64	8/15/2022	S 82	E 40	<4	200
65	7/13/2022	S 83	**231***	**E 28**	200
66	8/3/2022	N8	E 18	<1	200
67	8/8/2022	J1	2	<1	200
68	7/13/2022	J2	E 8	<4	200
69	8/8/2022	J5	17	<1	200
70	7/25/2022	K6	<4	<4	200
71	7/25/2022	K5	**580***	**<4**	200
72	7/5/2022	E4	E 8	<4	200
73	7/11/2022	E8	E 16	<4	200
74	7/25/2022	K1	E 4	<4	200

Fecal result = FC/100 ml

** Fecal Coliform Exceedance*

WEATHER REPORT

The third quarter monitoring and sampling of ambient sampling stations began on July 1 and ended on September 30, 2022. During this quarter, all seventy-four (74) sentinel stations were sampled. During this quarter, a total of 4.10 inches of precipitation fell.

MINI-SHORELINE SURVEY RESULTS

S-1: ALLEY CREEK & NORTHERN BOULEVARD (NORTHSIDE)

A mini-shoreline survey was performed in the middle of July. The investigation included the shoreline of both sides of Northern Boulevard in Alley Creek. No odor or water discoloration was observed.

S-6: ENTRANCE TO FLUSHING RIVER, W/O WHITESTONE EXPWY

A mini-shoreline survey was performed in the middle of July. The investigation included the shoreline of both sides Flushing River between Roosevelt Avenue and 31st Road. No discharge or water discoloration was observed.

S-7: BRONX RIVER, SOUTH OF EAST GUN HILL ROAD

A mini-shoreline survey was conducted in the end of July. The survey targeted the shoreline on both of sides of the Bronx River starting at East Gun Hill Road. No discharge was observed

S-36: ENTRANCE TO BARBADOES BASIN AT BEACH 83RD STREET

A mini-shoreline survey was performed at the end of August. The investigation included the shoreline of both sides of Barbados Basin from Beach 83rd Street. No discharge or water discoloration was observed.

S-60: BRONX RIVER & EAST 180TH STREET

A mini-shoreline survey was performed in the middle of July. The investigation included the shoreline of the Bronx River on both sides of East 180th Street. No discharge or water discoloration was observed.

S-61: BRONX RIVER & EAST 241ST STREET

A mini-shoreline survey was performed at the end of August. The investigation included the shoreline of the Bronx River north of East 241st Street. No discharge or water discoloration was observed.

S-66: FLUSHING BAY & 31st AVENUE

A mini-shoreline survey was performed in the middle of July. The investigation included the shoreline of Flushing Bay at the end of 31st Avenue. No discharge or water discoloration was observed.

S-71: ARTHUR KILL, EAST OF PRALLS ISLAND

A mini-shoreline survey was performed at the end of July. The investigation included the shoreline of Arthur Kill off of River Road. No discharge or water discoloration was observed.

S-72: ARTHUR KILL & FRESH KILLS

A mini-shoreline survey was performed at the end of July. The investigation included the shoreline of Fresh Kills Landfill at Cedar Point. No discharge or water discoloration was observed.

S-80: NEWTOWN CREEK UNDER KOSCIUSKO BRIDGE

A mini-shoreline survey was performed in the beginning of July. The investigation included the shoreline of Newtown Creek under the Kosciusko Bridge. No discharge or discoloration was observed.

S-81: CONEY ISLAND CREEK NEAR W 25TH STREET

A mini-shoreline survey was performed in the end of August. The investigation included the shoreline along Coney Island Creek from West 15th Street to West 21st Street. No signs of discharge or discoloration was observed.

S-83: FRESH CREEK NEAR AVENUE L

A mini-shoreline survey was performed in the end of July. The investigation included the shoreline along Fresh Creek Basin from Avenue L to Flatlands Avenue. No discharge or discoloration was observed.

K5: ONE-HALF OF THE DISTANCE FROM THE FORMER TOTTENVILLE FERRY SLIP AT PERTH AMBOY TO THE STATEN ISLAND SHORE

A mini-shoreline survey was performed in the end of July. The investigation included the shoreline along Tottenville from Amboy Road to Shore Road. No discharge or discoloration was observed.

DRY WEATHER DISCHARGE

HP-010 BRONX RIVER (E), LACOMBE AVE

An investigation to abate the source(s) of contaminated dry-weather discharge from the CSO designated as HP-010 is still ongoing.

The Bureau of Wastewater Treatment's Compliance Monitoring Section (CMS) has referred the case to the Bureau of Water and Sewer Operations (BWSO) for further investigation. BWSO has relined the sewer and raised to grade level all storm manholes tributary to HP-010. CMS personnel is in the process of verifying the repairs by dye-testing the area.

An extension of six (6) months was therefore requested on August 28, 2022, to complete this investigation. Please refer to Item Number 3374.

BB-008 – 108TH STREET AND 37TH AVENUE

In response to a referral from the Department of Environmental Protection's Bureau of Wastewater (BWT), Collection Facilities North, of a possible illegal connection to a storm sewer tributary to BB-008, BWT personnel started an investigation in the vicinity of 108th Street and 37th Avenue.

The investigation to identify the source(s) of the dry weather discharge at the outfall is still ongoing. The Bureau of Engineering Design and Construction (BEDC) completed a project modifying the weir levels and capacities in some of the regulators that discharge to BB-008 to optimize CSO capture. CMS personnel and Collection Facilities will investigate all the regulators and storm sewer tributaries to BB-008 to verify the completion of BEDC work and to identify other sources. Since this is an outfall that is tidally impacted, investigations can only be conducted during low tide.

An extension of six (6) months was therefore requested on August 28, 2022, to complete the review of the work completed and to conduct additional investigations of the storm sewer tributary to BB-008.

NCB-083 – 154 SCOTT AVENUE

In response to a request regarding a possible dry weather discharge at outfall NCB-083, Compliance Monitoring Section (CMS) personnel conducted an investigation at 154 Scott Avenue, Brooklyn NY, 11237.CMS personnel dye tested the building and confirmed that the building's sanitary line is connected to the storm sewer line. Commissioner's Order, No. 68538, was issued to the building owner to eliminate the illegal connection to the storm sewer and connect to the sanitary sewer fronting the property immediately. As the property owner has plans to install two (2) industrial sized kitchens, an additional request was made for an industrial waste discharge permit. The owner is currently awaiting permit distributions to begin work. An extension of six (6) months is therefore requested to complete this investigation. Please refer to Item Number 5618.

4th QUARTER

OCTOBER 1 - DECEMBER 31, 2022

SHORELINE MONITORING PROGRAM

2022

FECAL COLIFORM (MF) SAMPLE RESULTS

4th QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2022 Fecal Coliform Baseline
1	11/22/2022	S 1	E 36	E 16	200
2	11/22/2022	S 2	E 28	E 8	200
3	10/31/2022	S 3	E 4	<4	200
4	11/22/2022	S 4	E 36	E 8	200
5	10/31/2022	S 5	**533***	**88**	200
6	11/22/2022	S 6	**2,000***	**540**	200
7	10/20/2022	S 7	**873***	**136**	200
8	11/22/2022	S 8	E 36	E 8	200
9	10/31/2022	S 9	E 16	<4	200
10	10/31/2022	S 10	E 16	E 8	200
11	10/31/2022	S 11	E 20	E 12	200
12	10/31/2022	S 12	E 40	E 8	200
13	10/31/2022	S 13	**229***	**<4**	200
14	10/31/2022	S 14	E 56	<4	200
15	11/3/2022	S 15	**226***	**E 12**	200
16	11/3/2022	S 16	E 64	E 44	200
17	11/3/2022	S 17	116	E 12	200
18	11/3/2022	S 19	192	E 16	200
19	11/3/2022	S 21	**>6,000***	**E 1,800**	200
20	12/20/2022	S 22	152	172	200
21	12/6/2022	S 26	**E 200***	**<4**	200
22	12/6/2022	S 27	E 20	E 8	200
23	12/6/2022	S 28	E 44	E 8	200
24	12/6/2022	S 29	E 28	E 12	200
25	12/6/2022	S 30	E 12	E 4	200
26	12/14/2022	S 31	E 12	E 4	200
27	12/14/2022	S 32	E 4	<4	200
28	12/14/2022	S 33	<4	<4	200
29	12/14/2022	S 36	152	E 43	200
30	12/14/2022	S 38	E 4	E 16	200
31	11/23/2022	S 40	<4	<4	200
32	11/23/2022	S 43	<4	<4	200
33	12/14/2022	S 46	E 36	E 44	200
34	11/21/2022	S 47	148	E 8	200
35	11/21/2022	S 48	E 64	<4	200
36	11/21/2022	S 49	100	E 8	200
37	11/21/2022	S 50	152	<4	200
38	11/21/2022	S 51	120	E 8	200
39	11/21/2022	S 52	96	E 4	200

Fecal result = FC/100 ml

** Fecal Coliform Exceedance*

SHORELINE MONITORING PROGRAM

2022

FECAL COLIFORM (MF) SAMPLE RESULTS

4th QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2022 Fecal Coliform Baseline
40	11/21/2022	S 53	E 48	E 4	200
41	11/21/2022	S 54	128	E 8	200
42	11/21/2022	S 55	180	E 12	200
43	11/21/2022	S 56	E 72	E 8	200
44	11/21/2022	S 57	E 44	<4	200
45	10/31/2022	S 59	E 36	E 32	200
46	10/20/2022	S 60	**215***	**E 32**	200
47	10/20/2022	S 61	**E 7,300***	**540**	200
48	10/31/2022	S 62	196	E 44	200
49	11/22/2022	S 64	E 8	E 4	200
50	11/22/2022	S 65	E 32	E 4	200
51	11/22/2022	S 66	E8	E 20	200
52	10/31/2022	S 67	160	E 20	200
53	11/3/2022	S 68	**510***	**E 32**	200
54	11/23/2022	S 70	E 12	<4	200
55	11/23/2022	S 71	E 4	<4	200
56	11/23/2022	S 72	E 24	<4	200
57	12/14/2022	S 74	**460***	**92**	200
58	12/6/2022	S 75	E 16	<4	200
59	12/6/2022	S 76	108	E 8	200
60	12/6/2022	S 77	124	E 8	200
61	12/6/2022	S 78	140	E 44	200
62	10/31/2022	S 80	124	E 16	200
63	11/3/2022	S 81	**>6,000***	**2,700**	200
64	12/14/2022	S 82	88	E 20	200
65	12/6/2022	S 83	96	E 40	200
66	11/3/2022	N8	E 18	2	200
67	12/14/2022	J1	E 12	<4	200
68	12/6/2022	J2	E8	<4	200
69	12/14/2022	J5	E 16	<4	200
70	11/3/2022	K6	5	<1	200
71	11/3/2022	K5	176	29	200
72	10/31/2022	E4	E 8	<4	200
73	11/22/2022	E8	E 20	<4	200
74	11/3/2022	K1	E 28	2	200

Fecal result = FC/100 ml

** Fecal Coliform Exceedance*

WEATHER REPORT

The fourth quarter monitoring and sampling of ambient sampling stations began on October 01 and ended on December 31, 2022. During this quarter, all seventy-four (74) sentinel stations were sampled. During this quarter, a total of 14.06 inches of precipitation fell.

MINI-SHORELINE SURVEY RESULTS

S-5: WESTCHESTER CREEK NORTH OF UNIONPORT BRIDGE

A mini-shoreline survey was performed in the beginning of November. The investigation included the shoreline along both sides of Westchester Creek. No odor or water discoloration was observed.

S-6: ENTRANCE TO FLUSHING RIVER, W/O WHITESTONE EXPWY

A mini-shoreline survey was performed in the middle of November. The investigation included the shoreline of both sides of the Flushing River from Northern Boulevard to 127th street. No odor or water discoloration was observed.

S-7: BRONX RIVER SOUTH OF EAST GUN HILL ROAD

A mini-shoreline survey was performed in the end of October. The investigation included the shoreline of both sides of the Bronx River, south of east Gun Hill Road. No discharge or water discoloration was observed.

S-13: NEWTOWN CREEK N/O GRAND AVENUE BRDIGE

A mini-shoreline survey was performed in the beginning of November. The investigation included the shoreline of both sides of Newtown Creek from Metropolitan Avenue to English Kills north of the Grand Avenue Bridge. No discharge or water discoloration was observed

S-15: ENTRANCE TO BUSHWICK INLET

A mini-shoreline survey was performed in the beginning of November. The investigation included the shoreline of both sides of Bushwick Inlet and in the East River. No discharge or water discoloration was observed.

S-21: ENTRANCE TO CONEY ISLAND CREEL AT KAISER PLAYGROUND

A mini-shoreline survey was performed in the beginning of November. The investigation included the shoreline of both sides Coney Island Creek at Kaiser Park Playground. No discharge or water discoloration was observed.

S-26: PAERDEGAT BASIN & AVENUE K MARINA

A mini-shoreline survey was performed in the end of December. The investigation included the shoreline of Paerdegat Basin along Avenue K. No discharge or water discoloration was observed.

S-60: BRONX RIVER & EAST 180TH STREET

A mini-shoreline survey was performed in the end of October. The investigation included the shoreline of the Bronx River on both sides of East 180th Street. No discharge or water discoloration was observed.

S-61: BRONX RIVER & EAST 241ST STREET

A mini-shoreline survey was performed in the end of October. The investigation included the shoreline of the Bronx River north of East 241st Street. Discharge was observed from two (2) MS4 outfalls [HP-626 & HP-650] as well as an outfall on the Yonkers side of Bronx River. The Compliance Monitoring Section (CMS) has notified NYS DEC of this ongoing problem.

S-68: GOWANUS BAY E/O HAMILTON AVENUE BRIDGE

A mini-shoreline survey was performed in the beginning of November. The investigation included the shoreline of Gowanus Bay east and west of the Hamilton Avenue Bridge. No discharge or water discoloration was observed.

S-74: SHEEPSHEAD BAY & NOSTRAND AVENUE

A mini-shoreline survey was performed in the middle of November. The investigation included the shoreline of Kill Van Kull to the west and east of the Bayonne Bridge. No discharge or water discoloration was observed.

S-81: CONEY ISLAND CREEK NEAR W 25TH STREET

A mini-shoreline survey was performed in the beginning of November. The investigation included the shoreline along Coney Island Creek from West 15th Street to West 21st Street. No signs of discharge or discoloration was observed.

DRY WEATHER DISCHARGE

CI-636 – ROCKAWAY PARKWAY, CANARSIE, BROOKLYN

As part of a referral from BWSO for inspections into connections observed in the storm sewer to CI-636 on Rockaway Parkway, Compliance Monitoring Section (CMS) personnel conducted dye tests of eight (8) properties on Rockaway Parkway in Canarsie, Brooklyn. The following six (6) properties were found to be properly connected to the sanitary sewer:

1765 Rockaway Parkway	1777 Rockaway Parkway	1781 Rockaway Parkway
1783 Rockaway Parkway	1787 Rockaway Parkway	1799 Rockaway Parkway

The remaining two (2) properties were found to have improper connection to the storm sewer:

1811 Rockaway Parkway
1839 Rockaway Parkway

Commissioner's Orders were distributed to the owners of 1839 Rockaway Parkway and 1811 Rockaway Parkway. Please refer to Item Numbers 5644 and 5645. Additional inspection will be conducted. CMS personnel will continue to perform dye testing in the area to identify any

other illegal connections to the storm sewer tributary to CI-636.

NCB-024 – 16 DUPONT STREET

As part of a request from upper management, Compliance Monitoring Section (CMS) personnel conducted an investigation with DEP's ERU into muddy discharge reported by Newtown Creek Alliance in East River near NCB-024 from a nearby construction site, 16 Dupont Street, a future high-rise development. The issue for the site pertained to direct discharge from dewatering /pile driving activities leading to a catch basin on Dupont Street. The direct discharge to the catch basin from the site was permitted. The catch basin was believed to be connected upstream of regulator NCB15. In the site permit, a drawing of the catch basin was found with a connection upstream of the regulator. As per current BWSO sewer maps, the catch basins in the area are not connected upstream of regulator and lead directly to the storm sewer to outfall NCB-024. Therefore, permitted dewatering discharge was entering the East River. The site superintendent stated that because of a meeting with DEC personnel and an inconsistency in the permit, the site was now allowed to relocate the direct discharge. The investigation has been referred to DEP's ERU and BWSO and BCS.

OH-015 -GRAVESEND BAY

In response to a request from BWSO regarding discharge into the storm sewer to OH-015, Compliance Monitoring Section (CMS) personnel conducted an investigation at 1143 Shore Parkway. CMS personnel dye tested the building and confirmed that the building's sanitary line is connected to the storm sewer line. Commissioner's Order, No. 68539, was issued to the building owner to eliminate the illegal connection to the storm sewer and connect to the sanitary sewer fronting the property immediately. The establishment has complied with the Commissioner's Order. CMS performed the last dye test at 1143 Shore Parkway on 11/10/2022 and verified that the establishment has eliminated their connection to the storm sewer. Please refer to Item Number 5632. CMS will continue to investigate the sewer line for possible illicit discharges to the outfall.

OH-197

In response to a request from NYSDEC regarding a possible dry weather discharge at the outfall, OH-197, Compliance Monitoring Section (CMS) personnel conducted a joint investigation and a dye-test with NYSDEC personnel at 140 58th St, Brooklyn, NY, 11220.

CMS personnel investigated the establishment to verify if corrective measures were taken after the previous owner, Alma Bank, went out of business. The establishment is currently empty, and a Commissioner Order was issued to the property owner, New York City Economic Development Corporation, to disconnect from the storm sewer and connect to the sanitary sewer fronting the property.

An extension of six (6) months was therefore requested that required the property owner, New York City Economic Development Corporation, to disconnect from the storm sewer. Please refer to Item Number 5514.

TI-684 – ALLEY CREEK

The Combined Sewer Overflow outfall designated TI-024 has been reclassified as a storm outfall TI-684.

In response to a civilian complaint to the 311 call-center of a dry weather discharge at TI-684, DEP's Compliance Monitoring Section (CMS) personnel collected fecal coliform samples from the outfall and started an investigation to determine the source(s) of the discharge. Lab result revealed elevated levels of fecal contamination in the samples.

As part of an ongoing investigation to identify any improper storm sewer connections tributary to the outfall TI-684, CMS personnel dye tested two hundred and twenty-two establishments. The following two hundred ten were found to be properly connected to the sanitary sewer:

240-29 67th Ave	240-39 67th Ave	240-57 67th Ave
240-53 67th Ave	240-55 67th Ave	240-41 67th Ave
240-67 67th Ave	240-78 67th Ave	240-70 67th Ave
240-30 67th Ave	240-11 67th Ave	240-18 67th Ave
240-16 67th Ave	240-64 67th Ave	239-45 66th Ave
239-41 66th Ave	239-29 66th Ave	239-31 66th Ave
239-51 66th Ave	239-25 66th Ave	240-31 67th Ave
240-36 67th Ave	240-35 67th Ave	240-59 67th Ave
240-63 67th Ave	240-83 67th Ave	240-75 67th Ave
240-47 67th Ave	240-60 67th Ave	240-73 67th Ave
240-19 67th Ave	240-15 67th Ave	240-01 67th Ave
240-06 67th Ave	240-66 67th Ave	239-35 66th Ave
239-53 66th Ave	239-36 66th Ave	240-33 67th Ave
240-28 67th Ave	240-37 67th Ave	240-34 67th Ave
240-61 67th Ave	240-72 67th Ave	240-52 67th Ave
240-76 67th Ave	240-17 67th Ave	240-42 67th Ave
240-12 67th Ave	240-07 67th Ave	240-49 67th Ave
239-43 66th Ave	239-42 66th Ave	239-55 66th Ave
239-44 66th Ave	239-27 66th Ave	240-05 67th Ave
240-45 67th Ave	240-43 67th Ave	240-27 67th Ave
240-51 67th Ave	240-69 67th Ave	240-65 67th Ave
240-79 67th Ave	240-48 67th Ave	240-58 67th Ave
240-40 67th Ave	240-20 67th Ave	240-22 67th Ave
240-46 67th Ave	239-47 66th Ave	240-03 67th Ave
239-39 66th Ave	239-37 66th Ave	239-19 66th Ave
239-54 66th Ave	240-12 66th Ave	239-50 66th Ave
239-46 66th Ave	240-17 65th Ave	240-23 65th Ave
240-28 66th Ave	239-30 66th Ave	239-56 66th Ave
240-02 66th Ave	240-14 66th Ave	240-71 66th Ave
240-16 66th Ave	240-20 66th Ave	240-07 66th Ave
240-17 66th Ave	240-04 66th Ave	240-06 66th Ave
239-48 65th Ave	239-52 65th Ave	239-54 65th Ave
239-29 65th Ave	239-35 65th Ave	239-33 65th Ave
239-37 65th Ave	240-33 65th Ave	239-49 65th Ave
240-37 66th Ave	239-47 65th Ave	239-51 65th Ave

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

The remaining twelve establishments as follows, were found to have improper connection to the storm sewer, and were issued Commissioner's Order:

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

All of the above properties complied with the issued Commissioner’s Orders by removing the illegal connections from the storm sewer. CMS personnel will continue to perform dye testing in the area to identify any other illegal connections to the storm sewer tributary to the TI-684 outfall. Repairs were made to the sewer line adjacent to the outfall chamber. DEP’s Bureau of Water and Sewer Operations (BWSO) is conducting additional repairs of the grit chamber

upstream of the outfall. DEP's Bureau of Wastewater Treatment (BWT) is conducting dye tests to determine the source of the discharge to the outfall. An extension of six (6) months was therefore requested on December 5, 2022, to complete this investigation. Please refer to Item Number 4558.

VII. UNAUTHORIZED NON-STORM WATER DISCHARGES

DEP's Emergency Response Unit (ERU) tracks and responds to incidents of spills and illegal discharges to the NYC sewer system. These constitute unauthorized non-storm-water discharges under the New York City MS4 Permit. In accordance with an agreement between DEP and DEC, DEP will report citywide information on spills and illegal discharges to meet the requirement in MS4 Permit Part IV.D.5 through 2022, when DEP will submit the final MS4 map and can identify all spills and discharges located in the MS4.

The Table below includes ERU's complaint response tracking information for calendar year 2022, which includes the types and number of complaints received and responded to.

	Nature of Complaint		**Total for 2022**
1.	Oil		161
2.	Gasoline/Explosivity		76
3.	Chemicals		71
4.	Odors		77
5.	Wastewater/Concrete		455
6.	Discharge to Receiving Water		55
7.	Miscellaneous		314
		Sub Total	1209
8a.	Complaints received & referred to others		95
8b.	Follow-up-Inspections		668
		Total	1972