

INTEGRATED SENTINEL MONITORING REPORT 2021



**Environmental
Protection**

Eric Adams
Mayor

Rohit T. Aggarwala
Commissioner &
NYC Chief Climate Officer

June 30, 2022



Rohit T. Aggarwala
Commissioner

Pam Elardo, P.E.
Deputy Commissioner
Bureau of Wastewater Treatment

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Mr. Selvin Southwell, P.E.,
Regional Water Engineer
New York State Department of
Environmental Conservation
Division of Water - Region II
47-40 21st Street -4th Floor
Long Island City, NY 11101-5407

Re: 2021 Integrated Sentinel Monitoring Report

Dear Mr. Southwell:

Pursuant to the State Pollutant Discharge Elimination System permit and in accordance with the section for Untreated Discharges, and the Municipal Separate Storm Sewer System permit section for Illicit Discharge Detection and Elimination, attached is the Department of Environmental Protection's Integrated Sentinel Monitoring report for 2021.

Sincerely,


DocuSigned by:

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Pamela Elardo,
P.E. Deputy Commissioner

TABLE OF CONTENTS

	Page
I. Table of Contents	i
II. Introduction	1
III. Operational Plan	2
IV. Survey Statistics & Sampling Site Map	2 – 3
V. Sampling Stations	4 – 6
VI. Baseline Analytical Results	7 – 9
 VII. QUARTERLY REPORTS	
 1. January 1-March 31, 2021	 10
a. Analytical Results	11 – 12
b. Weather Report	13
c. Mini-Shoreline Survey Results	13 – 14
d. Dry Weather Discharges	14 – 15
 2. April 1- June 30, 2021	 16
a. Analytical Results	17 – 18
b. Weather Report	19
c. Mini-Shoreline Survey Results	19 – 20
d. Dry Weather Discharges	20
 3. July 1-September 30, 2021	 21
a. Analytical Results	22 – 23
b. Weather Report	24
c. Mini-Shoreline Survey Results	24 – 26
d. Dry Weather Discharges	26
 4. October 1-December 31, 2021	 27
a. Analytical Results	28 – 29
b. Weather Report	30
c. Mini-Shoreline Survey Results	30 – 31
d. Dry Weather Discharges	31 – 34
 VIII UNAUTHORIZED NON-STORMWATER DISCHARGES	 35

INTRODUCTION

The Shoreline Survey Program-Cycle II conducted by the Bureau of Wastewater Treatment's Compliance Monitoring Section (CMS) between 1998 and 2021 has resulted in the identification of 5,396 outfalls including 417 Combined Sewer Overflows (CSO), 542 storm outfalls and other outfalls such as highway drains and non-city owned drains. A total of 418 contaminated discharges representing a flow of 4.44 MGD were identified. Since then, 409 of these contaminated discharges have been abated, representing a flow of 4.41 MGD, of which 268 discharging pipes are city-owned and the remainder, 150, falls under the jurisdiction of NYSDEC. Currently NYCDEP has seven (7) 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 has performed sentinel monitoring at eighty (80) ambient monitoring stations in accordance with the current SPDES permit Storm-Water 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.

OPERATIONAL PLAN

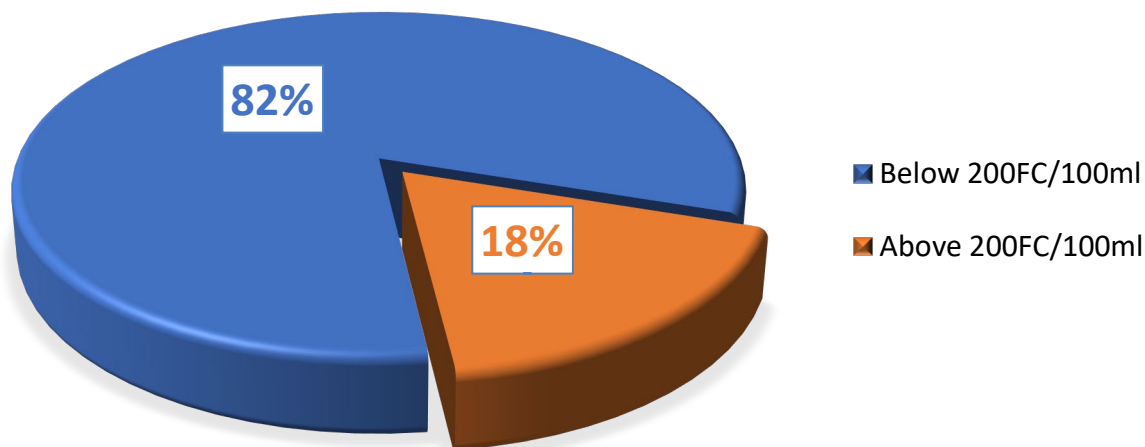
For 2021, an interim baseline of 200 fecal/100 mL, based on NYSDEC water quality standards, was assigned to all 74 sentinel stations. A mini-shoreline investigation was conducted for any exceedance of this baseline. In addition, Enterococci samples were collected from all 74 sentinel stations in each 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.

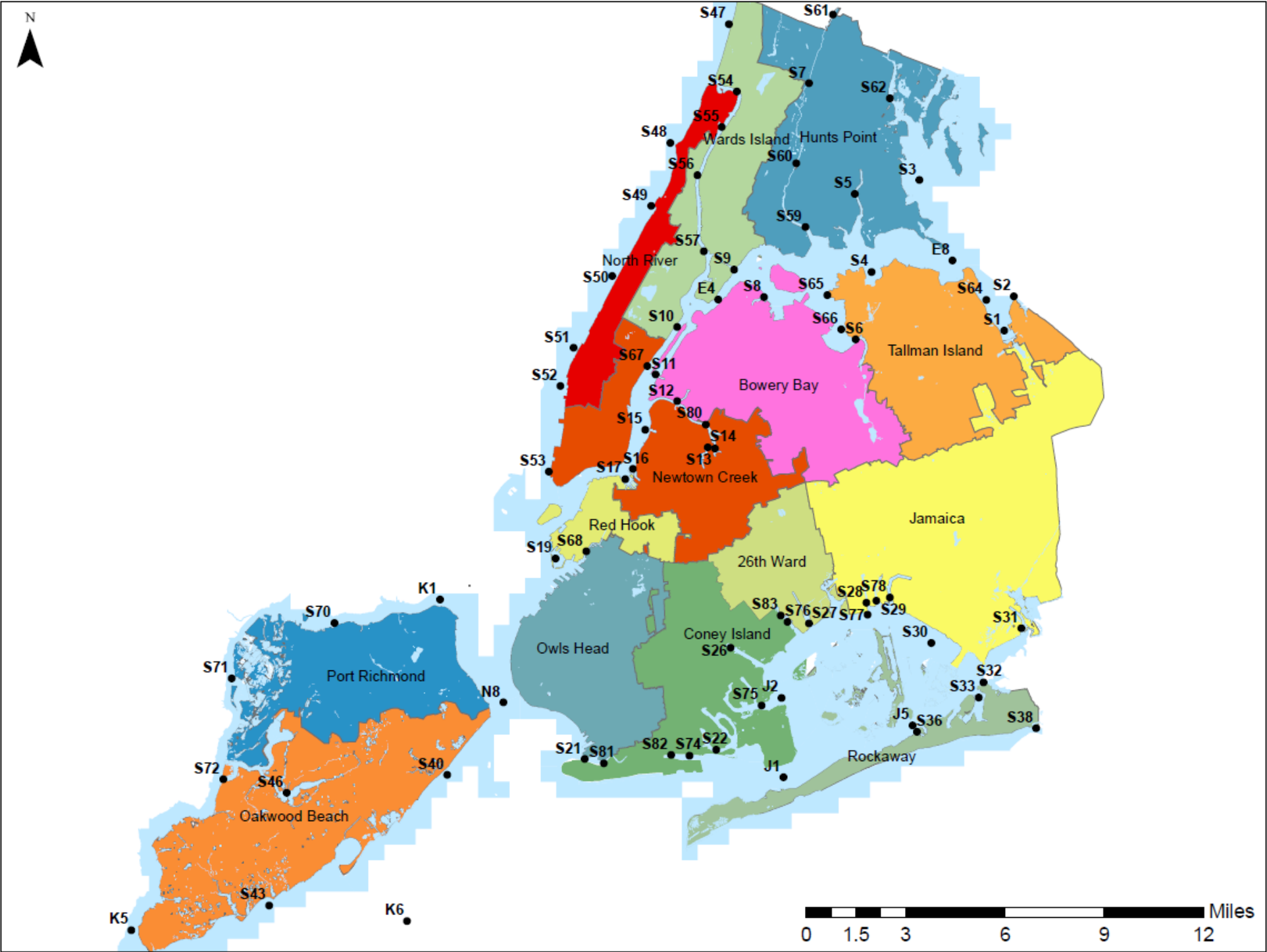
SURVEY STATISTICS

Fecal Coliform Baseline FC/100 ml	Number of Stations	Percentage (%) of Stations
1 – 200	61	82
> 200	13	18

PERCENTILE EXCEEDANCE - 2021



New York Harbor Sentinel Monitoring Stations





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"



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"



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"



SHORELINE MONITORING PROGRAM

BASELINE ANALYTICAL RESULTS

Station ID	2019		2020				2021				95% UCL
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
S1	101	14	136	34	56	76	2	2	104	70	88
S2	24	20	14	2	62	101	4	2	16	34	47
S3	4	6	14	4	10	8	18	2	4	12	11
S4	22	122	40	18	167	32	4	2	44	28	81
S5	144	490	74	168	87	540	88	56	159	310	321
S6	12,600	5,700	250	1,573	1,200	5,700	2,200	700	5,700	1,600	6074
S7	4,000	450	216	480	936	480	733	340	954	664	1611
S8	56	30	30	30	105	89	2	6	76	36	67
S9	300	88	26	36	16	14	8	8	34	12	110
S10	268	77	32	20	2	60	24	4	14	18	101
S11	209	42	24	24	6	54	10	2	42	12	80
S12	250	64	79	28	300	678	16	217	56	260	319
S13	800	2,100	42	28	221	3,400	237	282	4200	410	2116
S14	2,300	152	84	36	114	1,109	209	2	420	82	902
S15	91	34	42	32	108	30	12	6	28	44	63
S16	32	50	38	2	16	16	14	2	18	20	30
S17	30	70	52	2	26	34	18	2	46	30	44
S18*	2,600	64	48								
S19	510	42	56	2	2	14	18	2	20	38	167
S20*	36	62	38								
S21	312	48	100	570	2,300	22	675	320	6,400	74	2314
S22	18	32	18	22	32	32	6	16	92	10	43
S23*	48	22	14								
S24*	10	16	8								
S25*	2	8	8								
S26	6,600	30	48	22	12,100	87	156	32	104	38	4478
S27	836	5,600	12	28	166	540	6	2	50	12	1801

Fecal result = FC / 100ml

*Station eliminated as part of the optimization program in the 2nd quarter of 2020

UCL – Upper Confidence Limit



SHORELINE MONITORING PROGRAM

BASELINE ANALYTICAL RESULTS

Station ID	2019		2020				2021				95% UCL
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
S28	542	228	46	18	58	30	26	6	40	34	206
S29	7,700	6,000	82	195	114	20	6	22	75	16	3213
S30	271	164	72	4	22	18	10	2	24	6	115
S31	84	116	24	6	4	68	2	8	232	2	101
S32	2	2	4	2	12	112	4	2	16	2	37
S33	4	6	8	2	8	68	2	2	20	6	25
S34*	6	6	6								
S35*	112	2	18								
S36	120	2	102	10	32	158	16	34	260	30	128
S37*	14	10	6								
S38	26	44	14	8	2	54	8	2	319	196	133
S39*	48	20	28								41
S40	16	12	2	2	2	8	10	2	8	30	15
S41*	8	12	2								
S42*	2	14	2								
S43	4	10	48	2	8	2	4	2	4	48	25
S44*	2	2	34								
S45*	22	63	60								
S46	400	260	48	46	60	120	28	10	320	104	225
S47	44	252	85	2	10	26	98	6	26	148	119
S48	46	282	62	8	14	34	87	12	20	100	117
S49	96	148	46	14	16	30	28	8	60	80	80
S50	96	110	60	10	18	22	40	16	60	116	80
S51	42	410	58	22	94	30	24	12	93	120	164
S52	72	410	82	10	4	40	12	52	86	64	157
S53	82	249	34	8	8	20	20	12	66	24	98
S54	60	196	140	4	22	28	172	2	40	80	118

Fecal result = FC / 100ml

*Station eliminated as part of the optimization program in the 2nd quarter of 2020

UCL – Upper Confidence Limit



SHORELINE MONITORING PROGRAM

BASELINE ANALYTICAL RESULTS

Station ID	2019		2020				2021				95% UCL
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
S55	107	297	87	2	14	12	108	2	72	80	133
S56	82	420	89	6	198	30	106	4	100	124	191
S57	290	218	20	18	24	32	20	12	16	112	138
S58*	400	103	28								
S59	4,000	480	34	97	44	12	56	4	100	42	1257
S60	209	250	560	450	608	2,200	675	703	764	550	1043
S61	1,109	370	270	3,100	8,900	686	781	2000	5,400	2,300	4192
S62	1,073	3,900	264	72	48	184	550	247	120	40	1384
S63*	2	4	20								
S64	6	8	64	4	36	36	16	10	16	14	33
S65	8,500	101	22	10	261	81	12	60	92	20	2568
S66	6,000	34	209	66	340	350	470	280	310	76	1946
S67	30	52	20	22	8	40	20	12	8	6	31
S68	6,000	82	52	8	460	46	10	20	88	290	1862
S69*	50	8	58								
S70	144	110	72	124	118	78	84	44	74	204	134
S71	235	30	26	140	330	54	30	20	128	132	177
S72	2	38	98	10	24	14	28	4	85	68	59
S73*	2	2	6								
S74	480	330	131	97	1,009	460	339	330	520	117	548
S75	36	12	4	6	48	100	14	28	18	14	46
S76	16,100	233	390	600	460	2,100	164	86	697	162	5170
S77	544	105	22	40	75	116	8	36	22	28	199
S78	10,300	128	490	683	380	50	8	70	79	30	3204
S79*	4	2	12								
S80	238	185	77	32	70	550	16	12	100	32	233

UCL – Upper Confidence Limit

*Station eliminated as part of the optimization program in the 2nd Quarter of 2020

Fecal result = FC / 100ml

1st QUARTER
JANUARY 1 - MARCH 31, 2021



SHORELINE MONITORING PROGRAM

2021

FECAL COLIFORM (MF) SAMPLE RESULTS

1st QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2021 Fecal Coliform Baseline
1	3/9/2021	S 1	E 2	<2	200
2	3/9/2021	S 2	E 4	<2	200
3	3/9/2021	S 3	E 18	<2	200
4	3/9/2021	S 4	E 4	E 6	200
5	3/4/2021	S 5	88	E 12	200
6	3/9/2021	S 6	2,200*	128	200
7	1/11/2021	S 7	733*	350	200
8	3/9/2021	S 8	E 2	E 36	200
9	3/4/2021	S 9	E 8	E 4	200
10	3/4/2021	S 10	E 24	E 8	200
11	3/4/2021	S 11	E 10	E 6	200
12	3/4/2021	S 12	E 16	E 12	200
13	3/4/2021	S 13	237*	E 10	200
14	3/4/2021	S 14	209*	E 10	200
15	3/10/2021	S 15	E 12	E 12	200
16	3/10/2021	S 16	E 14	E 2	200
17	3/10/2021	S 17	E 18	E 6	200
18	3/10/2021	S 19	E 18	E 2	200
19	3/10/2021	S 21	675*	104	200
20	3/3/2021	S 22	E 6	<2	200
21	1/19/2021	S 26	156	E 10	200
22	1/19/2021	S 27	E 6	E 4	200
23	1/19/2021	S 28	E 26	52	200
24	1/19/2021	S 29	E 6	E 12	200
25	1/19/2021	S 30	E 10	E 2	200
26	3/3/2021	S 31	E 2	E 4	200
27	3/3/2021	S 32	E 4	<2	200
28	3/3/2021	S 33	E 2	<2	200
29	3/3/2021	S 36	E 16	E 2	200
30	1/12/2021	S 38	E 8	E 4	200
31	1/25/2021	S 40	E 10	<2	200
32	1/25/2021	S 43	E 4	E 2	200
33	1/12/2021	S 46	E 28	E 18	200
34	3/8/2021	S 47	98	E 18	200
35	3/8/2021	S 48	87	E 6	200
36	3/8/2021	S 49	E 28	E 2	200
37	3/8/2021	S 50	40	E 2	200
38	3/8/2021	S 51	E 24	E 8	200
39	3/8/2021	S 52	E 12	E 2	200

Fecal result = FC/100 ml

* Fecal Coliform Exceedance



SHORELINE MONITORING PROGRAM

2021

FECAL COLIFORM (MF) SAMPLE RESULTS

1st QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2021 Fecal Coliform Baseline
40	3/8/2021	S 53	E 20	E 4	200
41	3/8/2021	S 54	172	E 32	200
42	3/8/2021	S 55	108	E 18	200
43	3/8/2021	S 56	106	E 18	200
44	3/8/2021	S 57	E 20	E 2	200
45	3/4/2021	S 59	56	E 10	200
46	1/11/2021	S 60	675*	710	200
47	1/11/2021	S 61	781*	230	200
48	3/4/2021	S 62	550*	196	200
49	3/9/2021	S 64	E 16	E 4	200
50	3/9/2021	S 65	E 12	E 22	200
51	3/9/2021	S 66	470*	140	200
52	3/4/2021	S 67	E 20	E 2	200
53	3/10/2021	S 68	E 10	E 4	200
54	1/25/2021	S 70	84	E 12	200
55	1/25/2021	S 71	E 30	E 16	200
56	1/25/2021	S 72	E 28	E 12	200
57	3/3/2021	S 74	339*	48	200
58	1/19/2021	S 75	E 14	E 4	200
59	1/19/2021	S 76	164	60	200
60	1/19/2021	S 77	E 8	E 16	200
61	1/19/2021	S 78	E 8	E 4	200
62	3/4/2021	S 80	E 16	E 8	200
63	3/10/2021	S 81	12,200*	2,900	200
64	3/3/2021	S 82	200*	E 30	200
65	1/19/2021	S 83	74	E 28	200
66	3/10/2021	N8	E 20	E 22	200
67	3/3/2021	J1	3	1	200
68	1/19/2021	J2	4	2	200
69	3/3/2021	J5	<1	1	200
70	1/25/2021	K6	E 12	E 2	200
71	1/25/2021	K5	E 8	E 4	200
72	3/4/2021	E4	E 16	E 6	200
73	3/9/2021	E8	E 10	E 2	200
74	1/25/2021	K1	E 24	E 8	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, 2021. During this quarter, all seventy-four (74) sentinel stations were sampled. During this quarter, a total of 10.85 inches of precipitation fell.

MINI-SHORELINE SURVEY RESULTS

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

A mini-shoreline survey was performed in the middle of March. 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 February. 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 BRIDGE

A mini-shoreline survey was performed at the end of March. 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 at the end of March. 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 at the end of March. 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-60: BRONX RIVER AND EAST 180TH STREET

A mini-shoreline was performed in the middle of February. 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 at the end of February. 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-62: HUTCHINSON RIVER & ASH LOOP

A mini-shoreline survey was performed in the middle of March. The investigation included the area along the Hutchinson River near Co-op City in the Bronx. No discharge or discoloration was observed.

S-66: FLUSHING BAY & 31ST AVENUE

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

S-74: SHEEPSHEAD BAY & NOSTRAND AVENUE

A mini-shoreline survey was performed in the middle of March. The investigation included the shoreline of Sheepshead Bay between Shore Boulevard and Emmons Avenue. No discharge or discoloration was observed.

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

A mini-shoreline survey was performed at the end of March. 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 middle 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.

DRY WEATHER DISCHARGE

OH-197

In response to a request from NYS-DEC regarding a possible dry weather discharge at the outfall, OH-197, Compliance Monitoring Section (CMS) personnel conducted a joint investigation and dye-test with NYS-DEC 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.

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

TI-57 - 41ST AVENUE - MAIN STREET & COLLEGE POINT BLVD

In response of raw sewage bypasses recently reported from regulator TI-57, DEP personnel from the Bureau of Water and Sewer Operations (BWSO), Collections Facility North and Compliance

Monitoring Section (CMS) of the Bureau of Wastewater Treatment (BWT) reviewed sewer maps, performed sewer entries, inspected the storm sewer by pole camera, and dye tested the area to verify the connections of regulators TI-55, TI-56 and TI-57 to outfall CSO-022.

As part of an ongoing investigation to identify any improper storm sewer connections tributary to the storm sewer line downstream regulator TI-57, BWT's Compliance Monitoring Section (CMS) personnel dye tested twenty-six (26) establishments. The following twenty-one (21) were found to be properly connected to the sanitary sewer:

132-18 41st Ave	132-21 41st Ave	132-23 41st Ave
132-27A 41st Ave	132-35 41 st Ave	132-37 41st Ave
132-43 41st Ave	132-45 41st Ave	132-47 41st Ave
132-46 41 st Ave	132-44 41 st Ave	132-42 41 st Ave
132-38 41 st Ave	132-36 41 st Ave	132-32 41 st Ave
132-15 41 st Ave	132-27 41st Ave	132-41 41st Ave
132-46A 41 st Ave	132-40 41 st Ave	132-34 41 st Ave

The remaining five (5) establishments were found to have an improper connection to the storm sewer and Commissioner's Orders were issued to the property owners to remove the illegal connections to the storm sewer:

132-31 41 st Ave	132-35 41 st Rd	132-52 41 st Ave
132-28 41 st Ave	132-50 41 st Ave	

All establishments have complied with the Commissioner's Orders. CMS performed the last dye-test at 132-52 41st Avenue on 1/19/2022 and verified that all establishment have eliminated their connection to the storm sewer. Therefore, this case is closed. Please refer to Item Number 5588.

2nd QUARTER
APRIL 1 - JUNE 30, 2021



SHORELINE MONITORING PROGRAM

2021

FECAL COLIFORM (MF) SAMPLE RESULTS

2nd QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2021 Fecal Coliform Baseline
1	4/19/2021	S 1	E 2	<2	200
2	4/19/2021	S 2	<2	<2	200
3	4/19/2021	S 3	<2	<2	200
4	4/19/2021	S 4	E 2	<2	200
5	4/7/2021	S 5	56	E 6	200
6	4/19/2021	S 6	700*	210	200
7	4/20/2021	S 7	340*	42	200
8	4/19/2021	S 8	E 6	<2	200
9	4/7/2021	S 9	E 8	<2	200
10	4/7/2021	S 10	E 4	<2	200
11	4/7/2021	S 11	E 2	E 4	200
12	4/7/2021	S 12	217*	E 32	200
13	4/7/2021	S 13	282*	E 16	200
14	4/7/2021	S 14	E 2	E 4	200
15	5/24/2021	S 15	E 6	E 2	200
16	5/24/2021	S 16	E 2	E 2	200
17	5/24/2021	S 17	E 2	<2	200
18	5/24/2021	S 19	<2	<2	200
19	5/24/2021	S 21	320*	60	200
20	5/28/2021	S 22	E 16	E 8	200
21	4/27/2021	S 26	E 32	E 20	200
22	4/27/2021	S 27	<2	E 4	200
23	4/27/2021	S 28	E 6	E 4	200
24	4/27/2021	S 29	E 22	E 4	200
25	4/27/2021	S 30	<2	<2	200
26	4/28/2021	S 31	E 8	E 10	200
27	4/28/2021	S 32	<2	<2	200
28	4/28/2021	S 33	E 8	E 10	200
29	4/28/2021	S 36	E 34	E 18	200
30	5/13/2021	S 38	<2	E 4	200
31	4/8/2021	S 40	<2	<2	200
32	4/8/2021	S 43	<2	<2	200
33	5/13/2021	S 46	E 10	E 2	200
34	5/12/2021	S 47	E 6	E 6	200
35	5/12/2021	S 48	E 12	E 4	200
36	5/12/2021	S 49	E 8	E 2	200
37	5/12/2021	S 50	E 16	E 6	200
38	5/12/2021	S 51	E 12	<2	200
39	5/12/2021	S 52	52	E 2	200

Fecal result = FC/100 ml

* Fecal Coliform Exceedance



SHORELINE MONITORING PROGRAM

2021

FECAL COLIFORM (MF) SAMPLE RESULTS

2nd QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2021 Fecal Coliform Baseline
40	5/12/2021	S 53	E 12	<2	200
41	5/12/2021	S 54	E 2	E 2	200
42	5/12/2021	S 55	E 2	E 2	200
43	5/12/2021	S 56	E 4	E 4	200
44	5/12/2021	S 57	E 12	E 12	200
45	4/7/2021	S 59	E 4	<2	200
46	4/20/2021	S 60	703*	64	200
47	4/20/2021	S 61	2000*	360	200
48	4/7/2021	S 62	247*	50	200
49	4/19/2021	S 64	E 10	<2	200
50	4/19/2021	S 65	60	E 10	200
51	4/19/2021	S 66	280*	<2	200
52	4/7/2021	S 67	E 12	E 4	200
53	4/24/2021	S 68	E 20	E 4	200
54	4/8/2021	S 70	44	E 2	200
55	4/8/2021	S 71	E 20	<2	200
56	4/8/2021	S 72	E 4	E 2	200
57	4/28/2021	S 74	330*	E 34	200
58	4/27/2021	S 75	E 28	E 14	200
59	4/27/2021	S 76	86	E 8	200
60	4/27/2021	S 77	E 36	<2	200
61	4/27/2021	S 78	70	E 4	200
62	4/7/2021	S 80	E 12	E 2	200
63	5/24/2021	S 81	727*	184	200
64	4/28/2021	S 82	520*	140	200
65	4/27/2021	S 83	204*	42	200
66	4/24/2021	N8	<i>E 12</i>	<2	200
67	4/28/2021	J1	E 2	<2	200
68	4/27/2021	J2	E 4	<2	200
69	4/28/2021	J5	<2	<2	200
70	4/8/2021	K6	<2	<2	200
71	4/8/2021	K5	E 4	<2	200
72	4/7/2021	E4	E 2	<2	200
73	4/19/2021	E8	E 4	<2	200
74	4/19/2021	K1	E 12	<2	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, 2021. During this quarter, all seventy-four (74) sentinel stations were sampled. During this quarter, a total of 9.67 inches of precipitation fell.

MINI-SHORELINE SURVEY RESULTS

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

A mini-shoreline survey was performed in the middle of May. 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 beginning of June. 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-12: ENTRANCE TO DUTCH KILLS SOUTH OF LIRR BRIDGE

A mini-shoreline survey was performed at the end of April. The investigation was performed on both West and East sides of the entire Dutch Kills shoreline. No discharge was observed.

S-13: NEWTOWN CREEK NORTH OF GRAND AVENUE BRIDGE

A mini-shoreline survey was performed at the end of April. The investigation included the shoreline between Grand Avenue and 58th Street. No discharge was observed.

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

A mini-shoreline survey was conducted in the end of June. 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-60: BRONX RIVER & EAST 180TH STREET

A mini-shoreline survey was performed in the beginning of June. 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 beginning of June. 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-62: HUTCHINSON RIVER & ASH LOOP

A mini-shoreline survey was performed in the end of April. The investigation included the area along the Hutchinson River near Co-op City in the Bronx. No discharge was observed.

S-66: FLUSHING BAY 31ST AVENUE

A mini-shoreline survey was performed in the middle of May. 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 end of May. The investigation targeted the shoreline of Sheepshead Bay. No discharge or water discoloration was observed.

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

A mini-shoreline survey was performed in the middle of June. 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 at the end of May. 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 middle 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

OB-653 - SEWER OVERFLOW AT FOREST HILL ROAD

In response to a report of a sewer overflow reported at Forest Hill Road from private sewers, CMS personnel investigated and sampled the storm sewer line to OB-653. Sampling was completed to determine whether sewer overflow reported at Forest Hill Road was entering the storm sewer to OB- 653 via a creek that leads to an inlet discharging to the manhole on Conrad & Ashworth Avenue. Samples for fecal coliform and Enterococci were taken at the outfall and the manhole on Conrad Avenue. Elevated levels of bacteria were measured in the samples. Due to the nature of the discharge, the case has been transferred to NYS DEC.

3rd QUARTER
JULY 1 - SEPTEMBER 30, 2021



SHORELINE MONITORING PROGRAM

2021

FECAL COLIFORM (MF) SAMPLE RESULTS

3rd QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2021 Fecal Coliform Baseline
1	9/21/2021	S 1	104	E 28	200
2	9/21/2021	S 2	E 16	E 8	200
3	9/21/2021	S 3	<4	<4	200
4	9/21/2021	S 4	E 44	<4	200
5	7/15/2021	S 5	159	64	200
6	9/21/2021	S 6	5,700*	E 4	200
7	8/5/2021	S 7	954*	200*	200
8	9/21/2021	S 8	E 76	E 4	200
9	7/15/2021	S 9	E 34	E 6	200
10	7/15/2021	S 10	E 14	<2	200
11	7/15/2021	S 11	42	E 8	200
12	7/15/2021	S 12	56	E 18	200
13	7/15/2021	S 13	4200*	13	200
14	7/15/2021	S 14	420*	E 22	200
15	8/18/2021	S 15	E 28	E 8	200
16	8/18/2021	S 16	E 18	E 30	200
17	8/18/2021	S 17	46	E 20	200
18	8/18/2021	S 19	E 20	E 6	200
19	8/18/2021	S 21	6,400*	80	200
20	8/31/2021	S 22	92	<4	200
21	8/5/2021	S 26	104	E 2	200
22	8/5/2021	S 27	50	E 6	200
23	8/5/2021	S 28	40	E 20	200
24	8/5/2021	S 29	75	E 12	200
25	8/5/2021	S 30	E 24	<2	200
26	8/31/2021	S 31	232*	E 40	200
27	8/31/2021	S 32	E 16	<4	200
28	8/31/2021	S 33	E 20	<4	200
29	8/31/2021	S 36	260*	E 4	200
30	9/20/2021	S 38	319*	152	200
31	7/21/2021	S 40	E 8	<2	200
32	7/21/2021	S 43	E 4	<2	200
33	9/20/2021	S 46	320*	168	200
34	9/20/2021	S 47	E 26	E 6	200
35	8/17/2021	S 48	E 20	E 4	200
36	8/17/2021	S 49	60	<2	200
37	8/17/2021	S 50	60	E 6	200
38	8/17/2021	S 51	93	E 20	200
39	8/17/2021	S 52	86	E 8	200

Fecal result = FC/100 ml

* Fecal Coliform Exceedance



SHORELINE MONITORING PROGRAM

2021

FECAL COLIFORM (MF) SAMPLE RESULTS

3rd QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2021 Fecal Coliform Baseline
40	8/17/2021	S 53	66	E 4	200
41	8/17/2021	S 54	E 40	E 8	200
42	8/17/2021	S 55	E 72	E 18	200
43	8/17/2021	S 56	100	E 20	200
44	8/17/2021	S 57	E 16	E 6	200
45	7/15/2021	S 59	100	E 18	200
46	8/5/2021	S 60	764*	104	200
47	8/5/2021	S 61	5,400*	1,300*	200
48	7/15/2021	S 62	120	E 32	200
49	9/21/2021	S 64	E 16	<4	200
50	9/21/2021	S 65	92	E 32	200
51	9/21/2021	S 66	310*	148	200
52	7/15/2021	S 67	E 8	E 10	200
53	9/20/2021	S 68	88	28	200
54	7/21/2021	S 70	74	<2	200
55	7/21/2021	S 71	128	E 32	200
56	7/21/2021	S 72	85	E 22	200
57	8/31/2021	S 74	520*	E 12	200
58	8/5/2021	S 75	E 18	<2	200
59	8/5/2021	S 76	697*	E 12	200
60	8/5/2021	S 77	E 22	E 2	200
61	8/5/2021	S 78	79	<2	200
62	7/15/2021	S 80	100	E 34	200
63	8/18/2021	S 81	>240*	510*	200
64	8/31/2021	S 82	6,000*	144	200
65	8/5/2021	S 83	350*	E 4	200
66	8/18/2021	N8	46	<2	200
67	8/31/2021	J1	E 72	<4	200
68	8/5/2021	J2	E 12	<2	200
69	8/31/2021	J5	E 24	<4	200
70	7/21/2021	K6	E 10	<2	200
71	7/21/2021	K5	E 32	E4	200
72	7/15/2021	E4	E 14	<2	200
73	9/21/2021	E8	E 24	E 40	200
74	7/21/2021	K1	44	E 8	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, 2021. During this quarter, all seventy-four (74) sentinel stations were sampled. During this quarter, a total of 31.44 inches of precipitation fell.

MINI-SHORELINE SURVEY RESULTS

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

A mini-shoreline survey was performed at the end of September. 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 middle of August. 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 BRIDGE

A mini-shoreline survey was performed in the beginning of August. 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-14: ENTRANCE TO ENGLISH KILLS AT SCOTT STREET

A mini-shoreline survey was performed in the beginning of August. 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 at the end of August. 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-31: ENTRANCE TO THURSTON BASIN

A mini-shoreline survey was performed at the end of September. The investigation included the shoreline on both sides of Thurston Basin of Broad Street. No discharge or water discoloration was observed.

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

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

S-38: BANNISTER CREEK & ATLANTIC BEACH BRIDGE APPROACH

A mini-shoreline survey was performed at the end of September. The investigation targeted the shoreline of Reynolds Channel / East Rockaway Inlet from Beach 4th Street to Bannister Creek. No discharge or water discoloration was observed.

S-46: RICHMOND CREEK & RICHMOND AVENUE

A mini-shoreline survey was performed at the end of September. 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 & EAST 180TH STREET

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

S-74: SHEEPSHEAD BAY & NOSTRAND AVENUE

A mini-shoreline survey was performed in the middle of September. The investigation included the shoreline of Sheepshead Bay between Shore Boulevard and Emmons Avenue. No signs of discharge or discoloration was observed.

S-76: FRESH CREEK BASIN & AVENUE N

A mini-shoreline survey was performed in the middle of August. The investigation included the shoreline along Fresh Creek Basin from Avenue N to Seaview Avenue. 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-82: SHEEPSHEAD BAY NEAR EXETER STREET

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

DRY WEATHER DISCHARGE

BB-008, 108th STREET & 37TH AVENUE

In response to a referral from the Department of Environmental Protection's Bureau of Wastewater Treatment (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 of the dry weather discharge at the outfall is still ongoing. This is a tidally impacted outfall. Furthermore, to optimize CSO capture, the Bureau of Environmental Design and Construction (BEDC) has started a project modifying the weirs in the regulators that discharge to BB-008.

An extension of six (6) months was therefore requested in order to complete the review and investigation of the storm sewer tributary to BB-008. Please refer to Item Number 3687.

ENGLISH KILLS

As part of a request by upper management, CMS personnel and NYS-DEC investigated black water/smell reported by the Newtown Creek Alliance in English Kills. When CMS personnel arrived on site, a foul odor was noted as well as dark coloration and sheen throughout the waterbody. Black asphalt and water from recent road repaving work by the Department of Transportation on Grand Street were observed in catch basins in the area. The aeration system in English Kills was not in operation. CMS personnel performed dye tests in the area, but no illegal connections were found. After a follow-up investigation, no black water was observed in the waterway except near NCB-635 and was determined to be due to road work. CMS took additional samples for bacteria indicators. Sample results were no longer elevated. The investigation is now closed.

HP-010 & BRONX RIVER

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.

An extension of six (6) months is therefore requested in order to complete this investigation. Please refer to Item Number 3374.

4th QUARTER
OCTOBER 1 - DECEMBER 31, 2021



SHORELINE MONITORING PROGRAM

2021

FECAL COLIFORM (MF) SAMPLE RESULTS

4th QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2021 Fecal Coliform Baseline
1	11/4/2021	S 1	70	E 10	200
2	11/4/2021	S 2	E 34	E 10	200
3	11/4/2021	S 3	E 12	<2	200
4	11/4/2021	S 4	E 28	<2	200
5	10/21/2021	S 5	310*	48	200
6	11/4/2021	S 6	E 1600*	160	200
7	10/7/2021	S 7	664*	240	200
8	11/4/2021	S 8	E 36	E 4	200
9	10/21/2021	S 9	E 12	E 6	200
10	10/21/2021	S 10	E 18	E 2	200
11	10/21/2021	S 11	E 12	<2	200
12	10/21/2021	S 12	260*	E 10	200
13	10/21/2021	S 13	410*	E 2	200
14	10/21/2021	S 14	82	E 6	200
15	10/19/2021	S 15	44	E 2	200
16	10/19/2021	S 16	E 20	<2	200
17	10/19/2021	S 17	E 30	E 6	200
18	10/19/2021	S 19	E 38	E 10	200
19	10/19/2021	S 21	74	40	200
20	11/8/2021	S 22	E 10	<4	200
21	10/20/2021	S 26	E 38	E 2	200
22	10/20/2021	S 27	E 12	E 2	200
23	10/20/2021	S 28	E 34	E 16	200
24	10/20/2021	S 29	E 16	E2	200
25	10/20/2021	S 30	E 6	<2	200
26	11/8/2021	S 31	E 2	<4	200
27	11/8/2021	S 32	E 2	<4	200
28	11/8/2021	S 33	E 6	<4	200
29	11/8/2021	S 36	E 30	<4	200
30	11/18/2021	S 38	196	E 40	200
31	11/3/2021	S 40	E 30	<4	200
32	11/3/2021	S 43	E 48	<4	200
33	11/18/2021	S 46	104	E 68	200
34	11/18/2021	S 47	148	E 12	200
35	11/18/2021	S 48	100	E 28	200
36	11/18/2021	S 49	80	E 32	200
37	11/18/2021	S 50	116	E 4	200
38	11/18/2021	S 51	120	E 24	200
39	11/18/2021	S 52	E 64	E 30	200

Fecal result = FC/100 ml

** Fecal Coliform Exceedance*



SHORELINE MONITORING PROGRAM

2021

FECAL COLIFORM (MF) SAMPLE RESULTS

4th QUARTER

No	Sample Date	Station ID	Fecal Coliform	Enterococci	2021 Fecal Coliform Baseline
40	11/18/2021	S 53	E 24	E 4	200
41	11/18/2021	S 54	80	E 24	200
42	11/18/2021	S 55	80	E 12	200
43	11/18/2021	S 56	124	E 20	200
44	11/18/2021	S 57	112	E 32	200
45	10/21/2021	S 59	42	E 14	200
46	10/7/2021	S 60	550*	156	200
47	10/7/2021	S 61	2,300*	E 1600*	200
48	10/21/2021	S 62	40	E 4	200
49	11/4/2021	S 64	E 14	E 2	200
50	11/4/2021	S 65	E 20	E 4	200
51	11/4/2021	S 66	76	E 12	200
52	10/21/2021	S 67	E 6	E 6	200
53	10/19/2021	S 68	290*	E 28	200
54	11/3/2021	S 70	204*	E 12	200
55	11/3/2021	S 71	132	E 16	200
56	11/3/2021	S 72	E 68	E 16	200
57	11/8/2021	S 74	117	E 8	200
58	10/20/2021	S 75	E 14	E 2	200
59	10/20/2021	S 76	162	E 6	200
60	10/20/2021	S 77	E 28	E 2	200
61	10/20/2021	S 78	E 30	<2	200
62	10/21/2021	S 80	E 32	<2	200
63	10/19/2021	S 81	5,300*	88	200
64	11/8/2021	S 82	167	E 28	200
65	10/20/2021	S 83	250*	E 4	200
66	10/19/2021	N8	E 20	<2	200
67	11/8/2021	J1	E 4	<4	200
68	10/20/2021	J2	E 6	<2	200
69	11/8/2021	J5	E 4	<4	200
70	11/3/2021	K6	E 28	E 4	200
71	11/3/2021	K5	148	E 8	200
72	10/21/2021	E4	E 24	E 2	200
73	11/4/2021	E8	E 12	E 2	200
74	11/3/2021	K1	80	<4	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, 2021. During this quarter, all seventy-four (74) sentinel stations were sampled. During this quarter, a total of 7.77 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 middle 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-12: ENTRANCE TO DUTCH KILLS SOUTH OF LIRR BRIDGE

A mini-shoreline survey was performed in the middle of November. The investigation included the shoreline of both sides of the Newtown Creek from the Borden Avenue Bridge to Whale Creek. No discharge or water discoloration was observed.

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

A mini-shoreline survey was performed in the middle 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-60: BRONX RIVER & EAST 180TH STREET

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

S-70: KILL VAN KULL W/O BAYONNE BRIDGE

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 at the end of October. 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 at the end of October. The investigation included the shoreline along Fresh Creek Basin from Avenue L to Flatlands Avenue. No discharge or discoloration was observed.

DRY WEATHER DISCHARGE**DEAD HORSE BAY, CONEY ISLAND**

In response to a request for additional investigation from EPA regarding an outfall near Floyd Bennet Field, CMS personnel conducted dry weather sampling and an investigation of two (2) outfalls with dry weather discharge along Flatbush Avenue leading to Dead Horse Bay. Samples were taken for fecal coliform and enterococci bacteria at CI-163 (42" diameter outfall) and CI-908 (24" diameter outfall owned by DEP). Elevated levels of bacteria were measured at outfall CI-163, the private outfall leading to Floyd Bennet Field. The investigation was transferred to NYS-DEC.

TI-024

In response to a civilian complaint to the 311 call-center of a dry weather discharge at TI-024, 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-024, CMS personnel dye tested two hundred and nineteen establishments. The following two hundred and seven 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	57-03 Little Neck Parkway
259-11 57th Ave	259-19 57th Ave	240-14 67th Ave

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-024 outfall. CMS personnel is also sampling with the United States Geological Survey (USGS) and Environmental Protection Agency (EPA) in the area. An extension of six (6) month is therefore requested in order to complete this investigation. Please refer to Item Number 4558.

CI-633, LIN'S Q & Z LAUNDROMAT, INC

During a routine inspection, Compliance Monitoring Section (CMS) personnel observed dry weather discharge in a storm sewer tributary to outfall CI-633. CMS personnel started an investigation to determine the source(s) of the discharge.

As part of the investigation to identify any improper storm sewer connections tributary to the outfall CI-633, CMS personnel dye tested Lin's Q & Z Laundromat, Inc. located at 9522 Seaview Avenue, Brooklyn, N.Y. 11236 and found 20 washing machines discharging 2000 GPD to the storm sewer tributary to CI-633.

A Commissioner's Order was issued to the owner of the Laundromat to remove the connection of the washing machines from the storm sewer and reconnect to the sanitary sewer. The connection to the storm sewer has been removed and verified by a dye-test on 1/18/2022.

Therefore, this case is closed.

GOTHAM READY MIX

In response to a request by NYS DEC regarding an illicit discharge in Newtown Creek, CMS personnel conducted an investigation and dye test of businesses between Stagg Street and Scholes Street on Morgan Avenue.

At 190 Morgan Avenue, CMS personnel observed a dry open floor drain basin with an operating pump connected to a hose leading to another floor drain behind the building. CMS personnel poured dye and water into the floor drain behind the building. Dye was observed exiting a bulkhead into Newtown Creek.

Due to 190 Morgan Avenue being an empty property, and the floor drain was dry upon inspection, no Commissioners Order was given to the property owner. Due to observed cement and water wash on the floor of the property that may have been drained into the open basin, Commissioner's Order E68533 was given to the adjacent property to supply a layout of the property as well as engineering plans of the connections from the property to the sanitary and storm sewers.

CMS personnel returned and observed 3" of standing water on the floor where the drain basin and pump is located. The pump was not operating during the inspection. The standing water in the building is sourced from overflowing runoff from vehicle wash in the Gotham Ready Mix property. This case has been transferred to NYS DEC.

215-04 24th AVENUE , FLUSHING, QUEENS

As part of report by BWSO of a potential illegal connection to a catch basin in Flushing, Queens, CMS personnel conducted an investigation, dye test, and sampling at 215-04 24th Avenue. A catch basin fronting the property was observed with five (5) PVC pipes connected inside. CMS personnel observed a holding pit on the property with a pump connected and standing water. CMS personnel collected samples for fecal coliform and Enterococci in the catch basins. CMS personnel then conducted a dye test of the bathrooms inside 215-04 24th Avenue. The dye resulted in the sanitary sewer fronting the property. Low levels of bacteria were measured in the samples indicating no sanitary discharge. The case is under legal review.

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 2021, 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 2021, which includes the types and number of complaints received and responded to.

Nature of Complaint		Total for 2021
1.	Oil	112
2.	Gasoline/Explosivity	45
3.	Chemicals	53
4.	Odors	20
5.	Wastewater/Concrete	450
6.	Discharge to Receiving Water	26
7.	Miscellaneous	100
	Sub Total	<hr/> 806
8a.	Complaints received & referred to others	102
8b.	Follow-up inspections	915
	Total	1823