Subcatchment Priority Ranking

REVISED January 31, 2024

Boston Water and Sewer Commission
980 Harrison Avenue
Boston, MA 02119

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CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John P. Sullivan, P.E.
Chief Engineer

Dated: 1/25/2024

Section 1 – Introduction

Under the terms of the Consent Decree lodged in federal court on August 23, 2012, the Boston Water and Sewer Commission (BWSC) must implement a subcatchment screening program and establish priorities and a schedule for investigating subcatchments that demonstrate contamination.

As required under the Consent Decree, on November 20, 2012, the BWSC submitted: (a) a revised priority ranking of subcatchments based on information and data available at that time; (b) an MS4 and CSO subcatchment area map showing the revised ranking of each subcatchment; and (c) a schedule for completion of all subcatchment investigations.

Also under the Consent Decree, by January 31st of each calendar year, the BWSC must revise its priority ranking of subcatchments to be investigated to: (a) include all subcatchments newly identified as needing investigation based on evidence of discharges contaminated by human waste; and (b) adjust priorities based on new evidence. As required, revised priority rankings of subcatchments were submitted to EPA by January 31st, each year since 2013.

Pursuant to Section VII, Part B, Paragraph 17 of the Consent Decree, BWSC hereby submits this revised priority ranking of subcatchments as of January 2023. This document and the rankings incorporate agreed revisions proposed to EPA on August 15, 2014.

Section 2 – Screening Protocols

Protocols have been developed for both dry and wet weather screening of subcatchments. The protocols were updated in 2020 (wet) and 2021 (dry). Appendix A contains the dry weather screening protocols. Appendix B contains the wet weather screening protocols. The screening protocols were established for conducting visual inspections; screening and sampling of outfalls/interconnections; monitoring weather conditions and tides in order to select appropriate days to conduct screening and sampling visits; and mobilizing field staff. The protocols also defined required sampling procedures, including: specific parameters to be sampled in the field vs. in the lab, equipment calibration and operation, communications, record keeping, and health and safety concerns. The documents also include analytical requirements for collecting water quality samples, sample blanks, and duplicates; sample preservation and holding time requirements; and laboratory analytical quality assurance/quality control (QA/QC) procedures. In general, the following protocols were followed in 2023:

- Visual inspections were conducted to confirm outfall/interconnection locations, collect inspection data, and plan sampling.
- Screening was performed during dry and wet weather for collection of samples for field and lab analysis.
- Ammonia, surfactants, pH, temperature, specific conductivity, total chlorine and salinity were measured using field test kits.
- Samples were delivered by courier to G&L Laboratories for bacterial analysis.
- Bacterial analysis consisted of *E. coli* for freshwater samples and *Enterococci* for marine water samples.
- All samples were taken as grab samples. No confined space entry was required.

All the screening data in 2023 were collected by Commission's consultant, Stacey DePasquale Engineering, under sub-contract to Stantec, Inc.

The purpose of the dry weather sub-catchment screening and inventory effort was to:

- Confirm the location of the outfalls/interconnections.
- Characterize the current condition (size, material, flow, etc.) of each outfall or interconnection.
- Identify outfalls/interconnections with dry weather flow and determine if the flow was potentially contaminated.

The purpose of the wet weather screening was to collect a wet weather sample at all locations where flow was not observed during dry weather screening, as well as locations where dry weather flow was below the Illicit Discharge Detection and Elimination (IDDE) thresholds established by the Consent Decree.

IDDE screening thresholds as defined in the Commission's Consent Decree are as follows:

Bacteria:

<u>Class A and Class B waters</u>
E. coli: greater than 235 cfu/ 100 mL
Enterococcus: greater than 61 cfu/ 100 mL

<u>Class SA and Class SB waters</u>
Enterococcus: greater than 104 cfu/ 100 mL

Ammonia: = >0.5 mg/L
Surfactants: = > 0.25 mg/L via field kits; => 0.1 mg/L via laboratory analysis
Chlorine: greater than non-detect (0.02 mg/L method detection limit)

The 2023 wet weather screening followed the modified program set forth in the Commission's Proposed Wet Weather Outfall Monitoring Program, which was approved by EPA in a letter dated April 22, 2014. Under the modified program the same wet weather protocols, parameters and thresholds identified in the Consent Decree were used. However, in order to start wet weather screening earlier in the year the selection of subcatchments included in the 2023 wet weather program was based on the 2022 dry weather screening data.

Section 3 – 2023 Field Screening

There are 256 Commission-owned subcatchments, of which 210 are storm drain outfalls (SDOs)[1], 18 are storm drain manholes where storm drainage is conveyed to other municipalities' MS4s or non-BWSC outfalls (referred to as "interconnections"), and 28 are Combined Sewer Overflow (CSO) outfalls.[2]

[1] Subcatchment 25M005 has been fully separated and now conveys only drainage so it has been moved to the storm drain outfall list. 6DSDO184 was removed from the list of storm drain outfalls since it is a culvert and not a storm drain outfall.
[2] There are still 30 CSO outfalls listed in the BWSC's NPDES Permit. However, CSO 19MCSO083 has been eliminated; therefore, it was not screened in 2023. Outfall 25M005 was fully separated so it now appears on the storm drain outfall list.

All the results of the 2023 dry weather screening program are provided in Appendix C, and a summary of dry weather screening and sampling performed during 2023 is shown in Table 1.

Dry weather field screening took place at 30 CSO locations[3] in 2023. Dry weather samples were collected at 23 CSO locations. Seven (7) locations were not sampled because there was no flow or insufficient flow to sample, or the outfall had standing water or was submerged, and upstream manholes also had standing water or were submerged.

Dry weather screening took place at 232 SDO and interconnection locations during 2023. Four (4) SDOs had a second sample collected during screening. All these results are included in Appendix C. Dry weather samples were collected at 133 of the locations visited. The remaining 99 locations were not sampled because there was no flow or insufficient flow to sample; the outfall had standing water or was submerged, and upstream manholes also had standing water or were submerged; or the outfall and upstream features could not be accessed or located.

TABLE 1.

2023 Dry Weather Screening Samples Collected versus Not Collected

Results of Dry Weather Sampling CSOs	2023
Total CSO Screenings Performed	30
Samples Collected	23
Samples Not Collected	7
No flow, dry	2
No flow, standing water/submerged	5
Could not access outfall/no suitable sampling location	0
Results of Dry Weather Sampling SDO/Interconnections	**2023**
Total SDOs/Interconnect Screenings Performed	232
Samples Collected	133
Samples Not Collected	99
No flow, dry	67
No flow, standing water/submerged	30
Could not access outfall/no suitable sampling location	2

All results of the 2023 wet weather screening program are provided in Appendix D, and a summary of the wet weather screening and sampling performed is shown in Table 2.

Wet weather field screening took place at five (5) CSO locations during 2023. Wet weather samples were collected at four (4) of the CSO locations. The remaining one (1) location was not sampled because the outfall had standing water or was submerged and upstream manholes also had standing water or were submerged. Due to unsuitable weather conditions and tides crews were unable to screen five (5) CSO locations during wet weather until January 2024. Since the results were not back from the laboratory in time to include in this report, they are not included in Appendix D nor the Priority Ranking.

[3] The Stony Brook Conduit CSO 21HCSO046 was screened in three locations in 2023. All three locations are ranked in the 2023 prioritization.

Wet weather screening took place at 115 SDO and interconnection locations during 2023. Wet weather samples were collected at 96 of the locations visited. Samples could not be collected at 19 locations because there was no flow or insufficient flow to sample or the outfall had standing water or was submerged and upstream manholes also had standing water or were submerged. Due to unsuitable weather conditions and tides crews were unable to screen five (5) SDO locations during wet weather until January 2024. Since the results were not back from the laboratory in time to include in this report, they are not included in Appendix D nor the Priority Ranking.

TABLE 2.
2023 Wet Weather Screening Samples Collected versus Not Collected

Results of Wet Weather Sampling CSOs	2023
Total CSO Screenings Performed	5
Samples Collected	4
Samples Not Collected	1
No flow, dry	0
No flow, standing water/submerged	1
Could not access outfall/no suitable sampling location	0
Results of Wet Weather Sampling SDO/Interconnections	**2023**
Total SDOs/Interconnect Screenings Performed	115
Samples Collected	96
Samples Not Collected	19
No flow, dry/insufficient flow	4
No flow, standing water/submerged	15
Could not access outfall/no suitable sampling location	0

Section 4 – 2024 Ranking and Prioritization

As of August 23, 2019, illicit discharge investigations in all the Commission's subcatchments were complete. As a result, the prioritization methodology was updated for the 2021 priority ranking and continued in the 2022 and 2023 priority ranking as the Commission has moved toward a long-term IDDE maintenance program.

As required by the Consent Decree, 12 subcatchments discharging to beach areas were given first priority. Interconnections with other MS4s were ranked next, and then all remaining subcatchments followed. Subcatchments in each of these groupings were scored against four criteria as follows:

- Discharge location: Discharge to a beach or interconnection discharging to another MS4.
- Dry weather screening: Based on 2023 dry weather screening data. Considers flow conditions at sampling location, bacteria type, and bacteria result. Score is given based on where the bacteria result falls in the criteria table.
- Wet weather screening: If a wet weather sample is taken, it is currently weighted 20%, and the dry weather is weighted 60%. If no wet weather sample is taken, the dry weather is weighted 80%. A lack of a wet weather screening means that the threshold was already exceeded in the

dry weather sample from the previous year. Outfalls contaminated in dry weather are given the highest priority.

- Most recent inspection date: A score is assigned by comparing the most recent date of inspection (dye test or pipe inspection) to the criteria table. Areas that haven't had inspections since 2004, including the upper Stony Brook, receive a higher score.

Scores were assigned to each outfall in each of the four categories from zero to ten as indicated in Tables 3 through 6 below.

TABLE 3. Priority Ranking Criteria – Discharge Location

CRITERIA		SCORE
Discharge Location	Public Beach	10
	Interconnections	10
	Not a Public Beach or Interconnection	0

TABLE 4. Priority Ranking Criteria – Dry Weather Outfall Screening

CRITERIA			SCORE
Dry Weather Outfall Screening Flow Conditions and Bacteria Sampling Results	**E.coli**	**Enterococci**	
	≥80,000	≥80,000	10
	50,000 - 79,999	40,000 - 79,999	9
	40,000 - 49,999	30,000 - 39,999	8
	30,000 - 39,999	20,000 - 29,999	7
	20,000 - 29,999	10,000 - 19,999	6
	10,000 - 19,999	5,000 - 9,999	5
	5,000 - 9,999	1,000 - 4,999	4
	1,000 - 4,999	500 – 999	3
	235 - 999	104 – 499	2
	Standing Water/Submerged		1
	No Access/CNL		1
	<235	<104	0
	Dry		0

TABLE 5. Priority Ranking Criteria – Wet Weather Outfall Screening

CRITERIA			SCORE
Wet Weather Outfall Screening Flow Conditions and Bacteria Sampling Results	**E.coli**	**Enterococci**	
	≥80,000	≥80,000	10
	50,000 - 79,999	40,000 - 79,999	9
	40,000 - 49,999	30,000 - 39,999	8
	30,000 - 39,999	20,000 - 29,999	7
	20,000 - 29,999	10,000 - 19,999	6
	10,000 - 19,999	5,000 - 9,999	5
	5,000 - 9,999	1,000 - 4,999	4
	1,000 - 4,999	500 – 999	3
	235 - 999	104 – 499	2
	Standing Water/Submerged		1
	No Access/CNL		1
	<235	<104	0
	Dry		NA
	Not Required/Incomplete		NA

TABLE 6. Priority Ranking Criteria – Date of Last Inspection

CRITERIA		SCORE
Date of Last Manhole or Building Inspection	Prior to November 2004 (SBI)	10
	Nov 2004 - Dec 2012 (CWI1/2)	5
	Jan 2013 - present (CWI3/4/5)	0

Each of the four criteria were weighted in accordance with Table 7 to arrive at an overall score for each outfall. The weighting is such that the 2023 outfall screening results as a whole account for 80% of the score, regardless of whether wet weather screening was required. For locations that had a field duplicate bacteria sample collected or were sampled more than once, the higher bacteria result was used for prioritization purposes.

TABLE 7. Criteria Weighting

CRITERIA	Weight with 2023 wet weather screening data	Weight without 2023 wet weather screening data
Discharge Location	10%	10%
Dry Weather Outfall Screening	60%	80%
Wet Weather Outfall Screening	20%	0%
Date of Last Inspection	10%	10%

The 2024 Priority Ranking includes a scoring, ranking, and color-coding scheme as follows:

TABLE 8. Scoring, Ranking and Color-Coding Scheme

RANKING	RANKING SCORE	NUMBER OF SUBCATCHMENTS BY RANK	MAP COLOR CODE
1	Beach	12	Orange
2	Interconnection	16	Yellow
3	High >= 2	47	Green
4	Medium < 2 and > = 1	82	Blue
5	Low < 1	102	Purple
6	CSO or Unranked	NA	Gray

The results of the 2024 priority ranking are shown in Table 9 and a map illustrating the 2024 rankings of the subcatchments is provided as Figure 1.

Section 5 – Follow-up Illicit Discharge Investigations

Although investigations in all of the Commission's subcatchments were completed as of August 23, 2019, recent outfall screening results show discharges from some subcatchments still demonstrate levels of contamination above the thresholds established in the Consent Decree.

In August 2020, the Commission contracted with Stantec, Inc. to perform the next phase of its Illicit Connection Investigation Program (Phase 5). The primary purpose of Phase 5 is to perform follow-up investigations in subcatchments still demonstrating elevated levels of contamination, and to explore alternative methods for identifying sources of sewage contamination in the Commission's storm drain system. The CWI5 contract includes annual wet and dry weather field screening of the Commission's outfalls and interconnections, field investigations to identify illicit connections, and annual compilation of field screening data to produce Revised Priority Rankings of subcatchments to provide to EPA by January 31, each year. The duration of the Phase 5 contract has been extended until December 31, 2024.

During Phase 5 the Commission is focusing efforts on investigating subcatchments that discharge to beach outfalls, interconnections, and those that have a ranking equal to or greater than 2, as shown in Table 9. During 2023, follow-up investigations focused heavily on the Upper Stony Brook catchments, 13LSDO090, 07HSDO105, 07HSDO285, 12BSDO124 and 18GSDO233. In addition to the Commission's standard manhole sampling procedures, bacteria samples were collected in addition to field test kits at strategic locations to further prioritize sub-areas within some of the large subcatchments and to pinpoint remaining sources of contamination. During 2024, the Commission will continue to focus its investigative efforts on those subcatchments with the highest priority rankings.

TABLE 9. 2024 REVISED PRIORITY RANKING

				2023 Data				2023 Data						
	WEIGHT (w/ WW):		**10%**				**60%**				**20%**		**10%**	
	WEIGHT (w/o WW):		**10%**				**80%**				**0%**		**10%**	
FACILITY ID[A]	**CRITERIA:**	*Beach*	**Discharge Location SCORE**	*Dry Weather Flow Cond at "sampling location"*	*Dry Weather Bacteria (type)*	*Dry Weather Bacteria (result)*	**Dry Weather SCORE**	*Wet Weather Flow Cond at "sampling location"*	*Wet Weather Bacteria (type)*	*Wet Weather Bacteria (result)*	**Wet Weather SCORE**	*Most Recent Pipe/Bldg Insp Date [B]*	**Most Recent Insp SCORE**	**TOTAL SCORE**
28PSDO1	SDO	*Yes*	10	*Flow*	*Enterococci*	*5900*	5	*Not Required*				*4/25/2023*	0	5.00
13LSDO090	SDO	*Yes*	10	*Flow*	*Enterococci*	*1500*	4	*Not Required*				*12/19/2023*	0	4.20
12LMH304	Interconnection	*Yes*	10	*Flow*	*Enterococci*	*910*	3	*Flow*	*Enterococci*	*6700*	5	*11/20/2023*	0	3.80
12LMH374	Interconnection	*Yes*	10	*Flow*	*Enterococci*	*330*	2	*Flow*	*Enterococci*	*5900*	5	*1/3/2023*	0	3.20
12LSDO092	SDO	*Yes*	10	*Flow*	*Enterococci*	*190*	2	*Not Required*				*12/4/2014*	0	2.60
29OSDO001	SDO	*Yes*	10	*Flow*	*Enterococci*	*170*	2	*Not Required*				*7/25/2016*	0	2.60
15LSDO089	SDO	*Yes*	10	*Flow*	*Enterococci*	*160*	2	*Not Required*				*10/6/2015*	0	2.60
28NSDO156	SDO	*Yes*	10	*Dry*			0	*Flow*	*Enterococci*	*910*	3	*10/17/2012*	5	2.10
28NSDO207	SDO	*Yes*	10	*Flow*	*Enterococci*	*60*	0	*Not Required*				*11/7/2016*	0	1.00
28OSDO25	SDO	*Yes*	10	*Flow*	*Enterococci*	*30*	0	*Not Required*				*7/22/2014*	0	1.00
29PSDO44	SDO	*Yes*	10	*Flow*	*Enterococci*	*<10*	0	*Not Required*				*4/25/2023*	0	1.00
15LSDO088	SDO	*Yes*	10	*Flow*	*Enterococci*	*<10*	0	*Not Required*				*12/6/2023*	0	1.00
23BMH89	Interconnection	*No*	10	*Flow*	*E.coli*	*>80000*	10	*Not Required*				*12/5/2023*	0	9.00
21DMH319	Interconnection	*No*	10	*Flow*	*E.coli*	*65000*	9	*Not Required*				*9/19/2023*	0	8.20
20DNP140	**Interconnection**	***No***	**10**	***Flow***	***E.coli***	***6500***	**4**	***Not Required***				***3/1/2023***	**0**	**4.20**
21EMH86	Interconnection	*No*	10	*Flow*	*E.coli*	*2500*	3	*Flow*	*E.coli*	*7000*	4	*3/15/2021*	0	3.60
3FMH56	Interconnection	*No*	10	*Flow*	*E.coli*	*3600*	3	*Not Required*				*11/9/2015*	0	3.40
20DMH19	Interconnection	*No*	10	*Flow*	*E.coli*	*1900*	3	*Not Required*				*12/8/2020*	0	3.40
23HMH81	Interconnection	*No*	10	*Standing Water*			1	*Submerged*			1	*Pre-Consent Decree*	10	2.80
14EMH36	Interconnection	*No*	10	*Dry*			0	*Flow*	*E.coli*	*20000*	6	*3/7/2016*	0	2.20
2FMH120	Interconnection	*No*	10	*Dry*			0	*Flow*	*E.coli*	*370*	2	*9/30/2005*	5	1.90
6CMH117	Interconnection	*No*	10	*Dry*			0	*Flow*	*E.coli*	*5700*	4	*5/30/2018*	0	1.80
20DMH62	**Interconnection**	***No***	**10**	***Dry***			**0**	***Flow***	***E.coli***	***1400***	**3**	***9/16/2019***	**0**	**1.60**
11BMH49	Interconnection	*No*	10	*Dry*			0	*Flow*	*E.coli*	*470*	2	*2/28/2017*	0	1.40
28IMH15	Interconnection	*No*	10	*Dry*			0	*Submerged*			1	*7/17/2018*	0	1.20
4FMH90	Interconnection	*No*	10	*Flow*	*E.coli*	*20*	0	*Not Required*				*10/29/2015*	0	1.00
6DMH97	Interconnection	*No*	10	*Flow*	*E.coli*	*<10*	0	*Not Required*				*12/5/2023*	0	1.00
21EMH64	Interconnection	*No*	10	*Dry*			0	*Not Required*				*3/3/2022*	0	1.00
6DSDO187	SDO	*No*	0	*Flow*	*E.coli*	*>80,000*	10	*Not Required*				*12/21/2023*	0	8.00
7HSDO285	SDO	*No*	0	*Flow*	*E.coli*	*43000*	8	*Not Required*				*11/6/2023*	0	6.40
8ISDO156	SDO	*No*	0	*Flow*	*E.coli*	*57000*	9	*Flow*	*E.coli*	*820*	2	*12/13/2023*	0	5.80
12FSDO305	SDO	*No*	0	*Flow*	*E.coli*	*16000*	5	*Flow*	*E.coli*	*>80,000*	10	*12/5/2023*	0	5.00
23GSDO132	SDO	*No*	0	*Flow*	*E.coli*	*28000*	6	*Not Required*				*11/22/2021*	0	4.80
20GSDO161	SDO	*No*	0	*Flow*	*E.coli*	*21000*	6	*Not Required*				*12/11/2023*	0	4.80
21HCSO046-1 (15GMH290)	CSO	*No*	0	*Flow*	*E.coli*	*20000*	6	*Not Required*				*12/14/2021*	0	4.80
21HCSO046-1 (23IMH1)	CSO	*No*	0	*Flow*	*E.coli*	*15000*	5	*Not Required*				*2/13/2020*	0	4.00
18GSDO233	SDO	*No*	0	*Flow*	*E.coli*	*13000*	5	*Not Required*				*12/19/2023*	0	4.00
6GSDO165	SDO	*No*	0	*Flow*	*E.coli*	*10000*	5	*Not Required*				*4/11/2014*	0	4.00
21MSDO50	SDO	*No*	0	*Flow*	*Enterococci*	*6400*	5	*Not Required*				*12/20/2023*	0	4.00
9KSDO101	SDO	*No*	0	*Flow*	*Enterococci*	*5800*	5	*Not Required*				*9/23/2021*	0	4.00
30JSDO30	SDO	*No*	0	*Flow*	*Enterococci*	*5500*	5	*Not Required*				*3/12/2015*	0	4.00
10LSDO094	SDO	*No*	0	*Flow*	*Enterococci*	*5000*	5	*Not Required*				*3/21/2023*	0	4.00
13ESDO176	SDO	*No*	0	*Flow*	*E.coli*	*1100*	3	*Flow*	*E.coli*	*>80,000*	10	*11/2/2015*	0	3.80

	WEIGHT (w/ WW):		10%				60%				20%		10%	
	WEIGHT (w/o WW):		10%				80%				0%		10%	
FACILITY ID[A]	CRITERIA:	*Beach*	Discharge Location SCORE	*Dry Weather Flow Cond at "sampling location"*	*Dry Weather Bacteria (type)*	*Dry Weather Bacteria (result)*	Dry Weather SCORE	*Wet Weather Flow Cond at "sampling location"*	*Wet Weather Bacteria (type)*	*Wet Weather Bacteria (result)*	Wet Weather SCORE	*Most Recent Pipe/Bldg Insp Date [B]*	Most Recent Insp SCORE	TOTAL SCORE
21HCSO046-1 (19HMH222)	CSO	*No*	0	*Flow*	*E.coli*	*6400*	4	*Not Required*				*11/1/2021*	0	3.20
21HSDO045	SDO	*No*	0	*Flow*	*E.coli*	*6100*	4	*Not Required*				*10/25/2018*	0	3.20
22KCSO065	CSO	*No*	0	*Flow*	*Enterococci*	*4900*	4	*Not Required*				*1/10/2019*	0	3.20
10LSDO096	SDO	*No*	0	*Flow*	*Enterococci*	*4500*	4	*Not Required*				*8/8/2017*	0	3.20
23LSDO075	SDO	*No*	0	*Flow*	*Enterococci*	*4400*	4	*Not Required*				*8/21/2018*	0	3.20
30JSDO6	SDO	*No*	0	*Flow*	*Enterococci*	*2700*	4	*Not Required*				*12/17/2019*	0	3.20
26KSDO099	SDO	*No*	0	*Flow*	*Enterococci*	*2600*	4	*Flow*	*Enterococci*	*1600*	4	*9/29/2015*	0	3.20
22KCSO068	CSO	*No*	0	*Flow*	*Enterococci*	*2100*	4	*Not Required*				*1/20/2022*	0	3.20
28LSDO074/28LSDO075/28LSDO076	SDO	*No*	0	*Flow*	*Enterococci*	*1800*	4	*Not Required*				*11/7/2018*	0	3.20
21MCSO078	CSO	*No*	0	*Flow*	*Enterococci*	*1600*	4	*Not Required*				*11/25/2019*	0	3.20
26JSDO049	SDO	*No*	0	*Flow*	*Enterococci*	*1500*	4	*Not Required*				*7/29/2019*	0	3.20
22LCSO073	CSO	*No*	0	*Flow*	*Enterococci*	*1500*	4	*Not Required*				*8/22/2019*	0	3.20
29MCSO013	CSO	*No*	0	*Flow*	*Enterococci*	*1300*	4	*Not Required*				*1/23/2020*	0	3.20
5ESDO180	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*>80,000*	10	*NA*	10	3.00
13FSDO96	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*>80,000*	10	*NA*	10	3.00
12BSDO124	SDO	*No*	0	*Flow*	*E.coli*	*5800*	4	*Flow*	*E.coli*	*4000*	3	*3/20/2023*	0	3.00
26LSDO106	SDO	*No*	0	*Flow*	*Enterococci*	*730*	3	*Flow*	*Enterococci*	*11000*	6	*5/1/2018*	0	3.00
26KSDO254	SDO	*No*	0	*Flow*	*Enterococci*	*240*	2	*Flow*	*Enterococci*	*2000*	4	*NA*	10	3.00
24CSDO174	SDO	*No*	0	*Flow*	*E.coli*	*1200*	3	*Not Required*				*4/14/2009*	5	2.90
4ESDO69	SDO	*No*	0	*Flow*	*E.coli*	*280*	2	*Flow*	*E.coli*	*10000*	5	*1/9/2012*	5	2.70
6DSDO86	SDO	*No*	0	*Submerged*			1	*Flow*	*E.coli*	*17000*	5	*NA*	10	2.60
24LSDO22	SDO	*No*	0	*Flow*	*Enterococci*	*160*	2	*Not Required*				*NA*	10	2.60
4FSDO203	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*40000*	8	*NA*	10	2.60
4ESDO64	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*>80,000*	10	*4/28/2009*	5	2.50
7CSDO006	SDO	*No*	0	*Flow*	*E.coli*	*4500*	3	*Not Required*				*6/15/2023*	0	2.40
21HSDO001	SDO	*No*	0	*Flow*	*E.coli*	*3500*	3	*Not Required*				*1/13/2020*	0	2.40
19GSDO043	SDO	*No*	0	*Flow*	*E.coli*	*3300*	3	*Not Required*				*7/10/2023*	0	2.40
7HSDO105	SDO	*No*	0	*Flow*	*E.coli*	*3000*	3	*Not Required*				*11/27/2023*	0	2.40
13DSDO077	SDO	*No*	0	*Flow*	*E.coli*	*2500*	3	*Not Required*				*3/19/2019*	0	2.40
8ESDO31	SDO	*No*	0	*Flow*	*E.coli*	*1900*	3	*Not Required*				*11/18/2015*	0	2.40
13DSDO078	SDO	*No*	0	*Flow*	*E.coli*	*1700*	3	*Not Required*				*3/19/2019*	0	2.40
13FSDO11	SDO	*No*	0	*Flow*	*E.coli*	*1200*	3	*Not Required*				*12/24/2018*	0	2.40
25DSDO040	SDO	*No*	0	*Flow*	*E.coli*	*1000*	3	*Not Required*				*9/4/2018*	0	2.40
25LSDO144	SDO	*No*	0	*Flow*	*Enterococci*	*820*	3	*Not Required*				*9/5/2023*	0	2.40
21KCSO070	CSO	*No*	0	*Flow*	*Enterococci*	*820*	3	*Not Required*				*7/11/2022*	0	2.40
29JSDO212	SDO	*No*	0	*Flow*	*Enterococci*	*600*	3	*Not Required*				*2/24/2022*	0	2.40
18LCSO086	CSO	*No*	0	*Flow*	*Enterococci*	*520*	3	*Not Required*				*1/9/2019*	0	2.40
13FSDO95	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*30000*	7	*NA*	10	2.40
26KSDO050	SDO	*No*	0	*Standing Water*			1	*Flow*	*Enterococci*	*570*	3	*NA*	10	2.20
25GSDO041	SDO	*No*	0	*Flow*	*EColi*	*370*	2	*Not Required*				*5/18/2009*	5	2.10
2FSDO85	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*44000*	8	*6/11/2012*	5	2.10
5GSDO116	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*44000*	8	*3/23/2009*	5	2.10
8JSDO102	SDO	*No*	0	*Dry*			0	*Flow*	*Enterococci*	*33000*	8	*11/16/2009*	5	2.10
5ESDO184	SDO	*No*	0	*Flow*	*E.coli*	*<10*	0	*Flow*	*E.coli*	*>80,000*	10	*2/1/2018*	0	2.00
25ESDO037	SDO	*No*	0	*Standing Water*			1	*Flow*	*E.coli*	*35000*	7	*11/11/2021*	0	2.00
20GSDO163	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*11000*	5	*Pre-Consent Decree*	10	2.00
13FSDO97	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*10000*	5	*NA*	10	2.00

	WEIGHT (w/ WW):		10%				60%				20%		10%	
	WEIGHT (w/o WW):		10%				80%				0%		10%	
FACILITY ID[A]	CRITERIA:	Beach	Discharge Location SCORE	Dry Weather Flow Cond at "sampling location"	Dry Weather Bacteria (type)	Dry Weather Bacteria (result)	Dry Weather SCORE	Wet Weather Flow Cond at "sampling location"	Wet Weather Bacteria (type)	Wet Weather Bacteria (result)	Wet Weather SCORE	Most Recent Pipe/Bldg Insp Date [B]	Most Recent Insp SCORE	TOTAL SCORE
7HSDO346	SDO	No	0	Dry			0	Flow	E.coli	32000	7	3/24/2009	5	1.90
24DSDO032	SDO	No	0	Standing Water			1	Flow	E.coli	21000	6	1/16/2023	0	1.80
24LCSO060	CSO	No	0	Standing Water			1	Flow	Enterococci	18000	6	7/25/2019	0	1.80
23LSDO15	SDO	No	0	Submerged	Enterococci	60	0	Flow	Enterococci	1600	4	NA	10	1.80
12HSDO1 (12HMH26)	SDO	No	0	Submerged			1	Incomplete	0	0		NA	10	1.80
12HSDO1 (12HMH27)	SDO	No	0	Submerged			1	Incomplete	0	0		Pre-Consent Decree	10	1.80
27JSDO044	SDO	No	0	Standing Water			1	Submerged			1	NA	10	1.80
21HSDO047	SDO	No	0	Flow	E.coli	900	2	Flow	E.coli	2600	3	10/25/2018	0	1.80
13BSDO11	SDO	No	0	Flow	E.coli	<10	0	Flow	E.coli	5400	4	Pre-Consent Decree	10	1.80
29JSDO029	SDO	No	0	Flow	Enterococci	<10	0	Flow	Enterococci	1300	4	NA	10	1.80
5ESDO181	SDO	No	0	Cannot Open			1	Submerged			1	Pre-Consent Decree	10	1.80
28LSDO077	SDO	No	0	CNL			1	Not Required				NA	10	1.80
9KSDO16	SDO	No	0	Dry			0	Flow	Enterococci	43000	9	2/8/2023	0	1.80
6DSDO83	SDO	No	0	Dry			0	Flow	E.coli	9000	4	NA	10	1.80
5FSDO254	SDO	No	0	Dry			0	Flow	E.coli	5200	4	Pre-Consent Decree	10	1.80
3ESDO207	SDO	No	0	Dry			0	Flow	E.coli	5000	4	NA	10	1.80
29PSDO005	SDO	No	0	Dry			0	Flow	Enterococci	2100	4	NA	10	1.80
1FSDO31	SDO	No	0	Standing Water			1	Flow	E.coli	3300	3	12/17/2011	5	1.70
4FSDO189	SDO	No	0	Dry			0	Flow	E.coli	22000	6	6/6/2012	5	1.70
8KSDO49	SDO	No	0	Dry			0	Flow	Enterococci	19000	6	11/16/2009	5	1.70
13FSDO12	SDO	No	0	Flow	E.coli	820	2	Not Required				2/21/2017	0	1.60
5FSDO117	SDO	No	0	Flow	E.coli	660	2	Not Required				12/10/2013	0	1.60
13ESDO175	SDO	No	0	Flow	E.coli	630	2	Not Required				1/14/2015	0	1.60
6GSDO108	SDO	No	0	Flow	E.coli	610	2	Not Required				1/16/2023	0	1.60
28KSDO61	SDO	No	0	Flow	Enterococci	450	2	Not Required				1/11/2016	0	1.60
8JSDO50	SDO	No	0	Flow	E.coli	440	2	Not Required				5/29/2019	0	1.60
27LSDO020/27LSDO022	SDO	No	0	Flow	Enterococci	410	2	Not Required				12/7/2020	0	1.60
8JSDO103	SDO	No	0	Flow	E.coli	360	2	Not Required				2/7/2017	0	1.60
23LSDO164	SDO	No	0	Flow	Enterococci	330	2	Not Required				3/16/2016	0	1.60
27JSDO001	SDO	No	0	Flow	Enterococci	320	2	Not Required				8/23/2018	0	1.60
19LCSO084	CSO	No	0	Flow	Enterococci	280	2	Not Required				6/21/2018	0	1.60
15FSDO288	SDO	No	0	Flow	E.coli	260	2	Not Required				12/28/2020	0	1.60
23LCSO064	CSO	No	0	Flow	Enterococci	260	2	Not Required				1/17/2019	0	1.60
21LCSO076	CSO	No	0	Flow	Enterococci	250	2	Not Required				2/7/2022	0	1.60
21NCSO80	CSO	No	0	Flow	Enterococci	230	2	Not Required				4/16/2019	0	1.60
21MSDO010	SDO	No	0	Flow	Enterococci	210	2	Not Required				1/31/2019	0	1.60
25LSDO058	SDO	No	0	Flow	Enterococci	180	2	Not Required				8/27/2018	0	1.60
28KSDO010	SDO	No	0	Flow	Enterococci	160	2	Not Required				3/13/2019	0	1.60
26KSDO35	SDO	No	0	Flow	Enterococci	140	2	Not Required				8/2/2019	0	1.60
19NCSO081	CSO	No	0	Flow	Enterococci	130	2	Flow	Enterococci	320	2	1/16/2019	0	1.60
11MSDO093	SDO	No	0	Flow	Enterococci	120	2	Not Required				6/10/2019	0	1.60
29MSDO049	SDO	No	0	Flow	Enterococci	120	2	Not Required				7/10/2017	0	1.60
24LSDO233	SDO	No	0	Flow	Enterococci	110	2	Not Required				7/22/2019	0	1.60
19MCSO082	CSO	No	0	Flow	Enterococci	110	2	Not Required				5/24/2021	0	1.60
12BSDO33	SDO	No	0	Flow	E.coli	20	0	Flow	E.coli	3200	3	NA	10	1.60
7HSDO348	SDO	No	0	Standing Water			1	Flow	E.coli	13000	5	5/20/2019	0	1.60
5GSDO115	SDO	No	0	Dry			0	Flow	E.coli	49000	8	11/16/2015	0	1.60

	WEIGHT (w/ WW):		10%				60%				20%		10%	
	WEIGHT (w/o WW):		10%				80%				0%		10%	
FACILITY ID[A]	CRITERIA:	*Beach*	Discharge Location SCORE	*Dry Weather Flow Cond at "sampling location"*	*Dry Weather Bacteria (type)*	*Dry Weather Bacteria (result)*	Dry Weather SCORE	*Wet Weather Flow Cond at "sampling location"*	*Wet Weather Bacteria (type)*	*Wet Weather Bacteria (result)*	Wet Weather SCORE	*Most Recent Pipe/Bldg Insp Date [B]*	Most Recent Insp SCORE	TOTAL SCORE
6FSDO233	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*2700*	3	*Pre-Consent Decree*	10	1.60
21HSDO048	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*1400*	3	*NA*	10	1.60
7HSDO347	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*11000*	5	*3/25/2009*	5	1.50
26FSDO038	SDO	*No*	0	*Standing Water*			1	*Flow*	*E.coli*	*530*	2	*1/11/2007*	5	1.50
6DSDO85	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*39000*	7	*11/18/2015*	0	1.40
9BSDO49	SDO	*No*	0	*Flow*	*E.coli*	*<10*	0	*Flow*	*E.coli*	*240*	2	*NA*	10	1.40
24GSDO034	SDO	*No*	0	*Standing Water*			1	*Not Required*				*5/18/2009*	5	1.30
5FSDO244	SDO	*No*	0	*Standing Water*			1	*Submerged*			1	*5/19/2009*	5	1.30
30PSDO107	SDO	*No*	0	*Flow*	*Enterococci*	*70*	0	*Flow*	*Enterococci*	*1200*	4	*5/18/2009*	5	1.30
31PSDO84	SDO	*No*	0	*Flow*	*Enterococci*	*10*	0	*Flow*	*Enterococci*	*4300*	4	*5/18/2009*	5	1.30
24DSDO150	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*6700*	4	*1/9/2006*	5	1.30
29JCSO017	CSO	*No*	0	*Flow*	*Enterococci*	*370*	2	*Flow*	*Enterococci*	*30*	0	*7/19/2018*	0	1.20
4FSDO204	SDO	*No*	0	*Flow*	*E.coli*	*90*	0	*Flow*	*E.coli*	*28000*	6	*12/7/2022*	0	1.20
30JSDO19	SDO	*No*	0	*Flow*	*Enterococci*	*40*	0	*Flow*	*Enterococci*	*19000*	6	*5/13/2015*	0	1.20
3ESDO186	SDO	*No*	0	*Standing Water*			1	*Flow*	*E.coli*	*3200*	3	*8/21/2017*	0	1.20
5ESDO182	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*22000*	6	*11/18/2015*	0	1.20
6DSDO84	SDO	*No*	0	*Dry*			0	*Submerged*			1	*Pre-Consent Decree*	10	1.20
12BSDO10	SDO	*No*	0	*Dry*			0	*Cannot Open*			1	*Pre-Consent Decree*	10	1.20
20GSDO164	SDO	*No*	0	*Dry*			0	*Submerged*			1	*NA*	10	1.20
4FSDO118	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*3500*	3	*8/11/2011*	5	1.10
8ISDO155	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*2900*	3	*6/2/2009*	5	1.10
8ISDO158	SDO	*No*	0	*Flow*	*E.coli*	*80*	0	*Flow*	*E.coli*	*2500*	3	*6/2/2009*	5	1.10
28LCSO019	CSO	*No*	0	*Standing Water*			1	*Flow*	*Enterococci*	*230*	2	*1/14/2019*	0	1.00
29NSDO015	SDO	*No*	0	*Standing Water*			1	*Flow*	*Enterococci*	*160*	2	*8/5/2019*	0	1.00
12HSDO92	SDO	*No*	0	*Flow*	*E.coli*	*100*	0	*Not Required*				*NA*	10	1.00
23LCSO062	CSO	*No*	0	*Flow*	*Enterococci*	*60*	0	*Not Required*				*NA*	10	1.00
3ESDO185	SDO	*No*	0	*Flow*	*E.coli*	*70*	0	*Flow*	*E.coli*	*19000*	5	*2/22/2018*	0	1.00
26LSDO109	SDO	*No*	0	*Flow*	*Enterococci*	*40*	0	*Not Required*				*NA*	10	1.00
28LCSO012	CSO	*No*	0	*Flow*	*Enterococci*	*<10*	0	*Not Required*				*NA*	10	1.00
23LSDO074	SDO	*No*	0	*Dry*			0	*Flow*	*Enterococci*	*7300*	5	*11/14/2018*	0	1.00
4FSDO1	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*100*	0	*NA*	10	1.00
30PSDO62	SDO	*No*	0	*Flow*	*Enterococci*	*<10*	0	*Flow*	*Enterococci*	*460*	2	*9/20/2012*	5	0.90
29NCSO014	CSO	*No*	0	*StandingWater*			1	*Incomplete*	*0*	*0*		*6/5/2018*	0	0.80
24NCSO003	CSO	*No*	0	*Standing Water*			1	*Incomplete*	*0*	*0*		*7/15/2019*	0	0.80
11GSDO344 (11GMH247)	SDO	*No*	0	*Standing Water*			1	*Incomplete*	*0*	*0*		*10/2/2018*	0	0.80
19LCSO085	CSO	*No*	0	*Standing Water*			1	*Incomplete*	*0*	*0*		*3/21/2017*	0	0.80
6DSDO91	SDO	*No*	0	*Standing Water*			1	*Submerged*			1	*12/18/2018*	0	0.80
2FSDO93	SDO	*No*	0	*Standing Water*			1	*Submerged*			1	*11/3/2015*	0	0.80
11BSDO123	SDO	*No*	0	*Standing Water*			1	*Submerged*			1	*3/16/2021*	0	0.80
5FSDO245	SDO	*No*	0	*Standing Water*			1	*Standing Water*			1	*5/8/2018*	0	0.80
19GSDO199	SDO	*No*	0	*Standing Water*			1	*Standing Water*			1	*8/22/2013*	0	0.80
25LCSO057	CSO	*No*	0	*Standing Water*			1	*Standing Water*			1	*7/29/2019*	0	0.80
21KSDO069	SDO	*No*	0	*Standing Water*			1	*Standing Water*			1	*3/27/2017*	0	0.80
6GSDO109	SDO	*No*	0	*Standing Water*			1	*Not Required*				*6/9/2020*	0	0.80
23LSDO196	SDO	*No*	0	*Standing Water*			1	*Not Required*				*6/21/2018*	0	0.80
25MSDO007	SDO	*No*	0	*Standing Water*			1	*Not Required*				*1/11/2016*	0	0.80
26JSDO101	SDO	*No*	0	*Standing Water*			1	*Not Required*				*7/22/2019*	0	0.80

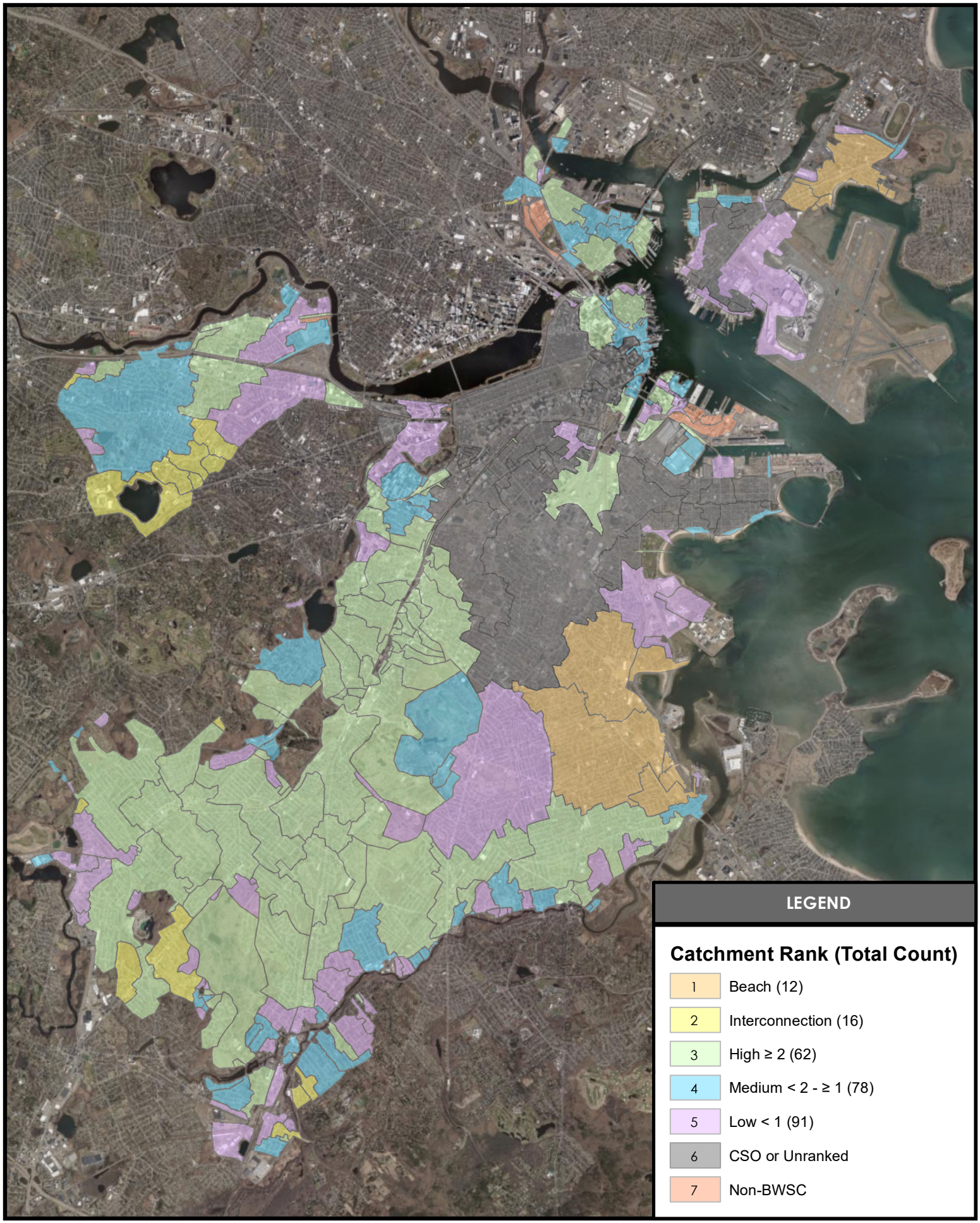
	WEIGHT (w/ WW):		10%				60%				20%		10%	
	WEIGHT (w/o WW):		10%				80%				0%		10%	
FACILITY ID[A]	CRITERIA:	*Beach*	Discharge Location SCORE	*Dry Weather Flow Cond at "sampling location"*	*Dry Weather Bacteria (type)*	*Dry Weather Bacteria (result)*	Dry Weather SCORE	*Wet Weather Flow Cond at "sampling location"*	*Wet Weather Bacteria (type)*	*Wet Weather Bacteria (result)*	Wet Weather SCORE	*Most Recent Pipe/Bldg Insp Date [B]*	Most Recent Insp SCORE	TOTAL SCORE
21HSDO002	SDO	*No*	0	*Standing Water*			1	*Not Required*				*1/13/2020*	0	0.80
23HSDO042	SDO	*No*	0	*Standing Water*			1	*Not Required*				*1/13/2020*	0	0.80
8ISDO154	SDO	*No*	0	*Flow*	*E.coli*	*150*	0	*Flow*	*E.coli*	*7000*	4	*6/3/2019*	0	0.80
26LSDO70	SDO	*No*	0	*Flow*	*Enterococci*	*55*	0	*Flow*	*Enterococci*	*4800*	4	*6/26/2018*	0	0.80
6DSDO57	SDO	*No*	0	*Flow*	*E.coli*	*10*	0	*Flow*	*E.coli*	*6000*	4	*4/16/2019*	0	0.80
8BSDO126	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*7500*	4	*1/14/2014*	0	0.80
13ESDO174	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*5800*	4	*12/19/2023*	0	0.80
8JSDO41	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*5300*	4	*9/15/2015*	0	0.80
26KSDO052	SDO	*No*	0	*Dry*			0	*Flow*	*Enterococci*	*4300*	4	*5/30/2017*	0	0.80
29JSDO129	SDO	*No*	0	*Dry*			0	*Flow*	*Enterococci*	*1300*	4	*5/14/2018*	0	0.80
4FSDO16	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*3500*	3	*7/29/2014*	0	0.60
24GSDO035	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*3500*	3	*12/13/2021*	0	0.60
8ISDO207	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*1400*	3	*3/2/2017*	0	0.60
14CSDO9	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*1000*	3	*5/13/2014*	0	0.60
28LSDO073	SDO	*No*	0	*Dry*			0	*Flow*	*Enterococci*	*500*	3	*8/23/2018*	0	0.60
23LSDO195	SDO	*No*	0	*Flow*	*Enterococci*	*90*	0	*Not Required*				*5/20/2006*	5	0.50
4FSDO119	SDO	*No*	0	*Flow*	*E.coli*	*80*	0	*Not Required*				*9/18/2007*	5	0.50
28KSDO386	SDO	*No*	0	*Flow*	*Enterococci*	*50*	0	*Not Required*				*4/21/2011*	5	0.50
21CSDO212	SDO	*No*	0	*Flow*	*E.coli*	*30*	0	*Not Required*				*3/19/2012*	5	0.50
29NSDO135	SDO	*No*	0	*Flow*	*Enterococci*	*20*	0	*Not Required*				*8/1/2007*	5	0.50
2FSDO120	SDO	*No*	0	*Flow*	*E.coli*	*<10*	0	*Not Required*				*10/22/2007*	5	0.50
2ESDO5	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*140*	0	*1/9/2012*	5	0.50
1ESDO24	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*110*	0	*1/18/2012*	5	0.50
8ISDO153	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*20*	0	*6/2/2009*	5	0.50
6HSDO106	SDO	*No*	0	*Dry*			0	*Dry*				*9/6/2011*	5	0.50
9ESDO243	SDO	*No*	0	*Flow*	*E.coli*	*70*	0	*Flow*	*E.coli*	*360*	2	*7/11/2023*	0	0.40
17FSDO12	SDO	*No*	0	*Flow*	*E.coli*	*10*	0	*Flow*	*E.coli*	*910*	2	*5/24/2021*	0	0.40
8CSDO25	SDO	*No*	0	*Flow*	*E.coli*	*10*	0	*Flow*	*E.coli*	*320*	2	*7/12/2018*	0	0.40
23HSDO040	SDO	*No*	0	*Flow*	*E.coli*	*<10*	0	*Flow*	*E.coli*	*860*	2	*1/13/2020*	0	0.40
8ISDO209	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*520*	2	*2/22/2017*	0	0.40
8ESDO33	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*440*	2	*11/18/2015*	0	0.40
5GSDO112	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*340*	2	*11/16/2015*	0	0.40
12BSDO14	SDO	*No*	0	*Dry*			0	*Submerged*			1	*12/11/2018*	0	0.20
26GSDO01	SDO	*No*	0	*Flow*	*E.coli*	*190*	0	*Not Required*				*10/31/2018*	0	0.00
24CSDO39	SDO	*No*	0	*Flow*	*E.coli*	*110*	0	*Not Required*				*3/1/2018*	0	0.00
9LSDO095	SDO	*No*	0	*Flow*	*Enterococci*	*100*	0	*Not Required*				*5/23/2018*	0	0.00
21MCSO079	CSO	*No*	0	*Flow*	*Enterococci*	*90*	0	*Not Required*				*8/2/2021*	0	0.00
19GSDO194	SDO	*No*	0	*Flow*	*E.coli*	*80*	0	*Not Required*				*1/16/2020*	0	0.00
12ESDO418	SDO	*No*	0	*Flow*	*E.coli*	*70*	0	*Not Required*				*3/20/2023*	0	0.00
5FSDO253	SDO	*No*	0	*Flow*	*E.coli*	*70*	0	*Not Required*				*7/16/2015*	0	0.00
31OSDO4	SDO	*No*	0	*Flow*	*Enterococci*	*70*	0	*Not Required*				*4/5/2021*	0	0.00
8CSDO26	SDO	*No*	0	*Flow*	*E.coli*	*60*	0	*Flow*	*E.coli*	*55*	0	*7/12/2018*	0	0.00
11ISDO577	SDO	*No*	0	*Flow*	*E.coli*	*60*	0	*Not Required*				*5/8/2023*	0	0.00
6GSDO111	SDO	*No*	0	*Flow*	*E.coli*	*60*	0	*Not Required*				*9/24/2013*	0	0.00
23LSDO202	SDO	*No*	0	*Flow*	*Enterococci*	*45*	0	*Not Required*				*12/10/2018*	0	0.00
11GSDO344 (11GMH246)	SDO	*No*	0	*Flow*	*E.coli*	*40*	0	*Incomplete*	*0*	*0*		*10/2/2018*	0	0.00

	WEIGHT (w/ WW):		10%				60%				20%		10%	
	WEIGHT (w/o WW):		10%				80%				0%		10%	
FACILITY ID[A]	**CRITERIA:**	*Beach*	**Discharge Location SCORE**	*Dry Weather Flow Cond at "sampling location"*	*Dry Weather Bacteria (type)*	*Dry Weather Bacteria (result)*	**Dry Weather SCORE**	*Wet Weather Flow Cond at "sampling location"*	*Wet Weather Bacteria (type)*	*Wet Weather Bacteria (result)*	**Wet Weather SCORE**	*Most Recent Pipe/Bldg Insp Date [B]*	**Most Recent Insp SCORE**	**TOTAL SCORE**
27LCSO10	CSO	*No*	0	*Flow*	*Enterococci*	*40*	0	*Incomplete*	*0*	*0*		*12/11/2018*	0	0.00
6GSDO166	SDO	*No*	0	*Flow*	*E.coli*	*30*	0	*Not Required*				*8/28/2023*	0	0.00
16LSDO097	SDO	*No*	0	*Flow*	*Enterococci*	*30*	0	*Not Required*				*1/18/2022*	0	0.00
9KSDO100	SDO	*No*	0	*Flow*	*Enterococci*	*20*	0	*Not Required*				*1/12/2016*	0	0.00
25MCSO005	CSO	*No*	0	*Flow*	*Enterococci*	*10*	0	*Incomplete*	*0*	*0*		*12/10/2018*	0	0.00
22CSDO384	SDO	*No*	0	*Flow*	*E.coli*	*10*	0	*Not Required*				*11/12/2015*	0	0.00
8ESDO35	SDO	*No*	0	*Flow*	*E.coli*	*<10*	0	*Flow*	*E.coli*	*130*	0	*2/21/2017*	0	0.00
5GSDO116A	SDO	*No*	0	*Flow*	*E.coli*	*<10*	0	*Not Required*				*12/24/2018*	0	0.00
12HSDO2	SDO	*No*	0	*Flow*	*E.coli*	*<10*	0	*Not Required*				*8/30/2021*	0	0.00
8BSDO122	SDO	*No*	0	*Flow*	*E.coli*	*<10*	0	*Not Required*				*9/18/2019*	0	0.00
6GSDO110	SDO	*No*	0	*Flow*	*E.coli*	*<10*	0	*Not Required*				*8/28/2023*	0	0.00
25MSDO006	SDO	*No*	0	*Flow*	*Enterococci*	*<10*	0	*Not Required*				*2/6/2023*	0	0.00
26LSDO084	SDO	*No*	0	*Flow*	*Enterococci*	*<10*	0	*Not Required*				*12/10/2018*	0	0.00
26LCSO009	CSO	*No*	0	*Flow*	*Enterococci*	*<10*	0	*Not Required*				*6/3/2019*	0	0.00
25NCSO004	CSO	*No*	0	*Flow*	*Enterococci*	*<10*	0	*Not Required*				*7/15/2019*	0	0.00
12MSDO091	SDO	*No*	0	*Flow*	*Enterococci*	*<10*	0	*Not Required*				*5/9/2018*	0	0.00
16LSDO122	SDO	*No*	0	*Flow*	*Enterococci*	*<10*	0	*Not Required*				*1/11/2022*	0	0.00
17MSDO33	SDO	*No*	0	*Flow*	*Enterococci*	*<10*	0	*Not Required*				*12/18/2019*	0	0.00
22KCSO072	CSO	*No*	0	*Dry*			0	*Incomplete*	*0*	*0*		*5/6/2019*	0	0.00
8FSDO1	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*40*	0	*3/14/2019*	0	0.00
26JSDO052	SDO	*No*	0	*Dry*			0	*Flow*	*E.coli*	*<10*	0	*1/17/2019*	0	0.00
5ESDO183	SDO	*No*	0	*Dry*			0	*Dry*				*6/15/2015*	0	0.00
6HSDO107	SDO	*No*	0	*Dry*			0	*Dry*				*5/9/2017*	0	0.00
9ESDO229	SDO	*No*	0	*Dry*			0	*Dry*				*4/10/2014*	0	0.00
5CSDO110	SDO	*No*	0	*Dry*			0	*Not Required*				*5/30/2018*	0	0.00
10BSDO15	SDO	*No*	0	*Dry*			0	*Not Required*				*2/12/2020*	0	0.00
22LSDO580	SDO	*No*	0	*Dry*			0	*Not Required*				*1/11/2016*	0	0.00
6DSDO184	SDO	*No*	0	*NA [C]*			0	*NA [C]*				*NA*	0	0.00
27JSDO096	SDO	*No*	0	*NA [D]*			0	*NA [D]*				*NA*	0	0.00

NOTES:

[A]Outfalls in Bold were prioritized by EPA in 2014

[B]Outfalls with Date of Last Inspection "NA" were complete based on outfall screening and did not require upstream investgation of manholes or buildings. Outfalls listed as "Pre-Consent Decree" were completed prior to lodging of the Consent Decree in August 2012.



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Notes:
1. Coordinate System: NAD 1983 StatePlane Massachusetts Mainland FIPS 2001 Feet
2. Source data: Boston Water Subcatchment Data
3. Imagery: USGS 2019 Ortho Imagery

Figure 1: Subcatchment Priority Ranking Map

Boston Water and Sewer Commission
January 2024

Boston Water and Sewer Commission

0 3,000 6,000 Feet

N

Prepared by: J.Z. 01/26/2024

Appendix A

Citywide Illegal Connection Investigation Program
Dry Weather Screening Protocols

Citywide Illegal Connection Investigation, Phase 5 (CWI5)

Dry Weather Outfall Screening Protocols

To:	Amy Schofield Boston Water and Sewer Commission 980 Harrison Ave Boston, MA	From:	Jennifer Zoppo, PMP Stantec 226 Causeway Street 6th Floor, Boston, MA
File:	195150656	Last Revised Date:	January 20, 2023

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INTRODUCTION

The purpose of this document is to outline field procedures to perform dry weather outfall screening and sampling of the Boston Water and Sewer Commission's (Commission's or BWSC's) storm drain outfalls (SDOs), combined sewer overflow outfalls (CSOs), and storm drain interconnections between the Commission and storm drains owned by other Municipal Separate Storm Sewer Systems (MS4s). This document was originally developed in 2010 under Phase 2 and has been revised numerous times as the program evolved, primarily capturing changes to the list of outfalls to be screened. Appendix A provides a history of revisions. A significant update was completed in November of 2020. At that time the protocols were revised to capture changes to the sample collection and analysis procedures that had occurred over time, to update the definition of dry weather, to address locations that have not been sampled in the past due to standing water or other reasons, and to include an updated health and safety plan addressing impacts of COVID-19. This January 2023 revision includes two changes to the list of outfalls to be screened. Outfall 25MCSO005 was moved from the list of CSOs to the list of SDOs, as separation work was completed during 2022 and the outfall now conveys only stormwater. A note was added for outfall 6DSDO184 because it appears to be a cross-culvert only with no connected storm drain infrastructure. It remains on the SDO list but does not require screening.

The goal of the dry weather outfall screening program is to identify locations with dry weather flow and determine if the flow is contaminated. Screening will consist of recording weather conditions, characterizing each location's current condition (size, material, defects, etc.), observing visual and olfactory characteristics of dry weather flow, and collecting samples to be analyzed for bacteria and other parameters as discussed below.

Stacey DePasquale Engineering, Inc. (SDE), under contract to Stantec, will perform the outfall screening field work. SDE has been completing dry weather outfall screening and sampling for the Commission since 2010 and is therefore familiar with each sampling location. The current (2023) list of approved storm drain outfalls (Table B-1), interconnections (Table B-2), and CSO outfalls (Table B-3) are included in Appendix B. The interconnection sampling locations will be storm drain manholes.

Each outfall will be identified by its unique outfall Facility ID, and interconnections will be identified by their unique manhole Facility ID, as shown in Appendix B.

WEATHER AND TIDE MONITORING

SDE will continuously monitor (and keep records of) weather forecasts as a basis for determining when a period of acceptable dry weather exists in order to mobilize field crews to perform the dry weather screening. "Screening and Sampling" as described below may proceed under the following conditions:

Less than 0.1 inch of rainfall in the preceding 24 hours.

SDE will use the Commission's rain gauges to confirm that dry weather conditions have been met prior to mobilizing. For tidal locations, Screening and Sampling must be performed near low tide.

SCREENING AND SAMPLING

One day prior to screening and sampling visits, SDE will notify the laboratory and the courier of the schedule for the sampling day.

Sampling Location

A two-person field crew will conduct the screening and sampling by visiting the location of each outfall or interconnection manhole. In cases where the outfall is accessible and is not submerged, the outfall itself will be used for screening and sampling. The field crew will re-assess the recommended sampling location each year to determine if it is suitable. The Commission prefers to get the sample at the outfall if possible.

It is known that some outfalls will not be accessible and that some locations will be in areas subject to tidal inflows or will otherwise be subject to backwater effects. For these outfall locations field crews will locate a suitable screening site in an upstream manhole. The selected manhole will be as near the outfall as possible and free of standing water or back flow from the receiving water. It is anticipated that selected manholes in these cases will be no more than three manholes or 750 feet upstream outside of backflow or tidal influence.

For locations that are submerged or have standing water present[1], SDE will inspect up to three manholes directly upgradient but no more than 750 feet from the outlet. SDE will note which of these locations also has

[1]The term "submerged" is typically used only for outfalls and means that the outfall opening is below the water level of the receiving water. The term "standing water" means there is water present at the invert which is not flowing, and at least a portion of the outfall opening is above the water level of the receiving water. Standing water occurs at both outfalls and manholes but is more common at manholes.

standing water and then, at the first upstream accessible manhole location from the outfall free of standing water, perform the same data recording and sampling as described below. If all manholes inspected upstream of the outfall contain standing water, then a sample will not be collected. Outfalls that are unable to be sampled because they are submerged or have standing water must be reported to the Commission so that an alternate sampling location may be identified. Based on historical outfall screening data, a list of outfalls that are typically submerged or have standing water are provided in Appendix C with recommendations on how to proceed. Recommendations include CCTV, cleaning, continuing investigations upstream with multiple sampling points, and coordinating with other MS4s to improve mapping and confirm system ownership. In the meantime, SDE should continue to visit these outfalls and attempt to identify a suitable sampling location.

If an upstream manhole is used for screening and sampling SDE will note if there is more than one inlet to the manhole as well as the flow characteristics from each pipe. It is important at CSO outfalls to collect a sample at a manhole downstream of the regulator.

Data Collection and Reporting

All observations and activities conducted at each screening location will be recorded on the screening and sampling form included in Appendix D, including the Manhole Facility ID numbers of structures unsuitable for screening and sampling along with the reason for unsuitability. Forms will be completed electronically. Data will be exported to a spreadsheet and paper reports will also be generated and posted on the project SharePoint site on a weekly basis.

Photos will include both close-up and locational shots where possible. The field crew will also record dimensions, shape, material (e.g., concrete, PVC), physical condition, and presence and location of an outfall sign. The outfall signs are posted in various locations depending on the surroundings at each site.

At each location where flow is observed, an observation of flow characteristics will be recorded (odor, color, clarity, turbidity, deposits/stains). Samples will be collected for laboratory analysis of the dry-weather flow for either *E. coli* bacteria or *Enterococcus* bacteria. Tables provided in Appendix B designate each outfall and interconnection location as discharging to fresh or marine waters. Discharges to fresh water bodies shall be sampled for *E. coli* analysis, and those discharging to marine water bodies shall be sampled for *Enterococcus* analysis.

Analytical samples collected will be immediately labeled, sealed, and stored in ice-filled coolers. Samples will be transferred to G&L Laboratories of Quincy, MA for analysis within six hours of sample collection. Completed chains of custody will accompany each shipment to the lab. It is estimated that between 6 and 12 samples will be collected per day for a single crew, depending on distance among outfall locations. All samples will be collected in accordance with the detailed sampling procedures below.

In addition to each analytical sample collected, the field crews will estimate the flow and collect a sample for on-site evaluation of the following parameters:

- Temperature,
- pH,
- Specific Conductivity,
- Surfactants,
- Ammonia,
- Total Residual Chlorine,
- Salinity.

SAMPLING PROCEDURES

The following procedure outlines, in detail, the steps to be taken during outfall and interconnection screening and sampling:

- Prior to the start of sampling, a trip blank sample must be prepared by filling a laboratory-provided sample container with clean bottled water (distilled or bottled drinking water is acceptable). This trip blank sample will be labeled and kept in a cooler with all samples collected that particular day.
- Upon arrival at the appropriate screening location, begin a new Screening and Sampling Form. Blank forms are included in Appendix D.
- Indicate whether the screening location is a storm drain outfall, combined sewer overflow outfall, or interconnection manhole.
- Record all pertinent observational information, including a general description of flow velocity, depth of water, appearance of water, etc. *Note: flow rate will not be calculated in the field during inspections because it would significantly slow down the inspection process. However, flow can be calculated after-the-fact based on information that SDE records in the field during inspections, including the estimated velocity, the diameter of the outfall, and the approximate depth of water.*
- If outfall sampling location is a manhole, complete information related to manhole appearance and condition.
- Record the time of sampling.
- Place a clean grab sampling container into the middle of the flow stream facing upstream. Retrieve the container after it has filled and swirl the contents to coat all inside surfaces with sample water. Dump the contents of the container away from or downstream of sampling location. Repeat this twice, so that sample container is fully rinsed with sample water three times.
- Using the same method, fill and retrieve the sample container a fourth time. Gently swirl container to maintain mixing of the grab sample.
- Open the sterile container for bacterial sampling. Use caution to handle only the outside of each sample container and to maintain sterile conditions during collection of bacterial samples. Fill sterile container with sample water and seal container. If duplicate samples are being collected at a particular location, they should be poured from the same container. The appropriate analysis will be conducted at sample locations as follows:
    - *E. coli* – freshwater discharge locations;
    - *Enterococcus* – marine discharge locations.
- Verify that the sample container is properly sealed and label each sample container with sample identifier, date, time, preservative type (ice only), and initials of sampling personnel. Duplicate samples shall be labeled with a “D” preceding the sample identifier. All information shall be also recorded on the field form.
- Place sample containers in ice-filled coolers until later transport to the lab takes place.
- Conduct on-site measurements of field parameters on remaining volume in sample container. If more volume is needed, a subsequent grab sample may be collected in the manner described for analytical sample collection.

1. Test kits will be used for field measurements of surfactants, ammonia, and total residual chlorine as follows:
    - Ammonia: CHEMetrics K-1510 or Hach Ammonia (Nitrogen) test strips,
    - Surfactants: CHEMetrics K-9400
    - Total Residual Chlorine: CHEMetrics K-2504
2. Oakton PCTSTesr50, a portable meter, will be used for measurements of pH, salinity, temperature, and specific conductivity. (Note that instrumentation shall be checked and calibrated at least bi-weekly.)

- Gently swirl the container to maintain mixing.
- Use manufacture instructions to run the sample for the required field parameters.
- Record results and time of measurements on the field form.
- Clean and store meter during travel between sampling locations.
- For any reusable sampling equipment, decontamination shall be performed as follows:
    1. Rinse equipment with a 70% isopropyl alcohol solution. Rinsate shall be collected in a bucket and disposed of properly.
    2. Rinse equipment with distilled water.
- Note that samples must be transferred to G&L Laboratories within six hours of sample collection, and samples must be analyzed within an **eight-hour holding time** from sample collection.
- Prior to transfer to the lab, a chain of custody shall be filled out and must accompany samples at all times. The person receiving samples at the lab must sign each chain of custody.

QUALITY ASSURANCE/QUALITY CONTROL

This Quality Assurance/Quality Control (QA/QC) section will establish the data quality objectives (DQOs) for the program, as follows:

- Data must be complete and of sufficient detail to assess water quality at each screening location.
- Data should represent actual conditions at the outfall outlet or interconnection manhole inlet.
- Data should be generated by accepted sampling methodologies.
- Data must be reproducible and accurate.

The screening and sampling program has been developed to encompass these DQOs as they pertain to characterizing the physical condition and water quality at each screening location. Sampling techniques selected were based upon past methods employed in the Boston Water & Sewer Commission's monitoring programs and upon standard industry practice. Field crew members from SDE have prior experience with sample methods and equipment usage. The methods proposed for field testing are standard methods, as stated in EPA guidance (EPA, 1986; 2002; 2014). In addition, G&L Laboratories is State and EPA certified to conduct the required analyses.

Table 1-1 lists the analytical methods to be used for each of the parameters to be tested.

Table 1-1: Analytical Methods to be used for Bacterial Analysis

Parameter	Analytical Method
E. Coli	EPA 1603
Enterococcus	EPA1600

Measures employed to ensure that QA/QC DQOs are met are described as follows.

Precision

Precision is the ability to obtain reproducible results when analyzing duplicate samples. The overall sampling precision will be determined by the collection and analysis of field duplicate samples that are not identified as such to the analytical laboratory. Duplicate samples will be collected for the same analysis as the parent samples. They will be assigned an identical sample identifier, except for the addition of “D” preceding the identifier. Duplicate samples are to be collected at the frequency of one per twenty samples.

Because bacteria are living organisms that reproduce and die after sample collection, some degree of disparity between the duplicate sample and the original sample is expected and not necessarily reflective of sample collection or laboratory error.

Accuracy

Accuracy is the degree of difference between a reported value and its true value. As part of ensuring sufficient accuracy, minimization of false positive and false negative analytical data is attempted.

The potential for false positive data values will be assessed through the analysis of laboratory blanks, which must be less than the method detection limit (MDL) or instrument detection limit. Each batch of samples analyzed will be run with a laboratory blank.

Accuracy will also be assessed through the use of control samples of known composition. Laboratory control samples and calibration standards will be used by the laboratory, as needed.

Representativeness

Sample collection under this program is intended to provide data representative of actual conditions at particular screening locations. In order to ensure representativeness, outfall sample locations are selected as close to actual outfall outlets as possible. Where an outfall is unsuitable for sampling at its outlet due to inaccessibility, tidal inflows, or backwater effects, locations upstream may be selected with prior Commission approval only. However, since grab samples are only representative of a snapshot of water quality conditions at a given point in time, they may not be representative of long-term conditions. Data collected must be evaluated while recognizing this limitation.

In addition, samples collected must be representative of water quality at the location they were taken and not be influenced by cross-contamination from other samples collected the same day and stored in the same ice cooler. In order to ensure this, trip blank samples must be collected at the start of each day by filling a laboratory-provided container with clean bottled water. This filled container will be carried throughout the day in the same ice cooler with samples collected.

Sample Handling and Custody

All filled sample containers will be placed on ice immediately following sample collection. They shall then be transported to the lab, G&L Laboratories, within six hours for analysis within 8 hours. (Note that the holding time is applicable from time of sample collection to time of analysis.) A completed chain of custody must accompany each sample shipment to the lab, and sample custody will be tracked throughout the full analytical process in the lab. These forms will be included in the analytical report to Stantec. Table 1-2 lists required types of containers and preservation for each analysis to be performed.

Table 1-2: Requirements for Sample Holding

Parameter	Container Volume	Container Type	Preservative	Holding Time
E. Coli	100 mL	Sterile plastic	Cooled to <10°C	8 hours
Enterococcus	100 mL	Sterile plastic	Cooled to <10°C	8 hours

Instrument/Equipment Testing, Inspection, and Maintenance

Testing, inspection, and maintenance will be performed for all instruments and equipment to be employed for the lab analyses to be conducted as part of this program, and such activities will be done in accordance with G&L Laboratories' quality procedures.

All field sampling equipment and instrumentation will be inspected on a regular basis, and preventative maintenance will be performed. Prior to mobilization to the field sites, equipment and instrumentation will be checked and calibrated in the office. Following each sampling event, all field equipment and instrumentation will be cleaned and stored properly.

Performance Audits and Corrective Actions

Periodic audits of the field program will be conducted by Stantec at the start of the screening and sampling activities and on a random basis to evaluate adherence to and appropriateness of QA/QC requirements in the field. If unacceptable conditions are noted, Stantec and SDE will initiate corrective actions together. These corrective actions may include:

- Re-analyzing samples (if holding times permit doing so);
- Re-sampling and subsequent analysis;
- Evaluating and amending sampling and analytical procedures;
- Accepting potentially flawed data with acknowledgement of uncertainty or inaccuracy by flagging of data and providing a qualifying explanation.

GENERAL FIELD REQUIREMENTS

Any major blockages, collapses, or defects to the storm drainage system or sanitary sewer system (that may pose a public health and safety threat) observed during any field operations will be reported to the Commission with 48 hours.

Field crews are authorized to request a police detail for personal safety reasons at any time.

SDE's Health and Safety Plan is provided in Appendix E and has been updated to include COVID-19 protocols. The Commission does not require safety vests to be issued by the Commission, but crews must have safety vests and they must be worn in the field.

REFERENCES

US Environmental Protection Agency, September 2014. Method 1600: Enterococci in Water by Membrane Filtration Using membrane- Enterococcus Indoxyl- β-D-Glucoside Agar (mEI), EPA 821-R-14-011. US Environmental Protection Agency, Office of Water (4303T), Washington DC.

U.S. Environmental Protection Agency. September 2014. Method 1603: Escherichia coli (E. coli) in Water by Membrane Filtration Using Modified membrane-Thermotolerant Escherichia coli Agar (Modified mTEC). EPA-821-R-14-010. U.S. Environmental Protection Agency, Office of Water (4303T), Washington, DC.

EPA. 1986. Ambient Water Quality Criteria for Bacteria – 1986. January.

EPA. 2009. Urban Stormwater BMP Performance Monitoring. October 2009.

APPENDIX

Appendix A	History of Revisions to Dry Weather Outfall Screening Protocols	
Appendix B	Locations Approved for Inspection *(to be updated annually)*	
	Table B-1	Storm Drain Outfalls 2023
	Table B-2	Interconnection Manholes 2023
	Table B-3	Combined Sewer Overflow Outfalls 2023
Appendix C	Table C-1	Recommendations for Locations with Standing Water
Appendix D	Outfall Screening Form (Blank)	
Appendix E	SDE Health and Safety Plan (Updated 2022)	

APPENDIX A

History of Revisions to Dry Weather Outfall Screening Protocols

APPENDIX A

History of Revisions to Dry Weather Outfall Screening Protocols

1/20/2023	Outfall 25MCSO005 separation was completed in the tributary area in the latter part of 2022 and it now conveys only stormwater. GIS updates have not been made yet.
12/28/2021	Outfall 06DSDO184 appears to be a cross-culvert only with no connected storm drain infrastructure. Keep on SDO list but screening not required.
3/23/2021	Add new storm drain outfall 26LSDO109.
2/18/2021	Add new storm drain outfall 12HSDO2. It was built by others but is now owned by BWSC.
11/12/2020	CWI5 Kickoff Updates: • Stantec review of EPA Methods 1600 and 1603 revised 2014 (prior protocols based on 2002 versions). Revisions made accordingly, including update of sample holding time to clarify that samples must be delivered to the lab within 6 hours from the time of sample collection and analyzed by the lab within 8 hours from the time of sample collection. Also updated sample preservation temperature from 4 ^{o}C to <10 ^{o}C. • Updated field instrument and test kit manufacturer/model, and calibration frequency • Updated the definition of dry weather to align with the MA Small MS4 permit (change from less than 0.1 inches of rain in the prior 48 hours, to less than 0.1 inches of rain in the prior 24 hours) • Additional information/guidance provided for locations that are consistently submerged or have standing water present during dry weather screening • Updated Outfall Screening Form • Add SDE Health and Safety Plan, including information about COVID safety measures
3/14/2019	21HSDO001 and 21HSDO002 were added as a result of the Muddy Brook Restoration Project.
2/21/2017	19MCSO083 has been abandoned and does not need to be screened anymore.
11/20/2015	Add two new South Street storm drain outfalls 13FSDO96 and 13FSDO97 to the list of outfalls to be screened during 2015 (Appendix B). Map added to Appendix C.
6/24/2015	Add new Hyde Park storm drain outfall 8FSDO1 to the list of outfalls to be screened during 2015 (Appendix B). This outfall was previously private; now confirmed owned by BWSC. Map added to Appendix C.
3/26/2015	Add new East Boston storm drain outfall 29PSDO005 to the list of outfalls to be screened during 2015 (Appendix B). Map added to Appendix C.
6/23/2014	Add two SDOs to the list of outfalls for 2014 dry weather screening: • 20GSDO164/2007640005 (previously thought to be owned by DCR) • 4FSDO1/406640010

5/9/2014	Add 24LSDO22/2412640005 to list of outfalls for dry weather 2014. Change designation of 26KSDO35, 26KSDO050 and 26JSDO049 to Marine.
4/11/2014	Remove 7HSDO287 from the list because during 2013 dry weather screening SDE determined that this outfall is no longer active; the outlet from the upstream catch basin has been bricked and flows are directed to 7HSDO285.
3/13/2014	Replaced 26KSDO245 with 26KSDO254. It was determined that 26KSDO245 belongs to DCR. Also replaced interconnection 21DMH055 with 20DNP140, an unmapped manhole near 42 Strathmore Road that has been sampled in the past.
2/19/2014	Updated Facility ID and Feature ID for 25MSDO007, 26JSDO049, and 21NCSO80. Updated Facility ID for 25MSDO006.
1/20/2014	Added outfall 24CSDO039 to replace interconnection 24CMH14, which was sampled in 2012 and 2013.
10/3/2013	Changed Interconnections 12LMH374 and 12LMH204 to Marine.
8/12/2013	Changed 26JCSO049, 26JSDO101, and 26KSDO050 from Fresh water to Marine.
5/20/2013	Six outfalls that were previously removed or "Pending Approval" were added back to the list of approved outfalls for sampling. These outfalls are the following: 12BSDO010, 12BSDO031, 12BSDO033, 07HSDO287, 28LSDO073, and 28LSDO077. SDE should attempt to screen these outfalls for the 2013 round of dry weather screening. If the outfall is inaccessible and there is no upstream manhole just observations should be noted on the screening form.
4/12/2013	Updated the facility ID for outfall 7CSDO006.
4/8/2013	Six outfalls that had not previously been located were investigated by BWSC and have been removed from the list for sampling. These outfalls are the following: 12BSDO031, 12BSDO033, 20LSDO081, 20LSDO083, 29PSDO015, and 21HSDO201. Three outfalls are still under investigation and have been moved to "Pending Approval". These outfalls are the following: 12BSDO010, 28LSDO073, and 28LSDO077.
3/25/2013	Stony Brook Outfall 21HCSO046 was added to the approved outfall list. Maps for three approved sampling locations were attached.
2/12/2013	SDE was authorized to begin the second (2013) round of dry weather screening on 1/14/2013. The tables in Appendix B have been revised to show approved SDOs, CSO outfalls and interconnections for 2013 dry weather screening. This includes changing interconnection 28MMH15 to 28IMH15. Despite the label being incorrect, the correct manhole was sampled in the past. On 2/12/2013 SDE was reminded to collect field duplicate samples in one container and then pour from the one container into two separate sample bottles. Prior to this field duplicates had been collected separately.
12/13/2012	Added approved 21HCSO046 and Interconnection 20DMH062 to the list in Appendix B. SDE is approved to take three samples at 21HCSO046 as discussed in the meeting on 12/5/12. SDE is also approved to return to Interconnection 20DMH055 and take a sample at a downstream manhole.
12/4/2012	Added SDO 24L057 to the list of approved outfalls. Added Map 9 (old map) and Map 10 (new map). The old map shows the outfall as existing, but new GIS shows the drainage being diverted to CSO 060. No plans confirmed this change, so SDE is approved to check to see if the outfall exists. MH 24L056 should be inspected for an outlet, and if that cannot be located MH24L056 should be sampled.

11/19/2012	Added one approved SDO to the list in Appendix B: 26L106.
10/23/2012	Added six approved CSOs to the list in Appendix B: BOS 081, BOS 082, BOS 083, BOS 084, BOS 085, and BOS 086.
10/2/2012	Added storm drain outfall 26L070 to list of approved SDOs in Appendix B.
9/24/2012	Added special maps for outfalls 08B122 and 26K050 to Appendix C.
9/17/2012	The Fort Point Channel Outfalls were approved for dry weather screening during the August 29th technical progress meeting. In addition, select CSOs and interconnections were approved for dry weather screening during a September 6th working meeting (to commence after dry weather screening of all storm drain outfalls is complete). Approved locations can be found in Appendix B. Other changes to Appendix B Tables: SDO 12L296 was moved to the interconnection list Six not approved SDOs were added to the bottom of the SDO list for reference The sampling method for E. coli was also changed from SM9213 to EPA 1603.
7/27/2012	Protocols were revised July 27, 2012 to put Fort Point Channel Outfalls on hold until further notice. See Appendix B.
7/25/2012	SDE is authorized to begin dry weather screening at storm drain outfalls only starting on Monday 7/30/2012

APPENDIX B

Locations Approved for Inspection

2023

Appendix B
Table B-1
2023 Outfall Screening and Sampling
List of Approved Storm Drain Outfalls - Dry Weather
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OUTFALL FACILITY ID	OUTFALL FEATURE ID	STREET LOCATION	DRAINAGE AREA	NEIGHBORHOOD	SIZE (INCHES)	TIDEGATES	RECEIVING WATER	Fresh/ Marine
1ESDO24	105640001	EASEMENT/LAKESIDE	01E024	HYDE PARK	15		SPRAGUE POND/NEPONSET RIVER	FRESH
1FSDO31	106640001	EASEMENT/MILLSTONE RD	01F031	HYDE PARK	48X24		NEPONSET RIVER	FRESH
2ESDO5	205640001	WEST MILTON STREET	02E086	HYDE PARK	24		UNAMED WETLANDS	FRESH
2FSDO85	206640005	LAWTON STREET	02F085	HYDE PARK	12		NEPONSET RIVER RESERVATION	FRESH
2FSDO93	206640003	EASEMENT/SIERRA RD	02F093	HYDE PARK	15		NEPONSET RIVER	FRESH
2FSDO120	206640002	EASEMENT/WOLCOTT CT/HYDE PARK AVE EXT	02F120	HYDE PARK	54		NEPONSET RIVER	FRESH
3ESDO185	305640003	NORTON ST	03E185	HYDE PARK	2-18		WETLANDS/NEPONSET RIVER	FRESH
3ESDO186	305640002	RIVER STREET	03E186	HYDE PARK	24		MILL POND/MOTHER BROOK	FRESH
3ESDO207	305640001	RIVER STREET	NA	HYDE PARK	UNKNOWN		MILL POND/MOTHER BROOK	FRESH
4ESDO64	405640002	ALVARDO AVE/RIVER ST BRIDGE	04E064	HYDE PARK	12		MILL POND/MOTHER BROOK	FRESH
4ESDO69	405640001	KNIGHT ST DAM	04E069	HYDE PARK	36		MOTHER BROOK	FRESH
4FSDO1	406640010	RESERVATION RD		HYDE PARK			MOTHER BROOK/NEPONSET RIVER	FRESH
4FSDO16	406640003	EASEMENT RIVER ST	04F016	HYDE PARK	30		MOTHER BROOK/NEPONSET RIVER	FRESH
4FSDO118	406640005	MASON STREET EXT.	04F118	HYDE PARK	18		NEPONSET RIVER	FRESH
4FSDO119	406640009	EASEMENT/HYDE PARK AVE/RESERVATION RD	04F119	HYDE PARK	24		NEPONSET RIVER	FRESH
4FSDO189	406640001	RESERVATION RD	04F189	HYDE PARK	36		MOTHER BROOK/NEPONSET RIVER	FRESH
4FSDO203	406640004	GLENWOOD AVE	04F203	HYDE PARK	28		NEPONSET RIVER	FRESH
4FSDO204	406640002	TRUMAN HWY/CHITTICK ST	04F204	HYDE PARK	36		NEPONSET RIVER	FRESH
5CSDO110	503640001	EASEMENT/PLEASANTDALE ST EXT	06C110	WEST ROXBURY	60		CHARLES RIVER	FRESH
5ESDO180	505640002	GEORGETOWN DRIVE	05E180	HYDE PARK	12		NONE SHOWN/CHARLES RIVER	FRESH
5ESDO181	505640006	GEORGETOWN DRIVE	05E181	HYDE PARK	12		NONE SHOWN/CHARLES RIVER	FRESH
5ESDO182	505640005	DEDHAM STREET	05E182	HYDE PARK	21		UNNAMED STREAM/CHARLES RIVER	FRESH
5ESDO183	505640007	GEORGETOWN PLACE/DEDHAM ST	05E183	HYDE PARK	12		UNNAMED STREAM	FRESH
5ESDO184	505640008	TURTLE POND PARKWAY	05E184	HYDE PARK	21		UNAMED WETLANDS	FRESH
5FSDO117	506640001	EASEMENT/TRUMAN HWY/WILLIAMS AVE	05F117	HYDE PARK	33		NEPONSET RIVER	FRESH
5FSDO244	506640008	HYDE PARK AVE BRIDGE	05F244	HYDE PARK	20		MOTHER BROOK/NEPONSET RIVER	FRESH
5FSDO245	506640007	HYDE PARK AVE	05F245	HYDE PARK	33		MOTHER BROOK/NEPONSET RIVER	FRESH
5FSDO253	506640006	EASEMENT/BUSINESS ST, NEAR BUSINESS TER	05F253	HYDE PARK	48X24		MOTHER BROOK/NEPONSET RIVER	FRESH
5FSDO254	506640004	DANA AVENUE	05F254	HYDE PARK	12		NEPONSET RIVER	FRESH
5GSDO112	507640002	EASEMENT/RR ROW/WATER ST EXT	05G112	HYDE PARK	30		NEPONSET RIVER	FRESH
5GSDO115	507640006	FAIRMOUNT AVE BRIDGE (NORTH BANK)	05G115	HYDE PARK	24		NEPONSET RIVER	FRESH
5GSDO116	507640007	FAIRMOUNT AVE BRIDGE (SOUTH BANK)	05G116	HYDE PARK	24		NEPONSET RIVER	FRESH
5GSDO116A	507640005	WARREN AVENUE	05G116A	HYDE PARK	24		NEPONSET RIVER	FRESH
6DSDO57	604640001	CEDAR CREST CIRCLE	06D057	WEST ROXBURY	21		CHARLES RIVER	FRESH
6DSDO83	604640007	MARGARETTA DRIVE	06D084	WEST ROXBURY	15		WETLANDS/CHARLES RIVER	FRESH
6DSDO84	604640008	EASEMENT/MARGARETTA DRIVE	06D083	WEST ROXBURY	12		WETLANDS/CHARLES RIVER	FRESH
6DSDO85	604640006	GEORGETOWN DRIVE	06D085	WEST ROXBURY	12		WETLANDS/CHARLES RIVER	FRESH
6DSDO86	604640005	GEORGETOWN DRIVE	06D086	WEST ROXBURY	10		WETLANDS/CHARLES RIVER	FRESH
6DSDO91	604640003	GEORGETOWN DRIVE	06D091	WEST ROXBURY	10		WETLANDS/CHARLES RIVER	FRESH
6DSDO184	604640002	GEORGETOWN DRIVE	06D184	WEST ROXBURY	18		WETLANDS/CHARLES RIVER	FRESH

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6DSDO187	604640004	EASEMENT/GROVE ST	06D187	WEST ROXBURY	36		BROOK GROVE ST CEMETERY	FRESH
6FSDO233	606640001	MOUNT ASH ROAD	05F253	HYDE PARK	UNKNOWN		WETLAND - STONY BROOK RESERVATION	FRESH
6GSDO108	607640005	EASEMENT/WEST OF WOOD AVE EXT	06G108	HYDE PARK	69		NEPONSET RIVER	FRESH
6GSDO109	607640001	RIVER TER EXT, NEAR ROSA ST	06G109	HYDE PARK	48		NEPONSET RIVER	FRESH
6GSDO110	607640002	EASEMENT/WEST STREET EXT	06G110	HYDE PARK	30		NEPONSET RIVER	FRESH
6GSDO111	607640003	EASEMENT/VOSE ST EXT., TRUMAN HWY	06G111	HYDE PARK	24		NEPONSET RIVER	FRESH
6GSDO165	607640006	TRUMAN HWT/METROPOLITAN AVE	06G165	HYDE PARK	10		NEPONSET RIVER	FRESH
6GSDO166	607640004	ABOUT 30' FROM GUARDRAIL NORTH SIDE OF TRUMAN HWY NEAR	06G166	HYDE PARK	36X36		NEPONSET RIVER	FRESH
6HSDO106	608640004	OSCEOLA STREET	06H106	HYDE PARK	24		NEPONSET RIVER	FRESH
6HSDO107	608640005	EASEMENT/BELNEL RD	06H107	HYDE PARK	24		NEPONSET RIVER	FRESH
7CSDO006	703640001	EASEMENT/VFW PARKWAY/BELLE AVE	07C006	WEST ROXBURY	126X126		CHARLES RIVER	FRESH
7HSDO105	708640003	EASEMENT/EDGEWATER/S RIVER ST	07H105	NEPONSET/MATTAPAN	102X72		NEPONSET RIVER	FRESH
7HSDO285	708640001	BLUE HILL AVE	07H285	NEPONSET/MATTAPAN	106X63		NEPONSET RIVER	FRESH
7HSDO346	708640009	EDGEWATER DRIVE/HOLMFIELD AVE	07H346	HYDE PARK	18		NEPONSET RIVER	FRESH
7HSDO347	708640008	EDGEWATER DRIVE/BURMAH ROAD	07H347	NEPONSET/MATTAPAN	21		NEPONSET RIVER	FRESH
7HSDO348	708640007	EDGEWATER DRIVE/TOPALIAN STREET	07H348	NEPONSET/MATTAPAN	24		NEPONSET RIVER	FRESH
8BSDO122	802640001	EASEMENT/NORTH OF SPRING ST.	08B122	WEST ROXBURY	30		CHARLES RIVER	FRESH
8BSDO126	802640003	SPRING STREET EXTENDED	08B126	WEST ROXBURY	30		CHARLES RIVER	FRESH
8CSDO25	803640004	WEDGEMERE ROAD	08C025/026	WEST ROXBURY	two 24		NONE SHOWN	FRESH
8CSDO26	803640005	WEDGEMERE ROAD	08C025/026	WEST ROXBURY	two 24		NONE SHOWN	FRESH
8ESDO31	805640002	TURTLE POND PARKWAY	08E031	WEST ROXBURY	30		TURTLE POND	FRESH
8ESDO33	805640003	TURTLE POND PARKWAY	08E033				TURTLE POND	FRESH
8ESDO35	805640001	WASHINGTON STREET	08E035	WEST ROXBURY	15		TURTLE POND	FRESH
8FSDO1	806640001	SHERRIN STREET	NA	HYDE PARK	24		NONE SHOWN	FRESH
8ISDO153	809640001	DUXBURY ROAD	08I153	NEPONSET/MATTAPAN	15		NEPONSET RIVER	FRESH
8ISDO154	809640005	EASEMENT/RIVER ST/GLADESIDE AVE	08I154	NEPONSET/MATTAPAN	18		NEPONSET RIVER	FRESH
8ISDO155	809640002	EASEMENT/RIVER ST/MAMELON CIR	08I155	NEPONSET/MATTAPAN	24		NEPONSET RIVER	FRESH
8ISDO156	809640003	EASEMENT/RIVER ST/MAMELON CIR	08I156	NEPONSET/MATTAPAN	24		NEPONSET RIVER	FRESH
8ISDO158	809640006	EASEMENT/RIVER ST/FREMONT ST	08I158	NEPONSET/MATTAPAN	18		NEPONSET RIVER	FRESH
8ISDO207	809640008	MEADOWBANK AVE EXT	08I207	NEPONSET/MATTAPAN	15		NEPONSET RIVER	FRESH
8ISDO209	809640004	MEADOWBANK AVE EXT	08I209	NEPONSET/MATTAPAN	12		NEPONSET RIVER	FRESH
8JSDO41	810640003	RIVER STREET	08J036/041	DORCHESTER	18		NEPONSET RIVER	FRESH
8JSDO50	810640004	DESMOND RD	08J050/049	DORCHESTER	2-18&24		NEPONSET RIVER	FRESH
8JSDO102	810640001	ADAMS STREET	08J102	DORCHESTER	15X15		NEPONSET RIVER	MARINE
8JSDO103	810640002	EASEMENT/CENTRAL AVE BRIDGE	08J103	DORCHESTER	30		NEPONSET RIVER	FRESH
8KSDO49	811640001	BEARSE AVENUE	08K049	DORCHESTER	12		NEPONSET RIVER	MARINE
9BSDO49	902640001	EASEMENT/RIVERMOOR ST	09B049	WEST ROXBURY	30		COW ISLAND POND/CHARLES RIVER	FRESH
9ESDO229	905640001	GRANDVIEW STREET	09E229	WEST ROXBURY	12		NONE SHOWN	FRESH
9ESDO243	905640002	BLUE LEDGE TR/EASEMENT	09E243	WEST ROXBURY	30		UNNAMED STREAM	FRESH
9KSDO16	911640003	EASEMENT/BEARSE AVE EXT	09K016	DORCHESTER	15		NEPONSET RIVER	MARINE

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9KSDO100	911640001	EASEMENT/MELLISH RD	09K100	DORCHESTER	34X24		NEPONSET RIVER	MARINE
9KSDO101	911640002	EASEMENT/HUNTOON ST EXT	09K101	DORCHESTER	24		NEPONSET RIVER	MARINE
9LSDO095	912640001	GRANITE AVENUE	09L095	DORCHESTER	36X48		NEPONSET RIVER	MARINE
10BSDO15	1002640004	EASEMENT/CHARLES RIVER ROAD	10B015	WEST ROXBURY	21		COW ISLAND POND/CHARLES RIVER	FRESH
10LSDO094	1012640001	EASEMENT/GALLIVAN BLVD	10L094	DORCHESTER	74X93		NEPONSET RIVER VIA DAVENPORT BROOK	MARINE
10LSDO096	1012640002	HILLTOP & LEXONDALE STS	10L096	DORCHESTER	36		NEPONSET RIVER	MARINE
11BSDO123	1102640003	EASEMENT/EAST OF BAKER ST EXT.	11B123	WEST ROXBURY	72		BROOK FARM BROOK/CHARLES RIVER	FRESH
11GSDO344 (	1107640002 (	CULVERT UNDER WALK HILL STREET	11G344	ROSLINDALE	24		CANTERBURY BROOK	FRESH
11GSDO344 (	1107640002 (	CULVERT UNDER WALK HILL STREET	11G344	ROSLINDALE	18		CANTERBURY BROOK	FRESH
11ISDO577	1109640001	HARVARD ST	11I577	NEPONSET/MATTAPAN	102X102		CANTERBURY BROOK	FRESH
11MSDO093	1113640001	NEPONSET AVE AT NW END OF NEPONSET AVE BRIDGE	11M093	DORCHESTER	48		NEPONSET RIVER	MARINE
12BSDO10	1202640001	BAKER STREET	12B010	WEST ROXBURY	15		BROOK FARM BROOK	FRESH
12BSDO14	1202640003	BAKER STREET	12B014	WEST ROXBURY	12		BROOK FARM BROOK	FRESH
12BSDO031	1202640005	EASEMENT/BAKER STREET	12B031	WEST ROXBURY	18		BROOK FARM BROOK	FRESH
12BSDO033	1202640002	EASEMENT/BAKER STREET	12B033	WEST ROXBURY	18		BROOK FARM BROOK	FRESH
12BSDO124	1202640004	EASEMENT/LAGRANGE STREET	12B124	WEST ROXBURY	120		BROOK FARM BROOK	FRESH
12ESDO418	1205640001	EASEMENT/WALTER STREET (renumbered from 12F322)	12F418	ROSLINDALE	18		NONE SHOWN	FRESH
12FSDO305	1206660240	EASEMENT/ARBOROUGH ROAD	12F305	ROSLINDALE	12		UNAMED WETLANDS	FRESH
12HSDO1 (12	1208640006 (	MORTON STREET	12H085	ROSLINDALE	15		CANTERBURY BROOK	FRESH
12HSDO1 (12	1208640006 (	MORTON STREET	12H087	ROSLINDALE	15		CANTERBURY BROOK	FRESH
12HSDO2	1208640007	CANTERBURY STREET	12H092	WEST ROXBURY	24		CANTERBURY BROOK	FRESH
12HSDO92	1208640001	AMERICAN LEGION HIGHWAY	12H092	WEST ROXBURY	24		CANTERBURY BROOK	FRESH
12LSDO092	1212460001	PINE NECK CREEK/TENEAN ST WEST OF LAWLEY	12L092	DORCHESTER	72	2 / 12L294	NEPONSET RIVER	MARINE
12MSDO091	1213640001	ERICSSON/WALNUT ST	12M091	NEPONSET/MATTAPAN	36		NEPONSET RIVER	MARINE
13BSDO11	1302640001	LAGRANGE STREET	13B011	WEST ROXBURY	12		UNNAMED STREAM	FRESH
13DSDO077	1304640003	WEST ROXBURY PKY/VFW PKY	13D077/078	WEST ROXBURY	60		BUSSEY BROOK	FRESH
13DSDO078	1304640004	WEST ROXBURY PKY/VFW PKY	13D077/078	WEST ROXBURY	60		BUSSEY BROOK	FRESH
13ESDO174	1305640002	EASEMENT/VFW PARKWAY	13E174	ROSLINDALE	24		BUSSEY BROOK	FRESH
13ESDO175	1305640003	EASEMENT/VFW PKY	13E175	ROSLINDALE	108X86		BUSSEY BROOK	FRESH
13ESDO176	1305640004	EASEMENT/WELD ST	13E176	ROSLINDALE	15		NONE SHOWN	FRESH
13FSDO11	1306640004	ALLANDALE STREET	13F011	ROSLINDALE	24		BUSSEY BROOK	FRESH
13FSDO12	1306640005	WALTER STREET	13F093	ROSLINDALE	15		BUSSEY BROOK	FRESH
13FSDO95	1306640001	EASEMENT/BUSSEY STREET	13F095	ROSLINDALE	12		BUSSEY BROOK	FRESH
13FSDO96	1306640006	SOUTH STREET		ROSLINDALE			MARSH	FRESH
13FSDO97	1306640007	SOUTH STREET		ROSLINDALE			MARSH	FRESH
13LSDO090	1312640012	VICTORY RD. 200 FT SOUTH	13L090	DORCHESTER	144X180		DORCHESTER BAY	MARINE
14CSDO9	1403640001	EASEMENT/WESTGATE RD	14C009	WEST ROXBURY	36		UNNAMED WETLANDS	FRESH
15FSDO288	1506640002	ARNOLD ARBORETUM/MURRAY CIRCLE	15F288	JAMAICA PLAIN	54		GOLDSMITH BROOK	FRESH
15LSDO088	1512640010	FREEPORT WAY EXTENDED	15L088/089	DORCHESTER	2-78"		DORCHESTER BAY	MARINE
15LSDO089	1512640011	FOX POINT RD EXTENDED	15L088/089	DORCHESTER	2-90X82"		DORCHESTER BAY	MARINE

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16LSDO097	1612640001	EASEMENT/OFF SAVIN HILL AVE	16L097	DORCHESTER	24		PATTEN'S COVE	MARINE
16LSDO122	1612640002	MORRISSEY BLVD	UNMAPPED	DORCHESTER	two 108X96		DORCHESTER BAY	MARINE
17FSDO12	1706640001	FRANCIS PARKMAN DRIVE	17F012	JAMAICA PLAIN	15		JAMAICA POND	FRESH
17MSDO33	1713640001	HARBOR POINT PARK (RELOCATED MT VERNON ST DRAIN)	17M033	DORCHESTER	72		OLD HARBOR	MARINE
18GSDO233	1807640002	X-COUNTRY BTN WILLOW POND RD AND JAMAICAWAY	18G233	JAMAICA PLAIN	18		MUDDY RIVER-LEVERETT POND	FRESH
19GSDO043	1907640001	HUNTINGTON AVE	19G043	ROXBURY/MISSION HILL	45X45		MUDDY RIVER	FRESH
19GSDO194	1907640002	SOUTH HUNTINGTON AVE	19G194	ROXBURY/MISSION HILL	24		MUDDY RIVER	FRESH
19GSDO199	1907640003	JAMAICA WAY	19G199	ROXBURY/MISSION HILL	10		MUDDY RIVER	FRESH
20GSDO161	2007640002	EASEMENT/BROOKLINE AVE	20G161	ROXBURY/MISSION HILL	36		MUDDY RIVER	FRESH
20GSDO163	2007640001	EASEMENT/RIVERWAY	20G163	ROXBURY/MISSION HILL	20		MUDDY RIVER	FRESH
20GSDO164	2007640005	BROOKLINE AVE		ROXBURY/MISSION HILL			MUDDY RIVER	FRESH
21CSDO212	2103640001	EASEMENT/LAKE SHORE ROAD	21C212	ALLSTON/BRIGHTON	30		CHANDLER POND	FRESH
21HSDO001	2108640009	BROOKLINE AVE AT RIVERWAY		BOSTON PROPER	45		Charles River; Muddy River	Fresh
21HSDO002	2108640010	BROOKLINE AVE AT RIVERWAY		BOSTON PROPER	51 x 51		Charles River; Muddy River	Fresh
21HSDO045	2108640003	PARK DRIVE	21H045	BOSTON PROPER			MUDDY RIVER	FRESH
21HSDO047 (	2108640006 (	PALACE ROAD EXT	21H047	BOSTON PROPER	24		MUDDY RIVER	FRESH
21HSDO048	2108640004	EASEMENT/FENWAY/EVANS WAY	21H048	BOSTON PROPER	15		MUDDY RIVER	FRESH
21KSDO069	2111640007	125' NORTH OF W.FOURTH STREET (RELOCATED BY CA/T)	21K069	BOSTON PROPER	48		FORT POINT CHANNEL	MARINE
21MSDO010	2113640007	D STREET EXTENDED	21M010	SOUTH BOSTON	30		RESERVED CHANNEL	MARINE
21MSDO50	2113640008	SUMMER STREET	21M050	SOUTH BOSTON	72	1/21M25	RESERVED CHANNEL	MARINE
22CSDO384	2203640001	EASEMENT/LAKE SHORE RD	22C384	ALLSTON/BRIGHTON	36		CHANDLER POND	FRESH
22LSDO580	2212640002	NECCO STREET EXTENDED	22L580	SOUTH BOSTON	54		FORT POINT CHANNEL	MARINE
23GSDO132	2307640002	EASEMENT/MASS TURNPIKE/WEST OF BU BRIDGE	23G132	ALLSTON/BRIGHTON	60		CHARLES RIVER	FRESH
23HSDO040	2308640004	RALEIGH STREET EXT	23H040	BOSTON PROPER	24		CHARLES RIVER	FRESH
23HSDO042	2308640002	DEERFIELD ST	23H042	BOSTON PROPER	116X120		CHARLES RIVER	FRESH
23LSDO15	2312640010	NORTHERN AVE	23L015	SOUTH BOSTON	24		BOSTON INNER HARBOR	MARINE
23LSDO074	2312640006	SUMMER ST BRIDGE	23L074	SOUTH BOSTON	15		FORT POINT CHANNEL	MARINE
23LSDO075	2312640004	CONGRESS ST BRIDGE	23L075	SOUTH BOSTON	54		FORT POINT CHANNEL	MARINE
23LSDO164	2312640013	CONGRESS ST BRIDGE	23L164	BOSTON PROPER	48	1 / 23L164 IN CHANNEL W/	FORT POINT CHANNEL	MARINE
23LSDO195	2312640007	NORTHERN AVE	23L195	SOUTH BOSTON	36		BOSTON INNER HARBOR	MARINE
23LSDO196	2312640002	NEW NORTHERN AVE BRIDGE	23L196	SOUTH BOSTON	36		FORT POINT CHANNEL	MARINE
23LSDO202	2312640008	NORTHERN AVE	23L202	SOUTH BOSTON	36		BOSTON INNER HARBOR	MARINE
24CSDO039	2403640003	MASSACHUSETTS TURNPIKE	24CMH014	BRIGHTON			CHARLES RIVER	FRESH
24CSDO174	2403640002	EASEMENT/NEWTON STREET	24C174	ALLSTON/BRIGHTON	24		CHARLES RIVER	FRESH
24DSDO032	2404640004	N OF BEACON ST, ABOUT 800' E OF PARSONS ST	24D032	ALLSTON/BRIGHTON	119X130	1 / 24D032-18	CHARLES RIVER	FRESH
24DSDO150	2404640003	SOLDIERS FIELD PLACE	24D150	ALLSTON/BRIGHTON	36		CHARLES RIVER	FRESH
24GSDO034	2407640003	SOLDIERS FIELD ROAD, S OF CAMBRDIGE ST	24G034	ALLSTON/BRIGHTON	36	1 / 24G034-1	CHARLES RIVER	FRESH
24GSDO035	2407640002	SOLDIERS FIELD ROAD/BABCOCK ST	24G035	ALLSTON/BRIGHTON	90X84		CHARLES RIVER	FRESH
24LSDO22	2412640005	COURTHOUSE WAY		BOSTON PROPER			BOSTON HARBOR	MARINE
24LSDO233	2412640004	ROWE'S WHARF/ATLANTIC AVE	24L233	BOSTON PROPER	42		BOSTON HARBOR	MARINE

Appendix B
Table B-1
2023 Outfall Screening and Sampling
List of Approved Storm Drain Outfalls - Dry Weather
Updated 1/20/2023

OUTFALL FACILITY ID	OUTFALL FEATURE ID	STREET LOCATION	DRAINAGE AREA	NEIGHBORHOOD	SIZE (INCHES)	TIDEGATES	RECEIVING WATER	Fresh/ Marine
25DSDO040	2504640001	ABOUT 390' N OF INTERSECTION OF SOLDIERS FIELD RD & WESTERI	25D040	ALLSTON/BRIGHTON	36		CHARLES RIVER	FRESH
25ESDO037	2505640001	EASEMENT/TELFORD ST	25E037	ALLSTON/BRIGHTON	66		CHARLES RIVER	FRESH
25GSDO041	2507640001	SOLDIERS FIELD RD/NORTH OF WESTERN AVE BRIDGE	25G041	ALLSTON/BRIGHTON	24		CHARLES RIVER	FRESH
25LSDO058	2512640003	CHRISTOPHER COLUMBUS PARK-WATERFRONT	25L058	BOSTON PROPER	84		BOSTON INNER HARBOR	MARINE
25LSDO144	2512640001	CLARK STREET	25L144	BOSTON PROPER	12		BOSTON INNER HARBOR	MARINE
25MCSO005	2513640001	Porzio Park II	25MCSO005DR	EAST BOSTON	24" x 27"		Inner Harbor- Lower	Marine
25MSDO006	2513640002	MARGINAL ST	UNMAPPED	EAST BOSTON			BOSTON HARBOR	MARINE
25MSDO007	2513640005	MARGINAL ST	UNMAPPED	EAST BOSTON			BOSTON HARBOR	MARINE
26FSDO038	2606640001	HARVARD ST EXT	26F038	ALLSTON/BRIGHTON	36		CHARLES RIVER	FRESH
26GSDO01	2607640001	SOLDIERS FIELD ROAD/EAST OF HARVARD UNIVERSITY	26G001	ALLSTON/BRIGHTON	36		CHARLES RIVER	FRESH
26JSDO049	2610640008	NASHUA ST	UNMAPPED	BOSTON PROPER	60		CHARLES RIVER	MARINE
26JSDO052	2610640003	MONSIGNOR O'BRIEN HWY	26J052	BOSTON PROPER	12		CHARLES RIVER	FRESH
26JSDO101	2610640007	LEVERETT CIRCLE	26J055	BOSTON PROPER	36		CHARLES RIVER	MARINE
26KSDO35	2611640019	BEVERLY STREET NEAR WARREN BRIDGE	26K035	BOSTON PROPER	48x72		CHARLES RIVER	MARINE
26KSDO050	2611640023	NASHUA ST		BOSTON PROPER	36		CHARLES RIVER	MARINE
26KCSO052	2611640009	COMMERCIAL STREET AT CHARTER ST		BOSTON PROPER	16x24?		CHARLES RIVER	MARINE
26KSDO099	2611640003	CHELSEA ST EXT (JOINER ST)	26K099	CHARLESTOWN	84		CHARLES RIVER	MARINE
26KSDO254	2611640005	EASEMENT		CHARLESTOWN	36		CHARLES RIVER	MARINE
26LSDO70	2612640007	HANOVER STREET EXT	26L070	BOSTON PROPER	36		BOSTON INNER HARBOR	MARINE
26LSDO084	2612640006	LEWIS STREET	26L084	EAST BOSTON	18		BOSTON INNER HARBOR	MARINE
26LSDO106	2612640009	NEAR BATTERY WHARF	26L055	BOSTON PROPER	24x24		BOSTON INNER HARBOR	MARINE
26LSDO109	2612640012	CLIPPER SHIP LANE	27LCSO009	EAST BOSTON			BOSTON INNER HARBOR	MARINE
27JSDO001	2710640005	EASEMENT/INTERSTATE 93	27J001	CHARLESTOWN	72		MILLERS RIVER	MARINE
27JSDO044	2710640001	PRISON POINT BRIDGE	27J044	CHARLESTOWN	15		MILLERS RIVER	MARINE
27JSDO096	2710640004	EASEMENT/INTERSTATE 93	27J096	CHARLESTOWN	54		MILLERS RIVER	MARINE
27LSDO020/2	2712640003/	PIER 4 EASEMENT - NAVY YARD	27L020/22	CHARLESTOWN	20&24	1 / 27K020-1	BOSTON INNER HARBOR	MARINE
28KSDO010	2811640002	OLD LANDING WAY EXT	28K010	CHARLESTOWN	42	1 / 28K058	LITTLE MYSTIC CHANNEL	MARINE
28KSDO61	2811640001	EASEMENT/MEDFORD ST	28K061	CHARLESTOWN	42	1 / 28K062	LITTLE MYSTIC CHANNEL	MARINE
28KSDO386	2811640003	EASEMENT/TERMINAL ST	28K386	CHARLESTOWN	30	1 / 28K385	LITTLE MYSTIC CHANNEL	MARINE
28LSDO073	2812640001	EASEMENT/4TH ST - NAVY YARD	28L073	CHARLESTOWN	6		LITTLE MYSTIC CHANNEL	MARINE
28LSDO074/2	2812640002/	16TH ST/4TH AVE - NAVY YARD	28L074/076	CHARLESTOWN	three 30		LITTLE MYSTIC CHANNEL	MARINE
28LSDO077	2812640005	EASEMENT/4TH ST - NAVY YARD	28L077	CHARLESTOWN	10		LITTLE MYSTIC CHANNEL	MARINE
28NSDO156	2814640001	COLERIDGE ST EXT	28N156	EAST BOSTON	12		BOSTON HARBOR	MARINE
28NSDO207	2814640003	MOORE ST	28N207	EAST BOSTON	54X57		BOSTON HARBOR	MARINE
28OSDO25	2815640001	COLERIDGE/WADSWORTH ST. EXT	28O025	EAST BOSTON	30		BOSTON HARBOR	MARINE
28PSDO1	2816640001	EASEMENT/NANCIA STREET	28P001	EAST BOSTON	12		BOSTON HARBOR NEAR CONSTITUTION BE	MARINE
29JSDO029	2910640003	ALFORD STREET/RYAN PLGD. EXT	29J029	CHARLESTOWN	15		MYSTIC RIVER	MARINE
29JSDO129	2910640002	ALFORD STREET	29J129	CHARLESTOWN	15		MYSTIC RIVER	MARINE
29JSDO212	2910640005	EASEMENT/MEDFORD ST(NEXT TO CSO 017)	29J212	CHARLESTOWN	72		MYSTIC RIVER	MARINE
29MSDO049	2913640004	CONDOR STREET	29M049	EAST BOSTON	48		CHELSEA RIVER	MARINE

Appendix B
Table B-1
2023 Outfall Screening and Sampling
List of Approved Storm Drain Outfalls - Dry Weather
Updated 1/20/2023

OUTFALL FACILITY ID	OUTFALL FEATURE ID	STREET LOCATION	DRAINAGE AREA	NEIGHBORHOOD	SIZE (INCHES)	TIDEGATES	RECEIVING WATER	Fresh/ Marine
29NSDO015	2914640001	CHELSEA STREET	29N015	EAST BOSTON	42X44.5	1 / 015-1	CHELSEA RIVER	MARINE
29NSDO135	2914640003	ADDISON ST	29N135	EAST BOSTON	30X30		CHELSEA RIVER	MARINE
29OSDO001	2915640001	BENNINGTON ST (CONSTITUTION BEACH)	29O001	EAST BOSTON	66	1 / 29O062	BOSTON HARBOR NEAR CONSTITUTION BE	MARINE
29PSDO005	2916640008	BELLE ISLE MARSH (SARATOGA ST)		EAST BOSTON			BELLE ISLE INLET	MARINE
29PSDO44	2916640002	SHAWSHEEN ST	29P044	EAST BOSTON	12		BOSTON HARBOR	MARINE
30JSDO6	3010640001	EASEMENT/ALFORD ST	30J006	CHARLESTOWN	18		MYSTIC RIVER	MARINE
30JSDO19	3010640002	ALFORD ST	30J019	CHARLESTOWN	15		MYSTIC RIVER	MARINE
30JSDO30	3010640003	EASEMENT/ARLINGTON AVE	30J030	CHARLESTOWN	42	1/NOT MAPPED	MYSTIC RIVER	MARINE
30PSDO62	3016640002	PALERMO AVE EXT	30P062	EAST BOSTON	12		WETLANDS	MARINE
30PSDO107	3016640001	WALDEMAR AVENUE	30P107	EAST BOSTON	15		WETLANDS	MARINE
31OSDO4	3115640001	EASEMENT/WALDEMAR AVE	31O004	EAST BOSTON	15		CHELSEA RIVER	MARINE
31PSDO84	3116640001	EASEMENT/BENNINGTON ST	31P084	EAST BOSTON	30		BELLE ISLE INLET, REVERE	MARINE

Appendix B
Table B-2
2023 Outfall Screening and Sampling
List of Approved Interconnections - Dry Weather

Manhole 6 Digit ID	Manhole Facility ID	Manhole Feature ID	Street Location	Drainage Area	Outfall No.	Neighborhood	Size (inches) of largest pipe inlet	Receiving Water	Fresh/ Marine	Commission Comments
02F120	2FMH120	206660110	Neponset Valley Parkway		DCR 02F099	Hyde Park	15	DCR Drain to Neponset	Fresh	Discharges to DCR Outfall 02F099
03F056	3FMH56	306660073	Wakefield Avenue		DCR 03F159	Hyde Park	15	DCR Drain to Neponset	Fresh	Discharges to DCR Outfall 03F159. This drain actually connects to outfall 3F159 which is a DCR drain.
04F090	4FMH90	406660171	Faraday Street	04F191	DCR 03F162	Hyde Park	21	DCR Drain to Neponset	Fresh	Discharges to DCR Outfall 03F162. The drain from Faraday Street connects to a DCR owned drain on Truman Highway, which runs south and connects to a DCR drain running across the tennis courts to outfall 03F162.
06C117	6CMH117	603660086	Washington Street near Meshaka Street			West Roxbury	12	Dedham Drains	Fresh	Drains to Dedham
06D097	6DMH97	604660108	Easement/Edgemere Road	06D097		West Roxbury	51	Dedham Drains	Fresh	Drains to Dedham
11B049	11BMH49	1102660014	VFW Pkwy @ Glenham Street		DCR 11B028	West Roxbury	15	DCR Drain to Charles	Fresh	Discharges to DCR Outfall 11B028
12L304	12LMH304	1212660005	Tenean Street	13L137		Dorchester	30	DCR Drain to Dorchester Bay	Marine	Discharges to DCR drain
12L374	12LMH374	1212660256	Conley Street	12L296	MDOT 12L296	Dorchester	36	DOT Drain to Dorchester Bay	Marine	Discharges to MDOT Outfall 12L296
14E036	14EMH36	1405660029	Payson Road @ Hackensack Road			West Roxbury	12	Brookline Drains	Fresh	Drains to Brookline
20D019	20DMH19	2004660109	Prendergast Ave (BC/Chestnut Hill)	20DMH019		Brighton	77 x 84	Brookline Drains	Fresh	Drains to Brookline
20D062	20DMH62	2004660026	Kilsyth at Englewood	20DMH055		Brighton	12	Brookline Drains	Fresh	Drains to Brookline
NA	20DNP140		42 Strathmore Road	21DMH055		Brighton	36	Brookline Drains to Village Brook	Fresh	Drains to Brookline. Near 42 Strathmore Rd; replaced 21DMH055
21D319	21DMH319	2104660307	Village Brook-Kilsyth	21DMH319		Brighton	20x30	Brookline Drains to Village Brook	Fresh	Drains to Brookline
21E064	21EMH64	2105660048	Tannery Brook	21EMH064		Brighton	24	Brookline Drains to Tannery Brook	Fresh	Drains to Brookline
21E086	21EMH86	2105660076	Village Brook-Cummings	21EMH086		Brighton	15	Brookline Drains to Village Brook	Fresh	Drains to Brookline
23B089	23BMH89	2302660010	Hunnewell Avenue	23BMH089		Brighton	18	Newton Drains	Fresh	Drains to Newton
23H081	23HMH81	2308660073	Beacon Street		23I019	Back Bay	12	DCR Drain to Muddy River	Fresh	Drains to Muddy River DCR outfall
28I015	28IMH15	2809660012	Roland Street			Charlestown	12	Somerville Drains	Fresh	Drains to Somerville

Appendix B
Table B-3
2023 Outfall Screening and Sampling
List of Approved Combined Sewer Overflow (CSO) Outfalls - Dry Weather

Outfall Facility ID	Outfall Feature ID	BOS ID	Street Location	Neighborhood	Size (inches)	Receiving Water	Class	Fresh/ Marine
18LCSO086	1.813E+09	BOS 086	Carson Beach	South Boston		Dorchester Bay-North	SB	Marine
19LCSO084	1.913E+09	BOS 084	Carson Beach	South Boston		Dorchester Bay-North	SB	Marine
19LCSO085	1.913E+09	BOS 085	Carson Beach	South Boston		Dorchester Bay-North	SB	Marine
19MCSO082	1.914E+09	BOS 082	M Street Beach	South Boston		Dorchester Bay-North	SB	Marine
19NCSO081	1.915E+09	BOS 081	Farragut Rd at Columbia Rd	South Boston		Dorchester Bay-North	SB	Marine
21KCSO070	2.112E+09	BOS 070	West Fourth St	South Boston	240" x 186	Inner Harbor-Fort Point Channel	SB-CSO	Marine
21LCSO076	2.113E+09	BOS 076	Pappas Way	South Boston	72"	Inner Harbor- Reserve Channel	SB-CSO	Marine
21MCSO078	2.114E+09	BOS 078	East 1st St at I St	South Boston	36" x 42"	Inner Harbor- Reserve Channel	SB-CSO	Marine
21MCSO079	2.114E+09	BOS 079	Summer St Bridge	South Boston	60"	Inner Harbor- Reserve Channel	SB-CSO	Marine
21NCSO80	2.115E+09	BOS 080	Conley Marine Terminal	South Boston	72" x 72"	Inner Harbor- Reserve Channel	SB-CSO	Marine
22KCSO065	2.212E+09	BOS 065	Dorchester Ave	Central	81" x 81"	Inner Harbor-Fort Point Channel	SB-CSO	Marine
22KCSO068	2.212E+09	BOS 068	Fort Point Channel North of Broadway Bridge	Central	72"	Inner Harbor-Fort Point Channel	SB-CSO	Marine
22KCSO072	2.212E+09	BOS 072	Dorchester Ave	South Boston	60"	Inner Harbor-Fort Point Channel	SB-CSO	Marine
22LCSO073	2.213E+09	BOS 073	Binford Street Park	South Boston	72"	Inner Harbor-Fort Point Channel	SB-CSO	Marine
23LCSO062	2.313E+09	BOS 062	New Northern Ave	Central	72" x 54"	Inner Harbor-Fort Point Channel	SB-CSO	Marine
23LCSO064	2.313E+09	BOS 064	Summer St	Central	60"	Inner Harbor-Fort Point Channel	SB-CSO	Marine
24LCSO060	2.413E+09	BOS 060	Aquarium	Central	72" x 72"	Inner Harbor-Upper	SB-CSO	Marine
24NCSO003	2.415E+09	BOS 003	Harborside Dr	East Boston	144" x 120	Inner Harbor- Lower	SB-CSO	Marine
25LCSO057	2.513E+09	BOS 057	Eastern Ave	Central	96"	Inner Harbor-Upper	SB-CSO	Marine
25NCSO004	2.515E+09	BOS 004	Tomahawk Dr	East Boston	51"	Inner Harbor- Lower	SB-CSO	Marine
26LCSO009	2.613E+09	BOS 009	LoPresti Park	East Boston	36"	Inner Harbor-Upper	SB-CSO	Marine
27LCSO010	2.713E+09	BOS 010	Border St at Decatur St	East Boston	60"	Inner Harbor-Upper	B-CSO	Marine
28LCSO012	2.813E+09	BOS 012	Umana Schoolyard	East Boston	54" x 36"	Inner Harbor-Upper	SB-CSO	Marine
28LCSO019	2.813E+09	BOS 019	Mystic River Bridge	Charlestown	36" x 40"	Inner Harbor-Upper	SB-CSO	Marine
29JCSO017	2.911E+09	BOS 017	Schraffts Center Harborwalk	Charlestown	63"	Inner Harbor-Mystic/Chelsea	SB-CSO	Marine
29MCSO013	2.914E+09	BOS 013	Andrew P McArdle Bridge	East Boston	24"	Inner Harbor-Mystic/Chelsea	SB-CSO	Marine
29NCSO014	2.915E+09	BOS 014	E Eagle St	East Boston	48" x 60"	Inner Harbor-Mystic/Chelsea	SB-CSO	Marine
21HCSO046-1	2.109E+09	BOS 046	Fens Gate House (drains stony brook); Three locations approved include 15GMH290, 19HMH222, and 23IMH1	Fenway		Muddy River	B-CSO	Fresh

Note: There are 30 CSO Outfalls in the Commission's NPDES Permit. However, CSO 19MCSO083 has been eliminated, therefore it is no longer screened and CSO 25MCSO005 has been separated and is now screened as an SDO.

APPENDIX C

Recommendations for Locations with Standing Water

Appendix C
Table C-1
2021 Dry Weather Screening
Recommendations for Locations Historically Unable to Sample due to Standing Water

Recommendation	Outfall ID	Comments
CCTV	6DSDO184	Upstream features have never been located; mapping is likely incorrect. Attempt to CCTV from the outfall upstream to locate upstream structures.
Clean	28IMH15	Standing water all the way up to the starter
	6DSDO91	Small catchment with just a couple of catch basins that always have standing water
Continue Upstream	11BSDO123	Outfall always 100% submerged, upstream MHs also have standing water. Attempt to locate/check 11BMH73 on the East side of VFW Parkway (this may be the most downstream manhole owned by BWSC anyway).
	25ESDO037	Standing water upstream to 25EMH131. If we continue further upstream the system branches off so it will require multiple samples. Possibly at Western Ave MHs 25EMH222 and 25EMH129.
	5FSDO245	Standing water observed up to 5FMH210. Could continue further but will have to collect multiple samples. Possibly at west inlet to 5FMH210 and also upstream along Hyde Park Ave.
Coordinate with MassDOT to see if they have better mapping of this area and to confirm ownership	27JSDO001	Standing water observed up to 27JMH17, and the system has already branched at this point so it would require multiple samples if we continue further upstream. Note - SDE was able to sample during wet weather a few times. Mapping is not good, and DOT may own portions of this catchment area.
	27JSDO096	Standing water observed up to 27JMH94 which has 4 inlets, so it would require multiple samples if we continue upstream. Mapping is not good, and DOT may own portions of this catchment area.

Note: This table contains outfall and interconnections that could not be sampled during dry weather due to standing water or being submerged between 2016 and 2020.

APPENDIX D

Outfall Screening Form (Blank)

Boston Water and Sewer Commission

OUTFALL SCREENING LOG

FACILITY ID

CITYWIDE ILLEGAL CONNECTION INVESTIGATION PROGRAM, PHASE 5

INSPECTION DATE:

STREET LOCATION:

FEATURE ID:

RECEIVING WATER:

OUTFALL FIELD SCREENING PROGRAM

CONDITION ASSESSMENT

Inspector Company:

Inspector(s):

Needs to Be Repaired:

Needs to Be Cleaned:

Pipe Material:

Other:

Pipe Shape:

Other:

Bar Screen-Needs to Be Cleared:

Bar Screen-Broken/Missing/Deteriorated:

Head wall-Corrode/Pitted/Spalled:

Pipe End-Debris/Deposition:

Pipe End-Broken/Collapsed:

Rip-Rap/Channel or Basin-Debris/Deposition:

Rip-Rap/Channel or Basin-Broken/Missing:

Tide Gate-Broken/Missing:

Comments:

PHOTOS

Report Date:

SCREENING AND SAMPLING

GENERAL INFORMATION:

Inspection Type:
Weather:
Air Temp:
Tidal Impact:

Time of Inspection:
Time Since Last Rain:
Qty of Rain Last 24 hours:
If Tidal, Time of Closest Low Tide:

VISUAL OBSERVATIONS AT OUTFALL:

Outfall Located:
Outfall Accessible:
Outfall Sign:
Is there Flow:
If Flow, Velocity:
Submerged:
Sampling Location:
Approx. Sediment Depth:
Approx. Depth Water and Sediment:
Odor:
Other:
Color:
Other:
Turbidity:
Floatables:
Other:
Deposit/Stain:
Other:

FIELD ANALYSIS INFORMATION:

Were Samples Collected:
If No, Reason:
Other Reason No Sample:
pH:
Ammonia:
Temperature:
Surfactants:
Specific Conductivity:
Salinity:
Total Residual Chlorine:
Orthophosphate:

LAB ANALYSIS INFORMATION:

Bacteria Type:
Bacteria Result: **(CFU/100mL)**
Bacteria Duplicate Sample Collected:
Bacteria Duplicate Sample Collected Results: **(CFU/100mL)**
Total Phosphorous: **mg/L**
Phosphorus Duplicate Sample Collected:
Phosphorus Duplicate Sample Collected Results: **mg/L**

COMMENTS:

Report Date:

APPENDIX E

SDE Health and Safety Plan
REVISED 2022

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1.0 General Safety

While in the office or out in the field, all SDE personnel are to refrain from using horseplay and distracting others. Horseplay, scuffling, distraction of fellow workers, throwing of objects, running, and practical jokes may lead to serious injuries. Possession, consumption, or being under the influence of alcohol or drugs is also prohibited during working hours.

- Conduct a daily site hazard review each morning. Document the review using the Daily Hazard Review Meeting survey.
- Conduct an equipment check each morning. Document any issues found using the Daily Hazard Review Meeting survey. Tools, equipment, and supplies should be in good working order without any noticeable signs of damage or structural wear. If damage or wear is noticed a supervisor should be notified and equipment should be replaced prior to use.
- Conduct a check on all personal protective equipment to be used each morning. Document the check using the Daily Hazard Review Meeting survey. If any issues are found a supervisor should be notified. Personal protective equipment should be replaced before use.
- Site work should be performed during daylight hours whenever possible. Work conducted during hours of darkness require enough illumination intensity to read a newspaper without difficulty.
- Good housekeeping must be maintained at all times in all project work areas.
- Common paths of travel should be established and kept free from the accumulation of materials.
- Tools, equipment, materials, and supplies shall be stored in an orderly manner.
- As work progresses, scrap and unessential materials must be neatly stored or removed from the work area.

If unsafe conditions are present, SDE personnel have authority to stop work immediately. Hazardous conditions should be reported to supervisor as soon as it can be done safely.

2.0 Personal Security and Crime Prevention

While conducting your work stay alert, become familiar with your surroundings, report any activity/circumstances that you feel is unusual and always stay in frequent contact with other project personnel. Use the following to help protect yourself from danger while in/out of your vehicle, working alone or in an unsafe area:

- Avoid working alone as much as possible.
- When working at night on the project, plan for extra precautions such as additional lighting, security, police presence or escorts when leaving the project.
- If you are a witness or the victim of a crime, an accident or suspicious/threatening circumstances, report it to the Police as soon as possible.

- Always lock your car doors while driving, and roll windows up far enough to keep anyone from reaching inside.
- At stop signs and lights keep the car in gear, windows rolled up, doors locked and stay alert.
- Travel well-lighted, busy streets. You can spare those extra minutes it may take to avoid an unsafe area.
- Keep your wallet/purse, laptop, and other valuable out of sight, even when you are driving in your locked car.
- Park in safe, well-lighted areas near your destination.
- Always let a project member know where you are and your destination if you must travel alone.
- Always lock your car, even for a short absence. And before unlocking your car, quickly check to make sure no one is hiding on your seats or floors of your vehicle.
- If your car should break down:
  - Get off the roadway, out of the path of oncoming traffic, even if you have to drive on a flat tire. The tire is replaceable.
  - Turn on your emergency flashers.
  - If a motorist stops to render assistance, it is better to remain in the car, and ask them to get help.
  -

3.0 Working Alone

Working alone may not be hazardous in itself, but the work conditions or tasks to be performed on a project site may affect a person's ability to safely perform the work alone or to receive assistance in the event of an emergency.

Personnel can be assigned to work alone only by their project manager, who must assess potential hazards and appropriate control measures.

Listed below are some examples, not all-inclusive, of workplace conditions that must be considered and impact the ability of the employee to safely work alone:

- Is the amount of time needed for the employee to complete the task reasonable, or will fatigue become a factor?
- Do tasks include handling and lifting materials; operating machinery or powered tools; maintaining electrical, pneumatic, or steam powered systems; or working with hazardous substances?
- Is access to the work area difficult, requiring working at heights, below ground, or in structures that are difficult to enter or exit?

- Does the work location present a risk of violence to the employee; require travel off public roads through desolate or steep terrain; or involve work at a remote location or over or near rivers, pools, or lakes?
- What are the environmental conditions, such as temperature extremes or weather conditions?
- Must the work be performed beyond normal business hours or on weekends or holidays?
- Is the person working alone able to communicate with another employee in the event of an emergency or are emergency services readily available?

Examples (not all-inclusive) of precautionary or control measures that can be used to address the conditions or hazards of working alone:

- Conducting a review of the work schedule to determine whether the task could be completed during a time when the employee does not have to work alone.
- Establishing a communication process that will reliably allow contact with the employee working alone, requires check-in at designated time intervals, includes response actions when communication is lost or check-in is not completed, and verifies the employee has returned to their base of operation after completing the task.
- Requiring supervisors to periodically visit and observe worksites where employees work alone.
- Issuing the proper personal protective equipment (PPE) to the employee and ensure it is maintained in acceptable condition.
- Ensuring emergency supplies are provided for employee to use in event of fire, injury/illness, or survival provisions when working in a remote area.

4.0 Personal Protective Equipment

- Long pants, safety shoes (steel toe with non-skid soles), and safety vests are to be worn at all work sites unless specifically instructed otherwise.
- Hard hats to be worn in all construction zones although none are anticipated to be encountered during this project.
- Latex gloves are to be used when handling bacteria samples.
- Conduct a daily check of all PPE to be used to ensure it is in good condition. If anything is not in good working order it should be replaced before use. Checks should include:
    - Check latex gloves to ensure that they are not damaged. Check for holes, yellowing or other defects.
    - Check work gloves to ensure there is no noticeable damage including holes or fraying.
    - Check safety vest to ensure that they are clean, and that reflective material is not damaged.
    - Check safety cones for structural damage. Also check the reflective material to ensure it is in good condition and not damaged, discolored or peeling off.

- Check expiration date on bug spray.
- Check expiration date on Tecnu.

5.0 Cold Stress

- Be aware of the symptoms of cold-related disorders, and wear proper, layered clothing for the anticipated fieldwork. Appropriate rain gear is a must in cool weather.
- Monitor the work conditions and adjust the work schedule as needed.

6.0 Heat Stress

- Drink 16 ounces of water before beginning work. Under severe conditions, drink 1 to 2 cups every 20 minutes, for a total of 1 to 2 gallons per day. Do not use alcohol in place of water or other nonalcoholic fluids. Decrease your intake of or avoid consumption of coffee, carbohydrate-rich beverages, and caffeinated soft drinks during working hours.
- Acclimate yourself by slowly increasing workloads (e.g., do not begin with extremely demanding activities).
- Conduct field activities in the early morning or evening and rotate shifts of workers, if possible.
- Avoid direct sun whenever possible, which can decrease physical efficiency and increase the probability of heat stress. Take regular breaks in a cool, shaded area.

7.0 Roadway Work Safety

Work along/in roadways must be done according to local/state/federal requirements.
The following precautions must be taken when working around traffic:

- Exercise caution when exiting traveled way or parking along street – avoid sudden stops, use flashers, etc.
- Park in a manner that will allow for safe exit from vehicle, and where practicable, park vehicle so that it can serve as a barrier.
- All staff working adjacent to traveled way or within work area must wear the appropriate ANSI/ISEA 107-2004 high-visibility safety vests.
- Remain aware of factors that influence traffic related hazards and required controls – sun glare, rain, wind, flash flooding, limited sight-distance, hills, curves, guardrails, width of shoulder (i.e., breakdown lane), etc.
- Always remain aware of an escape route -- behind an established barrier, parked vehicle, guardrail, etc.
- Always pay attention to moving traffic – never assume drivers are looking out for you
- Work as far from traveled way as possible to avoid creating confusion for drivers.

- When workers must face away from traffic, a “buddy system” should be used, where one worker is looking towards traffic.
- Review traffic control devices to ensure that they are adequate to protect your work area. Traffic control devices should: 1) convey a clear meaning, 2) command respect of road users, and 3) give adequate time for proper traffic response. The adequacy of these devices are dependent on limited sight distance, proximity to ramps or intersections, restrictive width, duration of job, and traffic volume, speed, and proximity.

8.0 Driving Safety

- Abide by all traffic laws.
- Seat belts must be worn at all times.
- Although utilizing cell phones while driving is discouraged, hands-free cell phone devices may be used when necessary. The use of hand held cell phones are strictly prohibited while driving.
- Practice defensive driving. Defensive driving starts from the moment you get behind the wheel. Always be alert to the hazards around you, including changing weather. Driving defensively means taking every possible precaution to avoid an accident, despite the hazards around you.
- Inspect your vehicle before a trip. Make sure tires are properly inflated and loads are securely tied down.
- Eliminate or reduce hazards whenever possible. Make sure that no loose items are on the dashboard or by your feet, or that items are not piled to high on seats or floors.
- Keep a safe distance from the vehicle in front of you.
- Let problem drivers move ahead of you. Do not challenge them.
- Use extra caution when driving in the winter. Clear all snow and ice from the vehicle before driving, leave plenty of room for stopping, and drive slow.
- All vehicles must be equipped with basic emergency response and safety equipment including:
  - Potable water
  - First aid kit
  - Flashlight with extra batteries
  - Anti-bacterial wipes, gel, or solution
  - Minimal personal protective equipment necessary for work at the destination, appropriate for the expected exposures

9.0 Confined Space Awareness

SDE field staff has had training in confined space awareness. Although this project does not require confine space entry, the awareness training was completed in case of an emergency situation.

10.0 Slip and Fall Protection

- Portable ladder safety: always maintain a 3-point (two hands and a foot, or two feet and a hand) contact on the ladder when climbing. Keep your body near the middle of the step and always face the ladder while climbing. Ladders must be free of any slippery material on the rungs, steps or feet. Use a ladder only on a stable and level surface, unless it has been secured (top or bottom) to prevent displacement. An extension or straight ladder used to access an elevated surface must extend at least 3 feet above the point of support. Do not stand on the three top rungs of a straight, single or extension ladder. The proper angle for setting up a ladder is to place its base a quarter of the working length of the ladder from the wall or other vertical surface. Be sure that all locks on an extension ladder are properly engaged.
- Wear shoes with non-slip soles and be particularly careful when walking on slick or icy surfaces during the winter. Extra care should also be taken to prevent slip and fall accidents when going on roofs and/or standing over open manholes.
- Employees walking in ditches, swales and other drainage structures adjacent to roads or across undeveloped land must use caution to prevent slips and falls which can result in twisted or sprained ankles, knees, and backs.
- Whenever possible observe the conditions from a flat surface and do not enter a steep ditch or side of a steep road bed.
- If steep terrain must be negotiated, sturdy shoes or boots that provide ankle support should be used. The need for ladders or ropes to provide stability should be evaluated.

11.0 Manual Lifting

- Proper lifting techniques must be used when lifting any object.
- Plan storage and staging to minimize lifting or carrying distances.
- Split heavy loads into smaller loads.
- Use mechanical lifting aids whenever possible.
- Have someone assist with the lift -- especially for heavy or awkward loads.
- Make sure the path of travel is clear prior to the lift.

12.0 Working Around Untreated Wastewater

When working around untreated wastewater, employees should exercise the following precautions:

- Do not eat or drink.
- Minimize contact with surfaces.

- Don’t touch eyes, ears, nose and mouth.
- Wash hands immediately upon leaving the site or going into office areas or vehicles. Ensure that adequate washing facilities are available for employees. For situations where hand washing facilities are not readily available, antibacterial hand gels can be used to prevent the spread of germs.
- If touching contaminated surfaces is unavoidable, wear surgical-type nitrile gloves. Carefully remove gloves by rolling them inside out, and wash hands immediately.
- Avoid shaking hands with other employees, and maintain a distance of approximately 3 feet during conversations to avoid spread of colds, flu and other contagious diseases.

13.0 Dog Safety

- Avoid all dogs – both leashed and stray.
- Don't disturb a dog while it is sleeping, eating, or caring for puppies.
- If a dog approaches to sniff you, stay still and do not reach out to the dog as it may be interpreted as an act of aggression.
- An aggressive dog has a tight mouth, flattened ears, and a direct stare.
- If you are threatened by a dog, remain calm, don't scream, and avoid direct eye contact.
- If you say anything, speak calmly and firmly.
- Don't turn and run. Try to stay still until the dog leaves, or back away slowly until the dog is out of sight or you have reached safety (e.g., vehicle, outside a gated/fenced area).
- If attacked, retreat to vehicle or attempt to place something between you and the dog.
- If you fall or are knocked to the ground, curl into a ball with your hands over your head and neck, and protect your face.
- If bitten, immediately scrub the bite site vigorously with soap and water, seek medical attention as soon as possible, and report the incident to the local authorities.

14.0 COVID-19 Pandemic

Per CDC and OSHA guidelines as of 04/15/2020.

- Stay home if sick.
- Leave the office or project site immediately and report this to supervisor via phone, text or email if flu-like symptoms are experienced.
- Stay home and inform supervisor if anyone in your household or visitors to your household have travelled to any country which has resulted in a government entity instructing them to self-quarantine within the past 14 days.

- Stay home if anyone in your household or anyone you've been in close contact with in the last 14 days is experiencing flu-like symptoms.
- Take temperature prior to leaving home. Stay home if recorded temperature is 100.3 or higher.
- Maintain a minimum of a six-foot social distance from other individuals. This includes holding meetings outside and limit the number of individuals inside project offices or trailers to ensure social distancing is always maintained.
- Wash hands frequently with soap and water or an alcohol-based sanitizer. At a minimum, this should be done at the beginning of each shift, after using the restroom, after coughing or sneezing, and prior to eating. Wash hands more frequently if you handle any items that are shared or communal items such as tools and equipment, plans, or other shared resources.
- Wear PPE when on site with other individuals. PPE includes Nitrile gloves, safety goggles and cloth mask covering nose and mouth.
- Rigorously clean all frequently touched surfaces throughout the workday. Use cleaning products typically used in these areas and follow directions on the product labels.
- Avoid touching eyes, nose and mouth with unwashed hands.
- Acknowledge and follow any additional requirements set forth by the Client.

15.0 Emergency Contacts

SDE will develop a project specific emergency contact plan. The template below will be utilized.

Medical Emergency	911		
Fire/Spill Emergency	911	Boston FD	617-343-3550
Security and Police	911	Boston PD	617-343-4200
Utilities Emergency			
Water/Sewer		BWSC	617-989-7000
Gas		NSTAR Gas	800-592-2000
Electric		NSTAR Electric	800-592-2000

16.0 Hospital Contact Information and Directions

Hospital Name/Address: Boston Medical Center
One Boston Medical Center Place
Boston, MA 02118

Hospital Phone #: 617-638-8000

Directions to the Hospital

Access by Car

From the North:
1. Follow Route 1 (Via Mystic/ Tobin Bridge) to Route 93 South.
2. Take Exit 18 (Mass Ave).
3. At traffic light, take right onto access road; stay in right lane.
4. At end of access road, turn right onto Massachusettes Ave.

For directions to your BUMC/BMC destination, please follow signs.

From the South:
1. Take Expressway North (Route 93/3).
2. Take Exit 18.
3. At the third traffic light, take left onto access road stay in right lane.
4. At end of access road, turn right onto Massachusetts Ave.

For directions to your BUMC/BMC destination, please follow signs.

From the West:
1. Take the Massachusetts Turnpike (Route 90) East to end.
2. Take Expressway South (Route 93).
3. Take Exit 18 (Mass Ave.).
4. At traffic light, take right onto access road; stay in the right lane.
5. At end of access road, turn right onto Massachusetts Ave.

For directions to your BUMC/BMC destination, please follow signs.

From Logan Airport:
1. Go through the Sumner Tunnel (Route 1A South) to Expressway South.
2. Take Expressway South (Route 93.)
3. Take Exit 18 (Mass Ave.)
4. At the traffic light, take right onto access road; stay in right lane.
5. At end of access road, turn right onto Massachusetts Ave.

17.0 Signatures

First Name (Print)	Last Name (Print)	Signature	Date

Appendix B

Citywide Illegal Connection Investigation Program
Wet Weather Screening Protocols

Stantec

Citywide Illegal Connection Investigation, Phase 5 (CWI5)

Wet Weather Outfall Screening Protocols

To:	Amy Schofield Boston Water and Sewer Commission 980 Harrison Ave Boston, MA	From:	Jennifer Zoppo, PMP Stantec 226 Causeway Street 6th Floor, Boston, MA
File:	195150656	Last Revised Date:	January 20, 2023

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INTRODUCTION

The purpose of this document is to outline field procedures to perform wet weather screening and sampling of the Boston Water and Sewer Commission's (Commission's or BWSC's) storm drain outfalls (SDOs), combined sewer overflow outfalls (CSOs), and storm drain interconnections between the Commission and storm drains owned by other Municipal Separate Storm Sewer Systems (MS4s). This document was originally developed in 2012 under Phase 3 and has been revised numerous times as the program evolved, primarily capturing changes to the list of outfalls to be screened. Appendix A provides a history of revisions. A significant update was completed November of 2020. At that time the protocols were revised to capture changes to the sample collection and analysis procedures which have occurred over time, to address locations that have not been sampled in the past due to standing water, and to include an updated health and safety plan addressing impacts of COVID-19.

The goal of the wet weather field screening program is to collect a sample at all locations where flow was not observed during dry weather screening as well as locations where dry weather flow was below all Illicit Discharge Detection and Elimination (IDDE) thresholds as defined in paragraph 11 of Section VII Remedial Measures of Civil Action No. 10-10250-RGS, and determine if the wet weather flow is contaminated. Screening will consist of recording weather conditions, observing visual and olfactory characteristics of wet weather flow, and collecting samples to be analyzed for bacteria and other parameters as discussed below.

Stacey DePasquale Engineering, Inc. (SDE), as a subcontractor to Stantec, will perform the outfall screening field work. SDE has been completing wet weather outfall screening and sampling for the Commission since 2013 and is therefore familiar with each sampling location. The current (2023) list of approved storm drain outfalls (Table B-1), interconnections (Table B-2), and CSO outfalls (Table B-3) are included in Appendix B. The interconnection sampling locations will be storm drain manholes. Each year these lists are re-generated based on the Commission's previous year dry weather screening and sampling data.

Each outfall will be identified by its unique outfall Facility ID, and interconnections will be identified by their unique manhole Facility ID, as shown in Appendix B.

WEATHER AND TIDE MONITORING

SDE will continuously monitor (and keep records of) weather forecasts as a basis for determining when a period of acceptable wet weather exists in order to mobilize field crews to perform the wet weather screening. "Screening and Sampling" as described below may proceed under the following conditions, as stipulated in paragraph 13 of Section VII Remedial Measures of Civil Action No. 10-10250-RGS:

At least 0.25 inches of rainfall in the preceding 24 hours, or precipitation event sufficient to produce flow in an outfall

SDE will use the Commission's rain gauges to confirm that wet weather conditions have been met prior to mobilizing. For tidal locations, Screening and Sampling must be performed near low tide.

SCREENING AND SAMPLING

One day prior to screening and sampling visits, SDE will notify the laboratory and the courier of the schedule for the sampling day.

A two-person field crew will conduct the screening and sampling by visiting the location of each outfall or interconnection manhole. SDE may have multiple two-person crews working simultaneously in order to visit as many locations as possible during the most ideal wet weather conditions.

Where possible, the same screening location will be used each year for wet and dry weather screening. If the same location is not accessible, field crews will locate an alternate suitable screening site. The selected screening site will be as near the outfall as possible and free of standing water or back flow from the receiving water. It is anticipated that selected manholes in these cases will be no more than three manholes or 750 feet upstream outside of backflow or tidal influence. In any case where the sampling location for wet weather screening differs from the sampling location for dry weather screening, the reason for the change will be noted in the field form.

For locations that are submerged or have standing water present[1], SDE will inspect up to three manholes directly upgradient but no more than 750 feet from the outlet. SDE will note which of these locations also has

[1]The term "submerged" is typically used only for outfalls and means that the outfall opening is below the water level of the receiving water. The term "standing water" means there is water present at the invert which is not flowing, and at least a

standing water and then, at the first upstream accessible manhole location from the outfall free of standing water, perform the same data recording and sampling as described above. If all manholes inspected upstream of the outfall contain standing water, then a sample will not be collected. Outfalls that are unable to be sampled because they are submerged or have standing water must be reported to the Commission so that an alternate sampling location may be identified. Based on historical outfall screening data, a list of outfalls that are typically submerged or have standing water are provided in Appendix C with recommendations on how to proceed which include cleaning and CCTV. In the meantime, SDE should continue to visit these outfalls and attempt to identify a suitable sampling location.

If an upstream manhole is used for screening and sampling SDE will note if there is more than one inlet to the manhole as well as the flow characteristics from each pipe. It is important at CSO outfalls to collect a sample at a manhole downstream of the regulator. Sampling at CSO outfalls should be done prior to activation of the upstream CSO regulator(s) or during a precipitation event that does not cause any upstream CSO regulator(s) to activate. At the time of sample collection, SDE will check the upstream regulator(s) to confirm that they have not activated.

All observations and activities conducted at each screening location will be recorded on the screening and sampling form included in Appendix D. Forms will be completed electronically. Data will be exported to a spreadsheet and paper reports will also be generated and posted on the project SharePoint site on a weekly basis. The information recorded on the forms will include weather conditions during, and in the 24 hours prior to, each sampling event. At each location where flow is observed, an observation of flow characteristics will be recorded (odor, color, clarity, turbidity, deposits/stains). Samples will be collected for laboratory analysis of the wet-weather flow for either *E. coli* bacteria or *Enterococcus* bacteria. Tables provided in Appendix B designate each outfall and interconnection location as discharging to fresh or marine waters. Discharges to fresh water bodies shall be sampled for *E. coli* analysis, and those discharging to marine water bodies shall be sampled for *Enterococcus* analysis.

Analytical samples collected will be labeled, sealed, and stored in ice-filled coolers. Samples will be transferred to G&L Laboratories of Quincy, MA for analysis within six hours of sample collection. Completed chains of custody will accompany each shipment to the lab. It is estimated that between 6 and 12 samples will be collected per day for a single crew, depending on distance among outfall locations. All samples will be collected in accordance with the detailed sampling procedures below.

In addition to each analytical sample collected, the field crews will estimate the flow and collect a sample for on-site evaluation of the following parameters:

- Temperature,
- pH,
- Specific conductivity,
- Surfactants,
- Ammonia,
- Total Residual Chlorine,
- Salinity

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portion of the outfall opening is above the water level of the receiving water. Standing water occurs at both outfalls and manholes but is more common at manholes.

SAMPLING PROCEDURES

The following procedure outlines, in detail, the steps to be taken during outfall and interconnection screening and sampling:

- Prior to the start of sampling, a trip blank sample must be prepared by filling a laboratory-provided sample container with clean bottled water (distilled or bottled drinking water is acceptable). This trip blank sample will be labeled and kept in a cooler with all samples collected that particular day.
- Upon arrival at the appropriate screening location, begin a new Screening and Sampling Form. Blank forms are included in Appendix D.
- Indicate whether the screening location is a storm drain outfall, combined sewer overflow outfall, or interconnection manhole.
- Record all pertinent observational information, including a general description of flow velocity, depth of water, appearance of water, etc. *Note: flow rate will not be calculated in the field during inspections because it would significantly slow down the inspection process. However, flow can be calculated after-the-fact based on information that SDE records in the field during inspections, including the estimated velocity, the diameter of the outfall, and the approximate depth of water.*
- If outfall sampling location is a manhole, complete information related to manhole appearance and condition.
- Record the time of sampling.
- Place a clean grab sampling container into the middle of the flow stream facing upstream. Retrieve the container after it has filled and swirl the contents to coat all inside surfaces with sample water. Dump the contents of the container away from or downstream of sampling location. Repeat this twice, so that sample container is fully rinsed with sample water three times.
- Using the same method, fill and retrieve the sample container a fourth time. Gently swirl container to maintain mixing of the grab sample.
- Open the sterile container for bacterial sampling. Use caution to handle only the outside of each sample container and to maintain sterile conditions during collection of bacterial samples. Fill sterile container with sample water and seal container. If duplicate samples are being collected at a particular location, they should be poured from the same container. The appropriate analysis will be conducted at sample locations as follows:
    - *E. coli* – freshwater discharge locations;
    - *Enterococcus* – marine discharge locations.
- Verify that the sample container is properly sealed and label each sample container with sample identifier, date, time, preservative type (ice only), and initials of sampling personnel. Duplicate samples shall be labeled with a “D” preceding the sample identifier. All information shall be also recorded on the field form.
- Place sample containers in ice-filled coolers until later transport to the lab takes place.
- Conduct on-site measurements of field parameters on remaining volume in sample container. If more volume is needed, a subsequent grab sample may be collected in the manner described for analytical sample collection.
    1. Test kits will be used for field measurements of surfactants, ammonia, and total residual chlorine as follows:

- Ammonia: CHEMetrics K-1510 or Hach Ammonia (Nitrogen) test strips
- Surfactants: CHEMetrics K-9400
- Total Residual Chlorine: CHEMetrics K-2504

2. Oakton PCTSTestr50, a portable meter, will be used for measurements of pH, salinity, temperature, and specific conductivity. (Note that instrumentation shall be checked and calibrated at least bi-weekly.)

- Gently swirl the container to maintain mixing.
- Use manufacture instructions to run the sample for the required field parameters.
- Record results and time of measurements on the field form.
- Clean and store meter during travel between sampling locations.
- For any reusable sampling equipment, decontamination shall be performed as follows:
    1. Rinse equipment with a 70% isopropyl alcohol solution. Rinsate shall be collected in a bucket and disposed of properly.
    2. Rinse equipment with distilled water.
- Note that samples must be transferred to G&L Laboratories within six-hours of sample collection, and samples must be analyzed within an **eight-hour holding time** from sample collection.
- Prior to transfer to the lab, a chain of custody shall be filled out and must accompany samples at all times. The person receiving samples at the lab must sign each chain of custody.

QUALITY ASSURANCE/QUALITY CONTROL

This Quality Assurance/Quality Control (QA/QC) section will establish the data quality objectives (DQOs) for the program, as follows:

- Data must be complete and of sufficient detail to assess water quality at each screening location.
- Data should represent actual conditions at the outfall outlet or interconnection manhole inlet.
- Data should be generated by accepted sampling methodologies.
- Data must be reproducible and accurate.

The screening and sampling program has been developed to encompass these DQOs as they pertain to characterizing the physical condition and water quality at each screening location. Sampling techniques selected were based upon past methods employed in the Boston Water and Sewer Commission's monitoring programs and upon standard industry practice. Field crew members from SDE have prior experience with sample methods and equipment usage. The methods proposed for field testing are standard methods, as stated in EPA guidance (EPA, 1986; 2002; 2014). In addition, G&L Laboratories is State and EPA certified to conduct the required analyses.

Table 1-1 lists the analytical methods to be used for each of the parameters to be tested.

Table 1-1: Analytical Methods to be used for Bacterial Analysis

Parameter	Analytical Method
E. coli	EPA 1603
Enterococcus	EPA1600

Measures employed to ensure that QA/QC DQOs are met are described as follows.

Precision

Precision is the ability to obtain reproducible results when analyzing duplicate samples. The overall sampling precision will be determined by the collection and analysis of field duplicate samples that are not identified as such to the analytical laboratory. Duplicate samples will be collected for the same analysis as the parent samples. They will be assigned an identical sample identifier, except for the addition of “D” preceding the identifier. Duplicate samples are to be collected at the frequency of one per twenty samples.

Because bacteria are living organisms that reproduce and die after sample collection, some degree of disparity between the duplicate sample and the original sample is expected and not necessarily reflective of sample collection or laboratory error.

Accuracy

Accuracy is the degree of difference between a reported value and its true value. As part of ensuring sufficient accuracy, minimization of false positive and false negative analytical data is attempted.

The potential for false positive data values will be assessed through the analysis of laboratory blanks, which must be less than the method detection limit (MDL) or instrument detection limit. Each batch of samples analyzed will be run with a laboratory blank.

Accuracy will also be assessed through the use of control samples of known composition. Laboratory control samples and calibration standards will be used by the laboratory, as needed.

Representativeness

Sample collection under this program is intended to provide data representative of actual conditions at particular screening locations. In order to ensure representativeness, outfall sample locations are selected as close to actual outfall outlets as possible. Where an outfall is unsuitable for sampling at its outlet due to inaccessibility, tidal inflows, or backwater effects, locations upstream may be selected with Commission approval only. However, since grab samples are only representative of a snapshot of water quality conditions at a given point in time, they may not be representative of long-term conditions. Data collected must be evaluated while recognizing this limitation.

In addition, samples collected must be representative of water quality at the location they were taken and not be influenced by cross-contamination from other samples collected the same day and stored in the same ice cooler. In order to ensure this, trip blank samples will be collected at the start of each day by filling a laboratory-provided container with clean bottled water. This filled container will be carried throughout the day in the same ice cooler with samples collected.

Sample Handling and Custody

All filled sample containers will be placed on ice immediately following sample collection. They shall then be transported to the lab, G&L Laboratories, within six hours for analysis within 8 hours. (Note that the holding time is applicable from time of sample collection to time of analysis.) A completed chain of custody must accompany each sample shipment to the lab, and sample custody will be tracked throughout the full analytical process in the lab. These forms will be included in the analytical report to Stantec. Table 1-2 lists required types of containers and preservation for each analysis to be performed.

Table 1-2: Requirements for Sample Holding

Parameter	Container Volume	Container Type	Preservative	Holding Time
E. coli	100 mL	Sterile plastic	Cooled to <10°C	8 hours
Enterococcus	100 mL	Sterile plastic	Cooled to <10°C	8 hours

Instrument/Equipment Testing, Inspection, and Maintenance

Testing, inspection, and maintenance will be performed for all instruments and equipment to be employed for the lab analyses to be conducted as part of this program, and such activities will be done in accordance with G&L Laboratories' quality procedures.

All field sampling equipment and instrumentation will be inspected on a regular basis, and preventative maintenance will be performed. Prior to mobilization to the field sites, equipment and instrumentation will be checked and calibrated in the office. Following each sampling event, all field equipment and instrumentation will be cleaned and stored properly.

Performance Audits and Corrective Actions

Periodic audits of the field program will be conducted by Stantec at the start of the screening and sampling activities and on a random basis to evaluate adherence to and appropriateness of QA/QC requirements in the field. If unacceptable conditions are noted, Stantec and SDE will initiate corrective actions together. These corrective actions may include:

- Re-analyzing samples (if holding times permit doing so);
- Re-sampling and subsequent analysis;
- Evaluating and amending sampling and analytical procedures;
- Accepting potentially flawed data with acknowledgement of uncertainty or inaccuracy by flagging of data and providing a qualifying explanation.

GENERAL FIELD REQUIREMENTS AND SAFETY

Any major blockages, collapses, or defects to the storm drainage system or sanitary sewer system (that may pose a public health and safety threat) observed during any field operations will be reported to the Commission within 48 hours.

Field crews are authorized to request a police detail for personal safety reasons at any time.

SDE's Health and Safety Plan is provided in Appendix E and has been updated to include COVID-19 protocols. The Commission does not require safety vests to be issued by the Commission, but crews must have safety vests and they must be worn in the field.

REFERENCES

US Environmental Protection Agency, September 2014. Method 1600: Enterococci in Water by Membrane Filtration Using membrane- Enterococcus Indoxyl- β-D-Glucoside Agar (mEI), EPA 821-R-14-011. US Environmental Protection Agency, Office of Water (4303T), Washington DC.

U.S. Environmental Protection Agency. September 2014. Method 1603: Escherichia coli (E. coli) in Water by Membrane Filtration Using Modified membrane-Thermotolerant Escherichia coli Agar (Modified mTEC). EPA-821-R-14-010. U.S. Environmental Protection Agency, Office of Water (4303T), Washington, DC.

EPA. 1986. Ambient Water Quality Criteria for Bacteria – 1986. January.

EPA. 2009. Urban Stormwater BMP Performance Monitoring. October 2009.

APPENDIX

Appendix A	History of Revisions to Wet Weather Outfall Screening Protocols	
Appendix B	Locations Approved for Inspection *(to be updated annually)*	
	Table B-1	Storm Drain Outfalls 2023
	Table B-2	Interconnection Manholes 2023
	Table B-3	Combined Sewer Overflow Outfalls 2023
Appendix C	Table C-1	Recommendations for Locations with Standing Water
Appendix D	Outfall Screening Form (Blank)	
Appendix E	SDE Health and Safety Plan (Updated 2022)	

APPENDIX A

History of Revisions to Wet Weather Outfall Screening Protocols

APPENDIX A

History of Revisions to Wet Weather Outfall Screening Protocols

10/9/2020	CWI5 Kickoff Updates: • Stantec review of EPA Methods 1600 and 1603 revised 2014 (prior protocols based on 2002 versions). Revisions made accordingly, including update of sample holding time to clarify that samples must be delivered to the lab within 6 hours from the time of sample collection and analyzed by the lab within 8 hours from the time of sample collection. Also updated sample preservation temperature from 4 ^{o}C to <10 ^{o}C. • Updated field instrument and test kit manufacturer/model, and calibration frequency • Removed Appendix C, "Wet Weather Screening of CSOs Memorandum". No longer needed; SDE samples as close to the 0.25 inch wet threshold making sure that the rainfall intensity is not too high. • Additional information/guidance provided for locations that are consistently submerged or have standing water present during wet weather screening • Updated Outfall Screening Form • Added SDE Health and Safety Plan, including information about COVID safety measures
5/7/2020	9BSDO049 has been added to the 2020 list of outfalls to be screened for wet weather, in response to observations made by the Charles River Watershed Association.
2/21/2017	19MCSO083 has been abandoned and does not need to be screened anymore.
4/11/2014	Remove 7HSDO287 from the list because during 2013 dry weather screening SDE determined that this outfall is no longer active; the outlet from the upstream catch basin has been bricked and flows are directed to 7HSDO285.
3/13/2014	Replaced 26KSDO245 with 26KSDO254. It was determined that 26KSDO245 belongs to DCR.
2/19/2014	Updated the Facility ID and Feature ID for 25MCSO007, 26JCSO049, and 21NCSO80.
1/20/2014	Added outfall 24CSDO039 to replace interconnection 24CMH14, which was sampled in 2012 and 2013.
9/10/2013	Added 7HSDO287 to the list with screening not required per BWSC request. Also added a comment field to the SDO table and included 12BMH032 as the recommended manhole for sampling for 12BSDO033 and 12BSDO031.
9/5/2013	Updated protocols with new lists of SDOs, CSOs, and interconnections for 2013 wet weather screening

4/12/2013	Added CSO 19N081 to the approved CSO screening list. Updated Facility ID for 7CSDO006.
3/25/2013	Added CSOs to the approved outfall list and added the 3/5/2013 Wet Weather Screening of CSOs memorandum for reference.
3/5/2013	Added language regarding wet weather sample collection at CSO outfalls (SDE must check the upstream regulator(s) at the time of sampling to confirm that the regulator(s) have not activated).
2/13/2013	Table A-2 in Appendix A has been updated to change 28MMH15 to 28IMH15. Despite the label being incorrect, the correct manhole was sampled in the past.
2/12/2013	SDE was reminded to collect field duplicate samples in one container and then pour from the one container into two separate sample bottles. Prior to this field duplicates had been collected separately.
1/8/2013	Added Facility ID to the Tables in Appendix A
12/7/2012	Original document created

APPENDIX B

Locations Approved for Inspection

2023

Appendix B
Table B-1
2023 Outfall Screening and Sampling
List of Approved Storm Drain Outfalls - Wet Weather
Updated 1/20/2023

OUTFALL FACILITY ID	OUTFALL FEATURE ID	STREET LOCATION	DRAINAGE AREA	NEIGHBORHOOD	SIZE (INCHES)	TIDEGATES	RECEIVING WATER	Fresh/ Marine
1ESDO24	105640001	EASEMENT/LAKESIDE	01E024	HYDE PARK	15		SPRAGUE POND/NEPONSET RIVER	FRESH
1FSDO31	106640001	EASEMENT/MILLSTONE RD	01F031	HYDE PARK	48X24		NEPONSET RIVER	FRESH
2ESDO5	205640001	WEST MILTON STREET	02E086	HYDE PARK	24		UNAMED WETLANDS	FRESH
2FSDO85	206640005	LAWTON STREET	02F085	HYDE PARK	12		NEPONSET RIVER RESERVATION	FRESH
2FSDO93	206640003	EASEMENT/SIERRA RD	02F093	HYDE PARK	15		NEPONSET RIVER	FRESH
3ESDO185	305640003	NORTON ST	03E185	HYDE PARK	2-18		WETLANDS/NEPONSET RIVER	FRESH
3ESDO186	305640002	RIVER STREET	03E186	HYDE PARK	24		MILL POND/MOTHER BROOK	FRESH
3ESDO207	305640001	RIVER STREET	NA	HYDE PARK	UNKNOWN		MILL POND/MOTHER BROOK	FRESH
4ESDO64	405640002	ALVARDO AVE/RIVER ST BRIDGE	04E064	HYDE PARK	12		MILL POND/MOTHER BROOK	FRESH
4ESDO69	405640001	KNIGHT ST DAM	04E069	HYDE PARK	36		MOTHER BROOK	FRESH
4FSDO1	406640010	RESERVATION RD		HYDE PARK			MOTHER BROOK/NEPONSET RIVER	FRESH
4FSDO16	406640003	EASEMENT RIVER ST	04F016	HYDE PARK	30		MOTHER BROOK/NEPONSET RIVER	FRESH
4FSDO118	406640005	MASON STREET EXT.	04F118	HYDE PARK	18		NEPONSET RIVER	FRESH
4FSDO189	406640001	RESERVATION RD	04F189	HYDE PARK	36		MOTHER BROOK/NEPONSET RIVER	FRESH
4FSDO203	406640004	GLENWOOD AVE	04F203	HYDE PARK	28		NEPONSET RIVER	FRESH
4FSDO204	406640002	TRUMAN HWY/CHITTICK ST	04F204	HYDE PARK	36		NEPONSET RIVER	FRESH
5ESDO180	505640002	GEORGETOWN DRIVE	05E180	HYDE PARK	12		NONE SHOWN/CHARLES RIVER	FRESH
5ESDO181	505640006	GEORGETOWN DRIVE	05E181	HYDE PARK	12		NONE SHOWN/CHARLES RIVER	FRESH
5ESDO182	505640005	DEDHAM STREET	05E182	HYDE PARK	21		UNNAMED STREAM/CHARLES RIVER	FRESH
5ESDO183	505640007	GEORGETOWN PLACE/DEDHAM ST	05E183	HYDE PARK	12		UNNAMED STREAM	FRESH
5ESDO184	505640008	TURTLE POND PARKWAY	05E184	HYDE PARK	21		UNAMED WETLANDS	FRESH
5FSDO244	506640008	HYDE PARK AVE BRIDGE	05F244	HYDE PARK	20		MOTHER BROOK/NEPONSET RIVER	FRESH
5FSDO245	506640007	HYDE PARK AVE	05F245	HYDE PARK	33		MOTHER BROOK/NEPONSET RIVER	FRESH
5FSDO254	506640004	DANA AVENUE	05F254	HYDE PARK	12		NEPONSET RIVER	FRESH
5GSDO112	507640002	EASEMENT/RR ROW/WATER ST EXT	05G112	HYDE PARK	30		NEPONSET RIVER	FRESH
5GSDO115	507640006	FAIRMOUNT AVE BRIDGE (NORTH BANK)	05G115	HYDE PARK	24		NEPONSET RIVER	FRESH
5GSDO116	507640007	FAIRMOUNT AVE BRIDGE (SOUTH BANK)	05G116	HYDE PARK	24		NEPONSET RIVER	FRESH
6DSDO57	604640001	CEDAR CREST CIRCLE	06D057	WEST ROXBURY	21		CHARLES RIVER	FRESH
6DSDO83	604640007	MARGARETTA DRIVE	06D084	WEST ROXBURY	15		WETLANDS/CHARLES RIVER	FRESH
6DSDO84	604640008	EASEMENT/MARGARETTA DRIVE	06D083	WEST ROXBURY	12		WETLANDS/CHARLES RIVER	FRESH
6DSDO85	604640006	GEORGETOWN DRIVE	06D085	WEST ROXBURY	12		WETLANDS/CHARLES RIVER	FRESH
6DSDO86	604640005	GEORGETOWN DRIVE	06D086	WEST ROXBURY	10		WETLANDS/CHARLES RIVER	FRESH
6DSDO91	604640003	GEORGETOWN DRIVE	06D091	WEST ROXBURY	10		WETLANDS/CHARLES RIVER	FRESH
6FSDO233	606640001	MOUNT ASH ROAD	05F253	HYDE PARK	UNKNOWN		WETLAND - STONY BROOK RESERVATION	FRESH
6HSDO106	608640004	OSCEOLA STREET	06H106	HYDE PARK	24		NEPONSET RIVER	FRESH
6HSDO107	608640005	EASEMENT/BELNEL RD	06H107	HYDE PARK	24		NEPONSET RIVER	FRESH
7HSDO346	708640009	EDGEWATER DRIVE/HOLMFIELD AVE	07H346	HYDE PARK	18		NEPONSET RIVER	FRESH
7HSDO347	708640008	EDGEWATER DRIVE/BURMAH ROAD	07H347	NEPONSET/MATTAPAN	21		NEPONSET RIVER	FRESH
7HSDO348	708640007	EDGEWATER DRIVE/TOPALIAN STREET	07H348	NEPONSET/MATTAPAN	24		NEPONSET RIVER	FRESH
8BSDO126	802640003	SPRING STREET EXTENDED	08B126	WEST ROXBURY	30		CHARLES RIVER	FRESH

Appendix B
Table B-1
2023 Outfall Screening and Sampling
List of Approved Storm Drain Outfalls - Wet Weather
Updated 1/20/2023

OUTFALL FACILITY ID	OUTFALL FEATURE ID	STREET LOCATION	DRAINAGE AREA	NEIGHBORHOOD	SIZE (INCHES)	TIDEGATES	RECEIVING WATER	Fresh/ Marine
8CSDO25	803640004	WEDGEMERE ROAD	08C025/026	WEST ROXBURY	two 24		NONE SHOWN	FRESH
8CSDO26	803640005	WEDGEMERE ROAD	08C025/026	WEST ROXBURY	two 24		NONE SHOWN	FRESH
8ESDO33	805640003	TURTLE POND PARKWAY	08E033				TURTLE POND	FRESH
8ESDO35	805640001	WASHINGTON STREET	08E035	WEST ROXBURY	15		TURTLE POND	FRESH
8FSDO1	806640001	SHERRIN STREET	NA	HYDE PARK	24		NONE SHOWN	FRESH
8ISDO153	809640001	DUXBURY ROAD	08I153	NEPONSET/MATTAPAN	15		NEPONSET RIVER	FRESH
8ISDO154	809640005	EASEMENT/RIVER ST/GLADESIDE AVE	08I154	NEPONSET/MATTAPAN	18		NEPONSET RIVER	FRESH
8ISDO155	809640002	EASEMENT/RIVER ST/MAMELON CIR	08I155	NEPONSET/MATTAPAN	24		NEPONSET RIVER	FRESH
8ISDO156	809640003	EASEMENT/RIVER ST/MAMELON CIR	08I156	NEPONSET/MATTAPAN	24		NEPONSET RIVER	FRESH
8ISDO158	809640006	EASEMENT/RIVER ST/FREMONT ST	08I158	NEPONSET/MATTAPAN	18		NEPONSET RIVER	FRESH
8ISDO207	809640008	MEADOWBANK AVE EXT	08I207	NEPONSET/MATTAPAN	15		NEPONSET RIVER	FRESH
8ISDO209	809640004	MEADOWBANK AVE EXT	08I209	NEPONSET/MATTAPAN	12		NEPONSET RIVER	FRESH
8JSDO41	810640003	RIVER STREET	08J036/041	DORCHESTER	18		NEPONSET RIVER	FRESH
8JSDO102	810640001	ADAMS STREET	08J102	DORCHESTER	15X15		NEPONSET RIVER	MARINE
8KSDO49	811640001	BEARSE AVENUE	08K049	DORCHESTER	12		NEPONSET RIVER	MARINE
9BSDO49	902640001	EASEMENT/RIVERMOOR ST	09B049	WEST ROXBURY	30		COW ISLAND POND/CHARLES RIVER	FRESH
9ESDO229	905640001	GRANDVIEW STREET	09E229	WEST ROXBURY	12		NONE SHOWN	FRESH
9ESDO243	905640002	BLUE LEDGE TR/EASEMENT	09E243	WEST ROXBURY	30		UNNAMED STREAM	FRESH
9KSDO16	911640003	EASEMENT/BEARSE AVE EXT	09K016	DORCHESTER	15		NEPONSET RIVER	MARINE
11BSDO123	1102640003	EASEMENT/EAST OF BAKER ST EXT.	11B123	WEST ROXBURY	72		BROOK FARM BROOK/CHARLES RIVER	FRESH
11GSDO344 (	1107640002 (	CULVERT UNDER WALK HILL STREET	11G344	ROSLINDALE	24		CANTERBURY BROOK	FRESH
11GSDO344 (	1107640002 (	CULVERT UNDER WALK HILL STREET	11G344	ROSLINDALE	18		CANTERBURY BROOK	FRESH
12BSDO10	1202640001	BAKER STREET	12B010	WEST ROXBURY	15		BROOK FARM BROOK	FRESH
12BSDO14	1202640003	BAKER STREET	12B014	WEST ROXBURY	12		BROOK FARM BROOK	FRESH
12BSDO033	1202640002	EASEMENT/BAKER STREET	12B033	WEST ROXBURY	18		BROOK FARM BROOK	FRESH
12BSDO124	1202640004	EASEMENT/LAGRANGE STREET	12B124	WEST ROXBURY	120		BROOK FARM BROOK	FRESH
12FSDO305	1206660240	EASEMENT/ARBOROUGH ROAD	12F305	ROSLINDALE	12		UNAMED WETLANDS	FRESH
12HSDO1 (12	1208640006 (	MORTON STREET	12H085	ROSLINDALE	15		CANTERBURY BROOK	FRESH
12HSDO1 (12	1208640006 (	MORTON STREET	12H087	ROSLINDALE	15		CANTERBURY BROOK	FRESH
13BSDO11	1302640001	LAGRANGE STREET	13B011	WEST ROXBURY	12		UNNAMED STREAM	FRESH
13ESDO174	1305640002	EASEMENT/VFW PARKWAY	13E174	ROSLINDALE	24		BUSSEY BROOK	FRESH
13ESDO176	1305640004	EASEMENT/WELD ST	13E176	ROSLINDALE	15		NONE SHOWN	FRESH
13FSDO95	1306640001	EASEMENT/BUSSEY STREET	13F095	ROSLINDALE	12		BUSSEY BROOK	FRESH
13FSDO96	1306640006	SOUTH STREET		ROSLINDALE			MARSH	FRESH
13FSDO97	1306640007	SOUTH STREET		ROSLINDALE			MARSH	FRESH
14CSDO9	1403640001	EASEMENT/WESTGATE RD	14C009	WEST ROXBURY	36		UNNAMED WETLANDS	FRESH
17FSDO12	1706640001	FRANCIS PARKMAN DRIVE	17F012	JAMAICA PLAIN	15		JAMAICA POND	FRESH
19GSDO199	1907640003	JAMAICA WAY	19G199	ROXBURY/MISSION HILL	10		MUDDY RIVER	FRESH
20GSDO163	2007640001	EASEMENT/RIVERWAY	20G163	ROXBURY/MISSION HILL	20		MUDDY RIVER	FRESH
20GSDO164	2007640005	BROOKLINE AVE		ROXBURY/MISSION HILL			MUDDY RIVER	FRESH

Appendix B
Table B-1
2023 Outfall Screening and Sampling
List of Approved Storm Drain Outfalls - Wet Weather
Updated 1/20/2023

OUTFALL FACILITY ID	OUTFALL FEATURE ID	STREET LOCATION	DRAINAGE AREA	NEIGHBORHOOD	SIZE (INCHES)	TIDEGATES	RECEIVING WATER	Fresh/ Marine
21HSDO047 (	2108640006 (	PALACE ROAD EXT	21H047	BOSTON PROPER	24		MUDDY RIVER	FRESH
21HSDO048	2108640004	EASEMENT/FENWAY/EVANS WAY	21H048	BOSTON PROPER	15		MUDDY RIVER	FRESH
21KSDO069	2111640007	125' NORTH OF W.FOURTH STREET (RELOCATED BY CA/T)	21K069	BOSTON PROPER	48		FORT POINT CHANNEL	MARINE
23HSDO040	2308640004	RALEIGH STREET EXT	23H040	BOSTON PROPER	24		CHARLES RIVER	FRESH
23LSDO15	2312640010	NORTHERN AVE	23L015	SOUTH BOSTON	24		BOSTON INNER HARBOR	MARINE
23LSDO074	2312640006	SUMMER ST BRIDGE	23L074	SOUTH BOSTON	15		FORT POINT CHANNEL	MARINE
24DSDO032	2404640004	N OF BEACON ST, ABOUT 800' E OF PARSONS ST	24D032	ALLSTON/BRIGHTON	119X130	1 / 24D032-18	CHARLES RIVER	FRESH
24DSDO150	2404640003	SOLDIERS FIELD PLACE	24D150	ALLSTON/BRIGHTON	36		CHARLES RIVER	FRESH
24GSDO035	2407640002	SOLDIERS FIELD ROAD/BABCOCK ST	24G035	ALLSTON/BRIGHTON	90X84		CHARLES RIVER	FRESH
25ESDO037	2505640001	EASEMENT/TELFORD ST	25E037	ALLSTON/BRIGHTON	66		CHARLES RIVER	FRESH
25MCSO005	2513640001	Porzio Park II	25MCSO005DR	EAST BOSTON	24" x 27"		Inner Harbor- Lower	Marine
26FSDO038	2606640001	HARVARD ST EXT	26F038	ALLSTON/BRIGHTON	36		CHARLES RIVER	FRESH
26JSDO052	2610640003	MONSIGNOR O'BRIEN HWY	26J052	BOSTON PROPER	12		CHARLES RIVER	FRESH
26KSDO050	2611640023	NASHUA ST		BOSTON PROPER	36		CHARLES RIVER	MARINE
26KSDO052	2611640009	COMMERCIAL STREET AT CHARTER ST		BOSTON PROPER	16x24?		CHARLES RIVER	MARINE
26KSDO099	2611640003	CHELSEA ST EXT (JOINER ST)	26K099	CHARLESTOWN	84		CHARLES RIVER	MARINE
26KSDO254	2611640005	EASEMENT		CHARLESTOWN	36		CHARLES RIVER	MARINE
26LSDO70	2612640007	HANOVER STREET EXT	26L070	BOSTON PROPER	36		BOSTON INNER HARBOR	MARINE
26LSDO106	2612640009	NEAR BATTERY WHARF	26L055	BOSTON PROPER	24x24		BOSTON INNER HARBOR	MARINE
27JSDO044	2710640001	PRISON POINT BRIDGE	27J044	CHARLESTOWN	15		MILLERS RIVER	MARINE
27JSDO096	2710640004	EASEMENT/INTERSTATE 93	27J096	CHARLESTOWN	54		MILLERS RIVER	MARINE
28LSDO073	2812640001	EASEMENT/4TH ST - NAVY YARD	28L073	CHARLESTOWN	6		LITTLE MYSTIC CHANNEL	MARINE
28NSDO156	2814640001	COLERIDGE ST EXT	28N156	EAST BOSTON	12		BOSTON HARBOR	MARINE
29JSDO029	2910640003	ALFORD STREET/RYAN PLGD. EXT	29J029	CHARLESTOWN	15		MYSTIC RIVER	MARINE
29JSDO129	2910640002	ALFORD STREET	29J129	CHARLESTOWN	15		MYSTIC RIVER	MARINE
29NSDO015	2914640001	CHELSEA STREET	29N015	EAST BOSTON	42X44.5	1 / 015-1	CHELSEA RIVER	MARINE
29PSDO005	2916640008	BELLE ISLE MARSH (SARATOGA ST)		EAST BOSTON			BELLE ISLE INLET	MARINE
30JSDO19	3010640002	ALFORD ST	30J019	CHARLESTOWN	15		MYSTIC RIVER	MARINE
30PSDO62	3016640002	PALERMO AVE EXT	30P062	EAST BOSTON	12		WETLANDS	MARINE
30PSDO107	3016640001	WALDEMAR AVENUE	30P107	EAST BOSTON	15		WETLANDS	MARINE
31PSDO84	3116640001	EASEMENT/BENNINGTON ST	31P084	EAST BOSTON	30		BELLE ISLE INLET, REVERE	MARINE

Appendix B
Table B-2
2023 Outfall Screening and Sampling
List of Approved Interconnections - Wet Weather

Manhole 6 Digit ID	Manhole Facility ID	Manhole Feature ID	Street Location	Drainage Area	Outfall No.	Neighborhood	Size (inches) of largest pipe inlet	Receiving Water	Fresh/ Marine	Commission Comments
02F120	2FMH120	206660110	Neponset Valley Parkway		DCR 02F099	Hyde Park	15	DCR Drain to Neponset	Fresh	Discharges to DCR Outfall 02F099
06C117	6CMH117	603660086	Washington Street near Meshaka Street			West Roxbury	12	Dedham Drains	Fresh	Drains to Dedham
11B049	11BMH49	1102660014	VFW Pkwy @ Glenham Street		DCR 11B028	West Roxbury	15	DCR Drain to Charles	Fresh	Discharges to DCR Outfall 11B028
12L304	12LMH304	1212660005	Tenean Street	13L137		Dorchester	30	DCR Drain to Dorchester Bay	Marine	Discharges to DCR drain
12L374	12LMH374	1212660256	Conley Street	12L296	MDOT 12L296	Dorchester	36	DOT Drain to Dorchester Bay	Marine	Discharges to MDOT Outfall 12L296
14E036	14EMH36	1405660029	Payson Road @ Hackensack Road			West Roxbury	12	Brookline Drains	Fresh	Drains to Brookline
20D062	20DMH62	2004660026	Kilsyth at Englewood	20DMH055		Brighton	12	Brookline Drains	Fresh	Drains to Brookline
21E086	21EMH86	2105660076	Village Brook-Cummings	21EMH086		Brighton	15	Brookline Drains to Village Brook	Fresh	Drains to Brookline
23H081	23HMH81	2308660073	Beacon Street		23I019	Back Bay	12	DCR Drain to Muddy River	Fresh	Drains to Muddy River DCR outfall
28I015	28IMH15	2809660012	Roland Street			Charlestown	12	Somerville Drains	Fresh	Drains to Somerville

Appendix B
Table B-3
2023 Outfall Screening and Sampling
List of Approved Combined Sewer Overflow (CSO) Outfalls - Wet Weather

Outfall Facility ID	Outfall Feature ID	BOS ID	Street Location	Neighborhood	Size (inches)	Receiving Water	Class	Fresh/ Marine
19LCSO085	1.913E+09	BOS 085	Carson Beach	South Boston		Dorchester Bay-North	SB	Marine
19NCSO081	1.915E+09	BOS 081	Farragut Rd at Columbia Rd	South Boston		Dorchester Bay-North	SB	Marine
22KCSO072	2.212E+09	BOS 072	Dorchester Ave	South Boston	60"	Inner Harbor-Fort Point Channel	SB-CSO	Marine
24LCSO060	2.413E+09	BOS 060	Aquarium	Central	72" x 72"	Inner Harbor-Upper	SB-CSO	Marine
24NCSO003	2.415E+09	BOS 003	Harborside Dr	East Boston	144" x 120"	Inner Harbor- Lower	SB-CSO	Marine
25LCSO057	2.513E+09	BOS 057	Eastern Ave	Central	96"	Inner Harbor-Upper	SB-CSO	Marine
27LCSO010	2.713E+09	BOS 010	Border St at Decatur St	East Boston	60"	Inner Harbor-Upper	B-CSO	Marine
28LCSO019	2.813E+09	BOS 019	Mystic River Bridge	Charlestown	36" x 40"	Inner Harbor-Upper	SB-CSO	Marine
29JCSO017	2.911E+09	BOS 017	Schraffts Center Harborwalk	Charlestown	63"	Inner Harbor-Mystic/Chelsea	SB-CSO	Marine
29NCSO014	2.915E+09	BOS 014	E Eagle St	East Boston	48" x 60"	Inner Harbor-Mystic/Chelsea	SB-CSO	Marine

APPENDIX C

Recommendations for Locations with Standing Water

Appendix C
Table C-1
2020 Wet Weather Screening
Recommendations for Locations Historically Unable to Sample due to Standing Water

Recommendation	Outfall ID	Comments
CLEAN	2FSDO93	Small area with standing water throughout
	6DSDO86	Small catchment with just a couple of catch basins that always have standing water
	6DSDO91	Small catchment with just a couple of catch basins that always have standing water
	12HSDO1 (12HMH26)	SE branch: likely has standing water all the way to the starter. Floatables observed
	12HSDO1 (12HMH27)	NW branch: standing water/floatables observed
	23HSDO042	Entire area has a lot of standing water. All buildings were dye tested to complete the catchment investigation.
	23HMH81	Standing water all the way up to the starter
	28IMH15	Standing water all the way up to the starter
CCTV	6DSDO184	Upstream features have never been located; mapping is likely incorrect. Attempt to CCTV from the outfall upstream to locate upstream structures.
CONTINUE UPSTREAM	26FSDO038	Continue upstream until eventually hit a spot that is either dry or flowing
	3ESDO186	Continue upstream

APPENDIX D

Outfall Screening Form (Blank)

Boston Water and Sewer Commission

OUTFALL SCREENING LOG

FACILITY ID

CITYWIDE ILLEGAL CONNECTION INVESTIGATION PROGRAM, PHASE 5

INSPECTION DATE:

STREET LOCATION:

FEATURE ID:

RECEIVING WATER:

OUTFALL FIELD SCREENING PROGRAM

CONDITION ASSESSMENT

Inspector Company:

Inspector(s):

Needs to Be Repaired:

Needs to Be Cleaned:

Pipe Material:

Other:

Pipe Shape:

Other:

Bar Screen-Needs to Be Cleared:

Bar Screen-Broken/Missing/Deteriorated:

Head wall-Corrode/Pitted/Spalled:

Pipe End-Debris/Deposition:

Pipe End-Broken/Collapsed:

Rip-Rap/Channel or Basin-Debris/Deposition:

Rip-Rap/Channel or Basin-Broken/Missing:

Tide Gate-Broken/Missing:

Comments:

PHOTOS

Report Date:

SCREENING AND SAMPLING

GENERAL INFORMATION:

Inspection Type:
Weather:
Air Temp:
Tidal Impact:

Time of Inspection:
Time Since Last Rain:
Qty of Rain Last 24 hours:
If Tidal, Time of Closest Low Tide:

VISUAL OBSERVATIONS AT OUTFALL:

Outfall Located:
Outfall Accessible:
Outfall Sign:
Is there Flow:
If Flow, Velocity:
Submerged:
Sampling Location:
Approx. Sediment Depth:
Approx. Depth Water and Sediment:
Odor:
Other:
Color:
Other:
Turbidity:
Floatables:
Other:
Deposit/Stain:
Other:

FIELD ANALYSIS INFORMATION:

Were Samples Collected:
If No, Reason:
Other Reason No Sample:
pH:
Ammonia:
Temperature:
Surfactants:
Specific Conductivity:
Salinity:
Total Residual Chlorine:
Orthophosphate:

LAB ANALYSIS INFORMATION:

Bacteria Type:
Bacteria Result: **(CFU/100mL)**
Bacteria Duplicate Sample Collected:
Bacteria Duplicate Sample Collected Results: **(CFU/100mL)**
Total Phosphorous: **mg/L**
Phosphorus Duplicate Sample Collected:
Phosphorus Duplicate Sample Collected Results: **mg/L**

COMMENTS:

Report Date:

APPENDIX E

SDE Health and Safety Plan

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1.0 General Safety

While in the office or out in the field, all SDE personnel are to refrain from using horseplay and distracting others. Horseplay, scuffling, distraction of fellow workers, throwing of objects, running, and practical jokes may lead to serious injuries. Possession, consumption, or being under the influence of alcohol or drugs is also prohibited during working hours.

- Conduct a daily site hazard review each morning. Document the review using the Daily Hazard Review Meeting survey.
- Conduct an equipment check each morning. Document any issues found using the Daily Hazard Review Meeting survey. Tools, equipment, and supplies should be in good working order without any noticeable signs of damage or structural wear. If damage or wear is noticed a supervisor should be notified and equipment should be replaced prior to use.
- Conduct a check on all personal protective equipment to be used each morning. Document the check using the Daily Hazard Review Meeting survey. If any issues are found a supervisor should be notified. Personal protective equipment should be replaced before use.
- Site work should be performed during daylight hours whenever possible. Work conducted during hours of darkness require enough illumination intensity to read a newspaper without difficulty.
- Good housekeeping must be maintained at all times in all project work areas.
- Common paths of travel should be established and kept free from the accumulation of materials.
- Tools, equipment, materials, and supplies shall be stored in an orderly manner.
- As work progresses, scrap and unessential materials must be neatly stored or removed from the work area.

If unsafe conditions are present, SDE personnel have authority to stop work immediately. Hazardous conditions should be reported to supervisor as soon as it can be done safely.

2.0 Personal Security and Crime Prevention

While conducting your work stay alert, become familiar with your surroundings, report any activity/circumstances that you feel is unusual and always stay in frequent contact with other project personnel. Use the following to help protect yourself from danger while in/out of your vehicle, working alone or in an unsafe area:

- Avoid working alone as much as possible.
- When working at night on the project, plan for extra precautions such as additional lighting, security, police presence or escorts when leaving the project.
- If you are a witness or the victim of a crime, an accident or suspicious/threatening circumstances, report it to the Police as soon as possible.

- Always lock your car doors while driving, and roll windows up far enough to keep anyone from reaching inside.
- At stop signs and lights keep the car in gear, windows rolled up, doors locked and stay alert.
- Travel well-lighted, busy streets. You can spare those extra minutes it may take to avoid an unsafe area.
- Keep your wallet/purse, laptop, and other valuable out of sight, even when you are driving in your locked car.
- Park in safe, well-lighted areas near your destination.
- Always let a project member know where you are and your destination if you must travel alone.
- Always lock your car, even for a short absence. And before unlocking your car, quickly check to make sure no one is hiding on your seats or floors of your vehicle.
- If your car should break down:
  - Get off the roadway, out of the path of oncoming traffic, even if you have to drive on a flat tire. The tire is replaceable.
  - Turn on your emergency flashers.
  - If a motorist stops to render assistance, it is better to remain in the car, and ask them to get help.
  -

3.0 Working Alone

Working alone may not be hazardous in itself, but the work conditions or tasks to be performed on a project site may affect a person's ability to safely perform the work alone or to receive assistance in the event of an emergency.

Personnel can be assigned to work alone only by their project manager, who must assess potential hazards and appropriate control measures.

Listed below are some examples, not all-inclusive, of workplace conditions that must be considered and impact the ability of the employee to safely work alone:

- Is the amount of time needed for the employee to complete the task reasonable, or will fatigue become a factor?
- Do tasks include handling and lifting materials; operating machinery or powered tools; maintaining electrical, pneumatic, or steam powered systems; or working with hazardous substances?
- Is access to the work area difficult, requiring working at heights, below ground, or in structures that are difficult to enter or exit?

- Does the work location present a risk of violence to the employee; require travel off public roads through desolate or steep terrain; or involve work at a remote location or over or near rivers, pools, or lakes?
- What are the environmental conditions, such as temperature extremes or weather conditions?
- Must the work be performed beyond normal business hours or on weekends or holidays?
- Is the person working alone able to communicate with another employee in the event of an emergency or are emergency services readily available?

Examples (not all-inclusive) of precautionary or control measures that can be used to address the conditions or hazards of working alone:

- Conducting a review of the work schedule to determine whether the task could be completed during a time when the employee does not have to work alone.
- Establishing a communication process that will reliably allow contact with the employee working alone, requires check-in at designated time intervals, includes response actions when communication is lost or check-in is not completed, and verifies the employee has returned to their base of operation after completing the task.
- Requiring supervisors to periodically visit and observe worksites where employees work alone.
- Issuing the proper personal protective equipment (PPE) to the employee and ensure it is maintained in acceptable condition.
- Ensuring emergency supplies are provided for employee to use in event of fire, injury/illness, or survival provisions when working in a remote area.

4.0 Personal Protective Equipment

- Long pants, safety shoes (steel toe with non-skid soles), and safety vests are to be worn at all work sites unless specifically instructed otherwise.
- Hard hats to be worn in all construction zones although none are anticipated to be encountered during this project.
- Latex gloves are to be used when handling bacteria samples.
- Conduct a daily check of all PPE to be used to ensure it is in good condition. If anything is not in good working order it should be replaced before use. Checks should include:
    - Check latex gloves to ensure that they are not damaged. Check for holes, yellowing or other defects.
    - Check work gloves to ensure there is no noticeable damage including holes or fraying.
    - Check safety vest to ensure that they are clean, and that reflective material is not damaged.
    - Check safety cones for structural damage. Also check the reflective material to ensure it is in good condition and not damaged, discolored or peeling off.

- Check expiration date on bug spray.
- Check expiration date on Tecnu.

5.0 Cold Stress

- Be aware of the symptoms of cold-related disorders, and wear proper, layered clothing for the anticipated fieldwork. Appropriate rain gear is a must in cool weather.
- Monitor the work conditions and adjust the work schedule as needed.

6.0 Heat Stress

- Drink 16 ounces of water before beginning work. Under severe conditions, drink 1 to 2 cups every 20 minutes, for a total of 1 to 2 gallons per day. Do not use alcohol in place of water or other nonalcoholic fluids. Decrease your intake of or avoid consumption of coffee, carbohydrate-rich beverages, and caffeinated soft drinks during working hours.
- Acclimate yourself by slowly increasing workloads (e.g., do not begin with extremely demanding activities).
- Conduct field activities in the early morning or evening and rotate shifts of workers, if possible.
- Avoid direct sun whenever possible, which can decrease physical efficiency and increase the probability of heat stress. Take regular breaks in a cool, shaded area.

7.0 Roadway Work Safety

Work along/in roadways must be done according to local/state/federal requirements.
The following precautions must be taken when working around traffic:

- Exercise caution when exiting traveled way or parking along street – avoid sudden stops, use flashers, etc.
- Park in a manner that will allow for safe exit from vehicle, and where practicable, park vehicle so that it can serve as a barrier.
- All staff working adjacent to traveled way or within work area must wear the appropriate ANSI/ISEA 107-2004 high-visibility safety vests.
- Remain aware of factors that influence traffic related hazards and required controls – sun glare, rain, wind, flash flooding, limited sight-distance, hills, curves, guardrails, width of shoulder (i.e., breakdown lane), etc.
- Always remain aware of an escape route -- behind an established barrier, parked vehicle, guardrail, etc.
- Always pay attention to moving traffic – never assume drivers are looking out for you
- Work as far from traveled way as possible to avoid creating confusion for drivers.

- When workers must face away from traffic, a “buddy system” should be used, where one worker is looking towards traffic.
- Review traffic control devices to ensure that they are adequate to protect your work area. Traffic control devices should: 1) convey a clear meaning, 2) command respect of road users, and 3) give adequate time for proper traffic response. The adequacy of these devices are dependent on limited sight distance, proximity to ramps or intersections, restrictive width, duration of job, and traffic volume, speed, and proximity.

8.0 Driving Safety

- Abide by all traffic laws.
- Seat belts must be worn at all times.
- Although utilizing cell phones while driving is discouraged, hands-free cell phone devices may be used when necessary. The use of hand held cell phones are strictly prohibited while driving.
- Practice defensive driving. Defensive driving starts from the moment you get behind the wheel. Always be alert to the hazards around you, including changing weather. Driving defensively means taking every possible precaution to avoid an accident, despite the hazards around you.
- Inspect your vehicle before a trip. Make sure tires are properly inflated and loads are securely tied down.
- Eliminate or reduce hazards whenever possible. Make sure that no loose items are on the dashboard or by your feet, or that items are not piled to high on seats or floors.
- Keep a safe distance from the vehicle in front of you.
- Let problem drivers move ahead of you. Do not challenge them.
- Use extra caution when driving in the winter. Clear all snow and ice from the vehicle before driving, leave plenty of room for stopping, and drive slow.
- All vehicles must be equipped with basic emergency response and safety equipment including:
  - Potable water
  - First aid kit
  - Flashlight with extra batteries
  - Anti-bacterial wipes, gel, or solution
  - Minimal personal protective equipment necessary for work at the destination, appropriate for the expected exposures

9.0 Confined Space Awareness

SDE field staff has had training in confined space awareness. Although this project does not require confine space entry, the awareness training was completed in case of an emergency situation.

10.0 Slip and Fall Protection

- Portable ladder safety: always maintain a 3-point (two hands and a foot, or two feet and a hand) contact on the ladder when climbing. Keep your body near the middle of the step and always face the ladder while climbing. Ladders must be free of any slippery material on the rungs, steps or feet. Use a ladder only on a stable and level surface, unless it has been secured (top or bottom) to prevent displacement. An extension or straight ladder used to access an elevated surface must extend at least 3 feet above the point of support. Do not stand on the three top rungs of a straight, single or extension ladder. The proper angle for setting up a ladder is to place its base a quarter of the working length of the ladder from the wall or other vertical surface. Be sure that all locks on an extension ladder are properly engaged.
- Wear shoes with non-slip soles and be particularly careful when walking on slick or icy surfaces during the winter. Extra care should also be taken to prevent slip and fall accidents when going on roofs and/or standing over open manholes.
- Employees walking in ditches, swales and other drainage structures adjacent to roads or across undeveloped land must use caution to prevent slips and falls which can result in twisted or sprained ankles, knees, and backs.
- Whenever possible observe the conditions from a flat surface and do not enter a steep ditch or side of a steep road bed.
- If steep terrain must be negotiated, sturdy shoes or boots that provide ankle support should be used. The need for ladders or ropes to provide stability should be evaluated.

11.0 Manual Lifting

- Proper lifting techniques must be used when lifting any object.
- Plan storage and staging to minimize lifting or carrying distances.
- Split heavy loads into smaller loads.
- Use mechanical lifting aids whenever possible.
- Have someone assist with the lift -- especially for heavy or awkward loads.
- Make sure the path of travel is clear prior to the lift.

12.0 Working Around Untreated Wastewater

When working around untreated wastewater, employees should exercise the following precautions:

- Do not eat or drink.
- Minimize contact with surfaces.

- Don’t touch eyes, ears, nose and mouth.
- Wash hands immediately upon leaving the site or going into office areas or vehicles. Ensure that adequate washing facilities are available for employees. For situations where hand washing facilities are not readily available, antibacterial hand gels can be used to prevent the spread of germs.
- If touching contaminated surfaces is unavoidable, wear surgical-type nitrile gloves. Carefully remove gloves by rolling them inside out, and wash hands immediately.
- Avoid shaking hands with other employees, and maintain a distance of approximately 3 feet during conversations to avoid spread of colds, flu and other contagious diseases.

13.0 Dog Safety

- Avoid all dogs – both leashed and stray.
- Don't disturb a dog while it is sleeping, eating, or caring for puppies.
- If a dog approaches to sniff you, stay still and do not reach out to the dog as it may be interpreted as an act of aggression.
- An aggressive dog has a tight mouth, flattened ears, and a direct stare.
- If you are threatened by a dog, remain calm, don't scream, and avoid direct eye contact.
- If you say anything, speak calmly and firmly.
- Don't turn and run. Try to stay still until the dog leaves, or back away slowly until the dog is out of sight or you have reached safety (e.g., vehicle, outside a gated/fenced area).
- If attacked, retreat to vehicle or attempt to place something between you and the dog.
- If you fall or are knocked to the ground, curl into a ball with your hands over your head and neck, and protect your face.
- If bitten, immediately scrub the bite site vigorously with soap and water, seek medical attention as soon as possible, and report the incident to the local authorities.

14.0 COVID-19 Pandemic

Per CDC and OSHA guidelines as of 04/15/2020.

- Stay home if sick.
- Leave the office or project site immediately and report this to supervisor via phone, text or email if flu-like symptoms are experienced.
- Stay home and inform supervisor if anyone in your household or visitors to your household have travelled to any country which has resulted in a government entity instructing them to self-quarantine within the past 14 days.

- Stay home if anyone in your household or anyone you've been in close contact with in the last 14 days is experiencing flu-like symptoms.
- Take temperature prior to leaving home. Stay home if recorded temperature is 100.3 or higher.
- Maintain a minimum of a six-foot social distance from other individuals. This includes holding meetings outside and limit the number of individuals inside project offices or trailers to ensure social distancing is always maintained.
- Wash hands frequently with soap and water or an alcohol-based sanitizer. At a minimum, this should be done at the beginning of each shift, after using the restroom, after coughing or sneezing, and prior to eating. Wash hands more frequently if you handle any items that are shared or communal items such as tools and equipment, plans, or other shared resources.
- Wear PPE when on site with other individuals. PPE includes Nitrile gloves, safety goggles and cloth mask covering nose and mouth.
- Rigorously clean all frequently touched surfaces throughout the workday. Use cleaning products typically used in these areas and follow directions on the product labels.
- Avoid touching eyes, nose and mouth with unwashed hands.
- Acknowledge and follow any additional requirements set forth by the Client.

15.0 Emergency Contacts

SDE will develop a project specific emergency contact plan. The template below will be utilized.

Medical Emergency	911		
Fire/Spill Emergency	911	Boston FD	617-343-3550
Security and Police	911	Boston PD	617-343-4200
Utilities Emergency			
Water/Sewer		BWSC	617-989-7000
Gas		NSTAR Gas	800-592-2000
Electric		NSTAR Electric	800-592-2000

16.0 Hospital Contact Information and Directions

Hospital Name/Address: Boston Medical Center
One Boston Medical Center Place
Boston, MA 02118

Hospital Phone #: 617-638-8000

Directions to the Hospital

Access by Car

From the North:
1. Follow Route 1 (Via Mystic/ Tobin Bridge) to Route 93 South.
2. Take Exit 18 (Mass Ave).
3. At traffic light, take right onto access road; stay in right lane.
4. At end of access road, turn right onto Massachusettes Ave.

For directions to your BUMC/BMC destination, please follow signs.

From the South:
1. Take Expressway North (Route 93/3).
2. Take Exit 18.
3. At the third traffic light, take left onto access road stay in right lane.
4. At end of access road, turn right onto Massachusetts Ave.

For directions to your BUMC/BMC destination, please follow signs.

From the West:
1. Take the Massachusetts Turnpike (Route 90) East to end.
2. Take Expressway South (Route 93).
3. Take Exit 18 (Mass Ave.).
4. At traffic light, take right onto access road; stay in the right lane.
5. At end of access road, turn right onto Massachusetts Ave.

For directions to your BUMC/BMC destination, please follow signs.

From Logan Airport:
1. Go through the Sumner Tunnel (Route 1A South) to Expressway South.
2. Take Expressway South (Route 93.)
3. Take Exit 18 (Mass Ave.)
4. At the traffic light, take right onto access road; stay in right lane.
5. At end of access road, turn right onto Massachusetts Ave.

17.0 Signatures

First Name (Print)	Last Name (Print)	Signature	Date

APPENDIX C. DRY WEATHER SCREENING RESULTS JANUARY 1, 2023 THROUGH DECEMBER 31, 2023

Updated: 1/17/2024

GENERAL INFORMATION												
Facility ID	Location Type	Inspection Date	Outfall Sign	Tidal Impact	Outfall Located	Outfall Accessible	Weather	Air Temp F	Time Since Last Rain	Quantity Rain24h	Time Low Tide	Sampling Location
01ESDO24	SDO	5/10/2023, 12:37 PM	No	No	Yes	Yes	Sunny	70	> 24 Hours	< 0.1 in.		Manhole
01FSDO31	SDO	5/10/2023, 12:48 PM	No	No	No	No	Sunny	68	> 24 Hours	< 0.1 in.		Manhole
02ESDO5	SDO	5/10/2023, 12:27 PM	No	No	Yes	Yes	Sunny	68	> 24 Hours	< 0.1 in.		Outfall
02FMH120	Interconnection	6/12/2023, 10:27 AM										Manhole
02FSDO120	SDO	5/17/2023, 11:14 AM	No	No	Yes	Yes	Sunny	54	> 24 Hours	< 0.1 in.		Outfall
02FSDO85	SDO	1/19/2023, 12:23 PM	No	No	Yes	Yes	Cloudy	41	> 24 Hours	< 0.1 in.		Manhole
02FSDO93	SDO	5/17/2023, 11:23 AM	No	No	No	No	Sunny	56	> 24 Hours	< 0.1 in.		Manhole
03ESDO185	SDO	3/30/2023, 11:26 AM	Yes	No	Yes	Yes	Sunny	38	> 24 Hours	< 0.1 in.		Outfall
03ESDO186	SDO	5/17/2023, 12:37 PM	No	No	No	No	Sunny	59	> 24 Hours	< 0.1 in.		Manhole
03ESDO207	SDO	1/19/2023, 10:12 AM	No	No	Yes	Yes	Cloudy	37	> 24 Hours	< 0.1 in.		Outfall
03FMH56	Interconnection	3/30/2023, 8:59 AM										Manhole
04ESDO64	SDO	1/19/2023, 10:01 AM	No	No	Yes	Yes	Cloudy	37	> 24 Hours	< 0.1 in.		Outfall
04ESDO69	SDO	3/30/2023, 10:53 AM	Yes	No	Yes	Yes	Sunny	35	> 24 Hours	< 0.1 in.		Manhole
04FMH90	Interconnection	3/30/2023, 9:31 AM										Manhole
04FSDO1	SDO	1/19/2023, 8:17 AM	No	No	No	Yes	Cloudy	34	> 24 Hours	< 0.1 in.		Manhole
04FSDO118	SDO	5/11/2023, 1:01 PM	No	No	Yes	Yes	Sunny	78	> 24 Hours	< 0.1 in.		Outfall
04FSDO119	SDO	5/11/2023, 1:21 PM	No	No	Yes	Yes	Sunny	78	> 24 Hours	< 0.1 in.		Manhole
04FSDO16	SDO	5/17/2023, 1:26 PM	No	No	Yes	Yes	Sunny	61	> 24 Hours	< 0.1 in.		Manhole
04FSDO189	SDO	1/19/2023, 8:42 AM	Yes	No	Yes	Yes	Cloudy	35	> 24 Hours	< 0.1 in.		Manhole
04FSDO203	SDO	5/11/2023, 1:14 PM	No	No	Yes	Yes	Sunny	78	> 24 Hours	< 0.1 in.		Outfall
04FSDO204	SDO	3/30/2023, 10:50 AM	No	No	No	No	Sunny	35	> 24 Hours	< 0.1 in.		Manhole
05CSDO110	SDO	2/20/2023, 9:02 AM	No	No	Yes	Yes	Cloudy	50	> 24 Hours	< 0.1 in.		Outfall
05ESDO180	SDO	2/20/2023, 9:41 AM	Yes	No	Yes	Yes	Cloudy	50	> 24 Hours	< 0.1 in.		Outfall
05ESDO181	SDO	2/20/2023, 9:47 AM	Yes	No	Yes	Yes	Cloudy	50	> 24 Hours	< 0.1 in.		Catch Basin
05ESDO182	SDO	5/31/2023, 12:46 PM	Yes	No	Yes	Yes	Sunny	60	> 24 Hours	< 0.1 in.		Manhole
05ESDO183	SDO	1/19/2023, 11:53 AM	Yes	No	Yes	Yes	Cloudy	39	> 24 Hours	< 0.1 in.		Manhole
05ESDO184	SDO	5/31/2023, 1:33 PM	No	No	Yes	Yes	Sunny	60	> 24 Hours	< 0.1 in.		Manhole
05FSDO117	SDO	4/20/2023, 11:24 AM	Yes	No	Yes	Yes	Sunny	58	> 24 Hours	< 0.1 in.		Outfall
05FSDO244	SDO	2/20/2023, 2:14 PM	Yes	No	Yes	Yes	Cloudy	61	> 24 Hours	< 0.1 in.		Manhole
05FSDO245	SDO	2/20/2023, 1:40 PM	Yes	No	Yes	Yes	Sunny	58	> 24 Hours	< 0.1 in.		Manhole
05FSDO253	SDO	4/20/2023, 11:47 AM	No	No	No	No	Sunny	59	> 24 Hours	< 0.1 in.		Manhole
05FSDO254	SDO	2/20/2023, 1:04 PM	No	No	Yes	Yes	Cloudy	60	> 24 Hours	< 0.1 in.		Outfall
05GSDO112	SDO	2/20/2023, 12:51 PM	No	No	No	No	Cloudy	91.5	> 24 Hours	< 0.1 in.		Catch Basin
05GSDO115	SDO	2/20/2023, 12:16 PM	No	No	Yes	Yes	Cloudy	60	> 24 Hours	< 0.1 in.		Outfall
05GSDO116	SDO	6/12/2023, 11:05 AM	No	No	Yes	Yes	Sunny	74	> 24 Hours	< 0.1 in.		Outfall
05GSDO116A	SDO	3/13/2023, 1:01 PM	Yes	No	Yes	Yes	Cloudy	39	> 24 Hours	< 0.1 in.		Outfall
06CMH117	Interconnection	6/12/2023, 8:42 AM										Manhole
06DMH97	Interconnection	6/12/2023, 9:04 AM										Manhole
06DSDO187	SDO	6/12/2023, 9:20 AM	No	No	Yes	No	Cloudy	68	> 24 Hours	< 0.1 in.		Manhole
06DSDO57	SDO	4/19/2023, 1:10 PM	No	No	No	No	Cloudy	50	> 24 Hours	< 0.1 in.		Manhole
06DSDO83	SDO	2/20/2023, 12:00 PM	Yes	No	Yes	Yes	Cloudy	54	> 24 Hours	< 0.1 in.		Outfall
06DSDO84	SDO	1/19/2023, 11:39 AM	No	No	No	No	Cloudy	39	> 24 Hours	< 0.1 in.		Manhole
06DSDO85	SDO	1/19/2023, 11:44 AM	Yes	No	Yes	Yes	Cloudy	39	> 24 Hours	< 0.1 in.		Outfall
06DSDO86	SDO	2/20/2023, 10:30 AM	Yes	No	Yes	Yes	Cloudy	50	> 24 Hours	< 0.1 in.		Catch Basin
06DSDO91	SDO	2/20/2023, 10:34 AM	Yes	No	Yes	Yes	Cloudy	50	> 24 Hours	< 0.1 in.		Catch Basin
06FSDO233	SDO	4/19/2023, 12:37 PM	No	No	Yes	Yes	Cloudy	48	> 24 Hours	< 0.1 in.		Catch Basin
06GSDO108	SDO	2/8/2023, 10:44 AM	Yes	No	Yes	Yes	Cloudy	44	> 24 Hours	< 0.1 in.		Outfall
06GSDO109	SDO	2/8/2023, 11:30 AM	Yes	No	Yes	Yes	Cloudy	44	> 24 Hours	< 0.1 in.		Manhole
06GSDO110	SDO	2/8/2023, 11:49 AM	Yes	No	Yes	Yes	Sunny	44	> 24 Hours	< 0.1 in.		Outfall
06GSDO111	SDO	2/8/2023, 12:25 PM	Yes	No	Yes	Yes	Sunny	44	> 24 Hours	< 0.1 in.		Outfall
06GSDO165	SDO	2/16/2023, 11:12 AM	Yes	No	Yes	Yes	Sunny	62	> 24 Hours	< 0.1 in.		Outfall
06GSDO166	SDO	2/16/2023, 11:13 AM	Yes	No	Yes	Yes	Sunny	63	> 24 Hours	< 0.1 in.		Outfall
06HSDO106	SDO	1/19/2023, 8:30 AM	No	No	Yes	Yes	Cloudy	38	> 24 Hours	< 0.1 in.		Outfall
06HSDO107	SDO	1/19/2023, 8:40 AM	No	No	Yes	Yes	Cloudy	38	> 24 Hours	< 0.1 in.		Outfall
07CSDO006	SDO	5/31/2023, 9:26 AM	Yes	No	Yes	Yes	Sunny	60	> 24 Hours	< 0.1 in.		Outfall
07HSDO105	SDO	6/12/2023, 11:39 AM	No	No	Yes	Yes	Sunny	74	> 24 Hours	< 0.1 in.		Outfall
07HSDO285 (7HMH104)	SDO	6/12/2023, 2:40 PM	No	No	No	No	Sunny	74	> 24 Hours	< 0.1 in.		Manhole
07HSDO285 (8HMH433)	SDO	6/12/2023, 2:21 PM	No	No	No	No	Sunny	74	> 24 Hours	< 0.1 in.		Manhole
07HSDO346	SDO	1/19/2023, 8:53 AM	No	No	Yes	Yes	Cloudy	38	> 24 Hours	< 0.1 in.		Outfall
07HSDO347	SDO	1/19/2023, 9:01 AM	No	No	Yes	Yes	Cloudy	38	> 24 Hours	< 0.1 in.		Outfall
07HSDO348 (7HMH328)	SDO	3/9/2023, 1:24 PM	Yes	No	Yes	Yes	Sunny	46	> 24 Hours	< 0.1 in.		Manhole
07HSDO348 (7HMH333)	SDO	3/9/2023, 12:49 PM	Yes	No	Yes	Yes	Sunny	46	> 24 Hours	< 0.1 in.		Manhole
08BSDO122	SDO	2/2/2023, 10:23 AM	Yes	No	Yes	Yes	Sunny	32	> 24 Hours	< 0.1 in.		Manhole
08BSDO126	SDO	2/2/2023, 9:59 AM	Yes	No	Yes	Yes	Sunny	32	> 24 Hours	< 0.1 in.		Manhole
08CSDO25	SDO	2/1/2023, 10:50 AM	No	No	Yes	Yes	Sunny	27	> 24 Hours	< 0.1 in.		Manhole
08CSDO26	SDO	2/1/2023, 10:16 AM	No	No	Yes	Yes	Sunny	27	> 24 Hours	< 0.1 in.		Manhole
08ESDO31	SDO	2/1/2023, 11:35 AM	Yes	No	Yes	Yes	Sunny	28	> 24 Hours	< 0.1 in.		Outfall
08ESDO33	SDO	1/19/2023, 11:40 AM	Yes	No	Yes	Yes	Cloudy	42	> 24 Hours	< 0.1 in.		Outfall
08ESDO35	SDO	2/1/2023, 11:15 AM	No	No	Yes	Yes	Sunny	27	> 24 Hours	< 0.1 in.		Outfall
08FSDO1	SDO	1/19/2023, 10:35 AM	No	No	Yes	Yes	Cloudy	40	> 24 Hours	< 0.1 in.		Outfall
08ISDO153	SDO	1/19/2023, 8:52 AM	Yes	No	Yes	Yes	Cloudy	40	> 24 Hours	< 0.1 in.		Outfall
08ISDO154	SDO	2/2/2023, 12:21 PM	No	No	Yes	Yes	Sunny	32	> 24 Hours	< 0.1 in.		Outfall
08ISDO155	SDO	1/19/2023, 9:33 AM	Yes	No	Yes	Yes	Cloudy	39	> 24 Hours	< 0.1 in.		Outfall
08ISDO156	SDO	2/2/2023, 12:23 PM	No	No	Yes	Yes	Sunny	32	> 24 Hours	< 0.1 in.		Outfall
08ISDO158	SDO	2/2/2023, 12:52 PM	Yes	No	Yes	Yes	Sunny	32	> 24 Hours	< 0.1 in.		Outfall
08ISDO207	SDO	1/19/2023, 9:08 AM	Yes	No	Yes	Yes	Cloudy	39	> 24 Hours	< 0.1 in.		Outfall
08ISDO209	SDO	1/19/2023, 9:02 AM	Yes	No	Yes	Yes	Cloudy	39	> 24 Hours	< 0.1 in.		Outfall
08JSDO102	SDO	2/1/2023, 12:41 PM	Yes	Yes	Yes	Yes	Sunny	29	> 24 Hours	< 0.1 in.	2:35	Outfall
08JSDO103	SDO	2/2/2023, 1:29 PM	Yes	No	Yes	Yes	Sunny	32	> 24 Hours	< 0.1 in.		Outfall
08JSDO41	SDO	1/19/2023, 9:59 AM	No	No	Yes	Yes	Cloudy	39	> 24 Hours	< 0.1 in.		Outfall
08JSDO50	SDO	2/2/2023, 1:10 PM	No	No	Yes	Yes	Sunny	32	> 24 Hours	< 0.1 in.		Outfall
08KSDO49	SDO	2/1/2023, 12:51 PM	Yes	Yes	Yes	Yes	Sunny	29	> 24 Hours	< 0.1 in.	2:35	Outfall
09BSDO49	SDO	2/9/2023, 11:39 AM	No	No	Yes	Yes	Cloudy	44	> 24 Hours	< 0.1 in.		Outfall
09ESDO229	SDO	2/9/2023, 1:20 PM	No	No	No	No	Cloudy	44	> 24 Hours	< 0.1 in.		Manhole
09ESDO243	SDO	5/31/2023, 11:52 AM	No	No	Yes	Yes	Sunny	60	> 24 Hours	< 0.1 in.		Outfall
09KSDO100	SDO	5/10/2023, 10:54 AM	No	Yes	Yes	Yes	Sunny	65	> 24 Hours	< 0.1 in.	9:35	Manhole
09KSDO101	SDO	5/10/2023, 11:03 AM	No	Yes	Yes	Yes	Sunny	62	> 24 Hours	< 0.1 in.	9:35	Outfall
09KSDO16	SDO	2/1/2023, 1:11 PM	No	Yes	No	No	Sunny	29	> 24 Hours	< 0.1 in.	2:35	Manhole
09LSDO095	SDO	2/1/2023, 1:37 PM	Yes	Yes	Yes	Yes	Sunny	29	> 24 Hours	< 0.1 in.	2:35	Outfall
10BSDO15	SDO	2/15/2023, 9:31 AM	No	No	Yes	Yes	Cloudy	30	> 24 Hours	< 0.1 in.		Manhole
10LSDO094	SDO	5/10/2023, 10:25 AM	No	Yes	Yes	Yes	Sunny	64	> 24 Hours	< 0.1 in.	9:35	Outfall
10LSDO096	SDO	2/15/2023, 1:35 PM	No	Yes	Yes	Yes	Sunny	57	> 24 Hours	< 0.1 in.	12:30	Manhole
11BMH49	Interconnection	6/12/2023, 4:00 PM										Manhole
11BSDO123	SDO	2/15/2023, 9:50 AM	No	No	No	No	Cloudy	30	> 24 Hours	< 0.1 in.		Manhole
11GSDO344 (11GMH246)	SDO	2/1/2023, 11:22 AM	No	No	No	No	Sunny	25	> 24 Hours	< 0.1 in.		Manhole
11GSDO344 (11GMH249)	SDO	2/1/2023, 10:41 AM	No	No	No	No	Sunny	25	> 24 Hours	< 0.1 in.		Manhole
11ISDO577	SDO	3/9/2023, 11:46 AM	No	No	Yes	Yes	Sunny	46	> 24 Hours	< 0.1 in.		Outfall
11MSDO093	SDO	3/30/2023, 12:45 PM	Yes	Yes	Yes	Yes	Raining	35	> 24 Hours	< 0.1 in.	1:21 PM	Outfall
12BSDO10	SDO	1/19/2023, 8:13 AM	Yes	No	Yes	No	Cloudy	36	> 24 Hours	< 0.1 in.		Outfall
12BSDO124	SDO	2/9/2023, 10:46 AM	Yes	No	Yes	Yes	Cloudy	43	> 24 Hours	< 0.1 in.		Outfall
12BSDO14	SDO	1/19/2023, 8:07 AM	Yes	No	Yes	No	Cloudy	36	> 24 Hours	< 0.1 in.		Manhole
12BSDO33	SDO	2/9/2023, 11:09 AM	No	No	No	No	Cloudy	43	> 24 Hours	< 0.1 in.		Manhole
12ESDO418	SDO	2/2/2023, 11:45 AM	No	No	Yes	Yes	Sunny	33	> 24 Hours	< 0.1 in.		Outfall
12FSDO305	SDO	2/2/2023, 1:17 PM	No	No	Yes	Yes	Sunny	37	> 24 Hours	< 0.1 in.		Outfall
12HSDO1 (12HMH24)	SDO	2/16/2023, 11:13 AM	No	No	Yes	No	Sunny	61	> 24 Hours	< 0.1 in.		Manhole
12HSDO1 (12HMH29)	SDO	2/16/2023, 11:28 AM	No	No	Yes	No	Sunny	61	> 24 Hours	< 0.1 in.		Manhole
12HSDO2	SDO	2/1/2023, 11:41 AM	No	No	Yes	Yes	Sunny	29	> 24 Hours	< 0.1 in.		Outfall
12HSDO92	SDO	2/1/2023, 11:53 AM	No	No	Yes	Yes	Sunny	25	> 24 Hours	< 0.1 in.		Manhole
12LMH304	Interconnection	5/8/2023, 8:29 AM										Manhole
12LMH374	Interconnection	5/8/2023, 9:13 AM										Manhole
12LSDO092	SDO	5/11/2023, 12:12 PM	No	Yes	Yes	Yes	Sunny	77	> 24 Hours	< 0.1 in.	10:32	Outfall
12MSDO091	SDO	5/11/2023, 11:50 AM	No	Yes	Yes	Yes	Sunny	77	> 24 Hours	< 0.1 in.	10:32	Outfall
13BSDO11	SDO	2/15/2023, 1:39 PM	Yes	No	Yes	Yes	Cloudy	45	> 24 Hours	< 0.1 in.		Outfall
13DSDO077	SDO	2/1/2023, 10:34 AM	Yes	No	Yes	Yes	Sunny	24	> 24 Hours	< 0.1 in.		Outfall
13DSDO078	SDO	2/1/2023, 10:24 AM	Yes	No	Yes	Yes	Sunny	24	> 24 Hours	< 0.1 in.		Outfall
13ESDO174	SDO	1/19/2023, 9:24 AM	No	No	Yes	Yes	Cloudy	37	> 24 Hours	< 0.1 in.		Outfall
13ESDO175	SDO	2/2/2023, 10:16 AM	No	No	Yes	Yes	Sunny	31	> 24 Hours	< 0.1 in.		Outfall
13ESDO176	SDO	2/2/2023, 10:46 AM	No	No	Yes	Yes	Sunny	32	> 24 Hours	< 0.1 in.		Manhole
13FSDO11	SDO	2/1/2023, 11:43 AM	No	No	Yes	Yes	Sunny	26	> 24 Hours	< 0.1 in.		Outfall
13FSDO12	SDO	2/1/2023, 11:45 AM	No	No	Yes	Yes	Sunny	26	> 24 Hours	< 0.1 in.		Outfall
13FSDO95	SDO	2/2/2023, 12:52 PM	No	No	Yes	Yes	Sunny	32	> 24 Hours	< 0.1 in.		Manhole
13FSDO96	SDO	1/19/2023, 10:10 AM	No	No	Yes	Yes	Cloudy	38	> 24 Hours	< 0.1 in.		Outfall
13FSDO97	SDO	1/19/2023, 10:08 AM	No	No	Yes	Yes	Cloudy	37	> 24 Hours	< 0.1 in.		Outfall
13LSDO090	SDO	2/16/2023, 12:34 PM	Yes	Yes	Yes	Yes	Cloudy	64	> 24 Hours	< 0.1 in.	1:33 PM	Outfall
14CSDO9	SDO	1/19/2023, 11:46 AM	No	No	Yes	Yes	Cloudy	37	> 24 Hours	< 0.1 in.		Manhole
14EMH36	Interconnection	1/19/2023, 9:50 AM										Manhole
15FSDO288	SDO	2/2/2023, 9:51 AM	No	No	Yes	Yes	Sunny	7.97	> 24 Hours	< 0.1 in.		Outfall
15LSDO088	SDO	2/16/2023, 1:09 PM	Yes	Yes	Yes	Yes	Cloudy	6.2	> 24 Hours	< 0.1 in.	1:33 PM	Outfall
15LSDO089	SDO	2/16/2023, 1:29 PM	No	Yes	Yes	No	Cloudy	65	> 24 Hours	< 0.1 in.	1:33 PM	Manhole
16LSDO097	SDO	2/1/2023, 1:36 PM	No	Yes	Yes	Yes	Sunny	30	> 24 Hours	< 0.1 in.	2:35	Outfall
16LSDO122	SDO	5/11/2023, 11:51 AM	No	Yes	Yes	Yes	Sunny	77	> 24 Hours	< 0.1 in.	10:32	Outfall
17FSDO12	SDO	2/2/2023, 12:05 PM	Yes	No	Yes	Yes	Sunny	36	> 24 Hours	< 0.1 in.		Outfall
17MSDO33	SDO	5/11/2023, 10:45 AM	No	Yes	Yes	Yes	Sunny	70	> 24 Hours	< 0.1 in.	10:32	Outfall
18GSDO233	SDO	3/8/2023, 9:37 AM	Yes	No	Yes	Yes	Cloudy	34	> 24 Hours	< 0.1 in.		Outfall
18LCSO086	CSO	9/21/2023, 12:14 PM	No	Yes	No	No	Sunny	73	> 24 Hours	< 0.1 in.	10:00	Manhole
19GSDO043	SDO	3/8/2023, 10:35 AM	Yes	No	Yes	No	Sunny	39	> 24 Hours	< 0.1 in.		Manhole
19GSDO194	SDO	3/8/2023, 10:32 AM	Yes	No	Yes	No	Sunny	39	> 24 Hours	< 0.1 in.		Manhole
19GSDO199	SDO	2/20/2023, 9:49 AM	No	No	Yes	No	Cloudy	53	> 24 Hours	< 0.1 in.		Catch Basin
19LCSO084	CSO	10/4/2023, 9:40 AM	No	Yes	No	No	Sunny	68	> 24 Hours	< 0.1 in.	9:25 AM	Manhole
19LCSO085	CSO	9/21/2023, 11:03 AM	No	Yes	No	No	Sunny	73	> 24 Hours	< 0.1 in.	10:00	Manhole
19MCSO082	CSO	10/4/2023, 10:22 AM	No	Yes	No	No	Sunny	73	> 24 Hours	< 0.1 in.	9:25 AM	Manhole
19NCSO081	CSO	10/4/2023, 10:52 AM	Yes	Yes	No	No	Sunny	76	> 24 Hours	< 0.1 in.	9:25 AM	Manhole
20DMH19	Interconnection	7/6/2023, 12:56 PM										Manhole
20DMH62	Interconnection	6/26/2023, 9:28 AM										Manhole
20DNP140 (20DMH185)	Interconnection	7/6/2023, 3:17 PM										Manhole
20GSDO161	SDO	2/16/2023, 1:13 PM	Yes	No	Yes	Yes	Cloudy	62	> 24 Hours	< 0.1 in.		Outfall
20GSDO163	SDO	2/20/2023, 11:26 AM	No	No	Yes	No	Sunny	58	> 24 Hours	< 0.1 in.		Manhole
20GSDO164	SDO	2/16/2023, 1:10 PM	No	No	No	No	Cloudy	62	> 24 Hours	< 0.1 in.		Catch Basin
21CSDO212	SDO	3/8/2023, 8:36 AM	No	No	Yes	Yes	Cloudy	33	> 24 Hours	< 0.1 in.		Outfall
21DMH319	Interconnection	7/6/2023, 12:43 PM										Manhole
21EMH086	Interconnection	7/12/2023, 10:12 AM										Manhole
21EMH64	Interconnection	7/12/2023, 9:35 AM										Manhole
21HCSO046 (15GMH290)	CSO	3/8/2023, 10:36 AM	No	No	No	No	Cloudy	42	> 24 Hours	< 0.1 in.		Manhole
21HCSO046 (19HMH222)	CSO	3/8/2023, 11:09 AM										Manhole
21HCSO046 (23IMH1)	CSO	3/8/2023, 11:38 AM										Manhole
21HSDO001	SDO	3/8/2023, 11:05 AM	No	No	No	No	Sunny	39	> 24 Hours	< 0.1 in.		Manhole
21HSDO002	SDO	3/8/2023, 11:04 AM	No	No	No	No	Sunny	39	> 24 Hours	< 0.1 in.		Manhole
21HSDO045	SDO	1/3/2024, 12:26 PM	No	No	Yes	Yes	Sunny	40	> 24 Hours	< 0.1 in.		Manhole
21HSDO047	SDO	1/3/2024, 11:56 AM	No	No	No	No	Sunny	40	> 24 Hours	< 0.1 in.		Manhole
21HSDO048	SDO	3/8/2023, 12:53 PM	No	No	No	No	Sunny	39	> 24 Hours	< 0.1 in.		Manhole
21KCSO070	CSO	7/25/2023, 11:14 AM	Yes	Yes	Yes	Yes	Cloudy	79	> 24 Hours	< 0.1 in.	11:09 AM	Outfall
21KSDO069	SDO	8/7/2023, 12:23 PM	No	Yes	Yes	No	Cloudy	73	> 24 Hours	< 0.1 in.	10:24 AM	Manhole
21LCSO076	CSO	9/20/2023, 7:58 AM	Yes	Yes	Yes	Yes	Sunny	60	> 24 Hours	< 0.1 in.	9:13	Outfall
21MCSO078	CSO	7/24/2023, 11:55 AM	Yes	Yes	Yes	Yes	Sunny	84	> 24 Hours	< 0.1 in.	10:29 AM	Outfall
21MCSO079	CSO	7/25/2023, 12:01 PM	No	Yes	No	No	Sunny	82	> 24 Hours	< 0.1 in.	11:09 AM	Manhole
21MSDO010	SDO	7/24/2023, 11:30 AM	No	Yes	Yes	Yes	Sunny	83	> 24 Hours	< 0.1 in.	10:29 AM	Outfall

	OUTFALL OBSERVATIONS										MANHOLE OBSERVATIONS									
Facility ID	Is There Flow	If Flow Velocity	If Submerged Percent	Sediment Depth percent	Depth Water plus Sed percent	Odor	Color	Turbidity	Floatables	Deposits Stains	Manhole Facility ID	Is There Flow	If Flow Velocity	Sediment Depth percent	Depth Water plus Sed percent	Odor	Color	Turbidity	Floatables	Deposits Stains
01ESDO24	Submerged	NA	30	0	30	None	Clear	Clear	None	None	1EMH21	Dry	NA	0	0	None				Sediments
01FSDO31											1FMH33	Standing	NA	5	20	Musty	Clear	SuspendedSolids	None	None
02ESDO5	Dry	NA		0	0	None				None										
02FMH120											2FMH119	Dry	NA			None				None
02FSDO120	Flow	Heavy		0	10	None	Clear	Clear	None	None										
02FSDO85	StandingWater	NA		5	10	None	Clear	Clear	None	None	2FMH84	Dry	NA			None				None
02FSDO93	Submerged	NA	100	0	100						2FMH74	Standing	NA	0	100	None	Clear	Clear	None	None
03ESDO185	Flow	Slow		15	40	None	Clear	Clear	None	Sediments										
03ESDO186	Submerged	NA	100								3EMH89	Standing	NA			None	Clear	Clear	None	None
03ESDO207	Dry	NA		0	0	None				Sediments										
03FMH56											3FMH56	Flow	Moderate			None	Clear	Clear	None	None
04ESDO64	Dry	NA		0	0	None				None										
04ESDO69	Submerged	NA	90	0	90	None	Clear	Clear	None	None	3EMH169	Flow	Slow			None	Yellow	Clear	None	Sediments
04FMH90											4FMH90	Flow	Slow			None	Clear	Clear	None	Sediments
04FSDO1											4FCB136	Dry	NA	0	0	None				None
04FSDO118	Dry	NA		0	0	None				None										
04FSDO119	Submerged	NA	100	5	100	None	Clear	Clear	None	None	3FMH21	Flow	Slow			None	Clear	Clear	None	None
04FSDO16	StandingWater	NA		10	20	None	Clear	Cloudy	OilyShe	None	4FMH213	Dry	NA			None				None
04FSDO189	StandingWater	NA		0	50	None	Clear	Clear	Garbag	None	5FMH36	Dry	NA	0	0	None				None
04FSDO203	Dry	NA		0	0	None				None										
04FSDO204											4FMH219	Flow	Moderate			None	Clear	Clear	None	None
05CSDO110	Dry	NA		0	0	None				None										
05ESDO180	Dry	NA		0	0	None				None										
05ESDO181	Submerged	NA	100	5	100	Musty	Clear	Clear	None	None	5ECB5	Cannot O	NA							
05ESDO182	StandingWater	NA		10	60	None	Clear	Clear	Garbag	None	5EMH152	Dry	NA			None			None	None
05ESDO183	StandingWater	NA		30	50	None	Clear	Clear	None	None	5DCB12	Dry	NA	0	0	None				None
05ESDO184	StandingWater	NA		0	40	None	Clear	Clear	Garbag	None	5EMH223	Flow	Moderate			None	Clear	Clear	None	None
05FSDO117	Flow	Moderate		0	5	None	Clear	Clear	None	None										
05FSDO244	Submerged	NA	60	0	60	None	Clear	Clear	None	Unknown	4FMH70	Standing	NA			None	Clear	Opaque	Other	None
05FSDO245	Submerged	NA	90	1	90	None	Clear	Clear	None	None	5FMH210	Standing	NA			None	Clear	Clear	None	Unknown
05FSDO253											5FMH72	Flow	Moderate			None	Clear	Clear	None	None
05FSDO254	Dry	NA		1	1	None				Sediments										
05GSDO112											5GMH158	Dry	NA			None				None
05GSDO115	Dry	NA		0	0	None				None										
05GSDO116	Dry	NA		0	0	None				None										
05GSDO116A	Flow	Moderate		0	2	None	Clear	Clear	None	None										
06CMH117											6CMH117	Dry	NA			None			None	None
06DMH97											6DMH97	Flow	Heavy	0	15	None	Clear	Clear	None	None
06DSDO187	Submerged	NA	100	25	100	None	Grey	Opaque	None	Unknown	6DMH216	Flow	Heavy			None	Clear	Clear	Other	Other
06DSDO57											7DMH137	Flow	Moderate			Musty	Clear	Clear	None	None
06DSDO83	Dry	NA		0	0	None				None										
06DSDO84											6DMH82	Dry	NA			None				Sediments
06DSDO85	Dry	NA		60	60	None				Sediments										
06DSDO86	StandingWater	NA		5	50	None	Clear	Clear	None	None	6DCB91	Submerged		10	100	None	Clear	Clear	None	None
06DSDO91	Submerged	NA	90	5	90	None	Clear	Clear	None	None	6DCB88	Standing	NA	1	5	None	Clear	Clear	None	None
06FSDO233	Submerged	NA	60	0	60	None	Clear	Clear	None	None	6FCB1	Dry	NA	10	10	None				None
06GSDO108	Flow	Moderate		0	2	None	Clear	Clear	None	None										
06GSDO109	StandingWater	NA		0	3	None	Clear	Clear	None	None	6GMH134	Standing	NA			None	Clear	Clear	None	None
06GSDO110	Flow	Moderate		0	5	None	Clear	Clear	None	None										
06GSDO111	Flow	Slow		0	1	None	Clear	Clear	None	None										
06GSDO165	Flow	Moderate		0	3	Musty	Grey	Cloudy	None	Unknown										
06GSDO166	Flow	Heavy		0	5	None	Clear	Clear	None	None										
06HSDO106	Dry	NA		0		None			None	None										
06HSDO107	Dry	NA				None			None	None										
07CSDO006	Flow	Slow		5	15	None	Clear	Clear	None	None										
07HSDO105	Flow	Heavy		0	5	None	Clear	Clear	None	None										
07HSDO285 (7HMH104)											7HMH104	Flow	Slow			None	Brown	Opaque	Other	None
07HSDO285 (8HMH433)											8HMH433	Flow	Moderate			None	Clear	Cloudy	None	None
07HSDO346	Dry	NA				None			None	None										
07HSDO347	Dry	NA				None			None	None										
07HSDO348 (7HMH328)	StandingWater	NA		100	0	None	Clear	Clear	Garbag	Other	7HMH328	Standing	NA			None	Clear	Cloudy	None	Sediments
07HSDO348 (7HMH333)	StandingWater	NA									7HMH333	Dry	NA			None			None	None
08BSDO122	Submerged	NA	100	0	100	None	Clear	Clear	None	Unknown	8BCB4	Flow	Slow	0	10	None	Clear	Clear	None	None
08BSDO126	Submerged	NA	100	0	100	None	Clear	Clear	None	None	8BMH39	Dry	NA			None				None
08CSDO25	StandingWater	NA		5	50	None	Clear	Clear	None	None	8CMH355	Flow	Moderate			None	Clear	Clear	None	None
08CSDO26	StandingWater	NA		5	50	None	Clear	Clear	None	None	8CMH355	Flow	Moderate			None	Clear	Clear	None	None
08ESDO31	Flow	Moderate		0	5	None	Clear	Clear	None	None										
08ESDO33	Dry	NA				None			None	None										
08ESDO35	Flow	Slow		5	15	None	Clear	Clear	None	None										
08FSDO1	Dry	NA		2		None			None	None										
08ISDO153	Dry	NA				None			None	None										
08ISDO154	Flow	Moderate		0	1	None	Clear	Clear	None	None										
08ISDO155	Dry	NA				None			None	None										
08ISDO156	Flow	Moderate		0	1	None	Clear	Clear	None	None										
08ISDO158	Flow	Slow		0	1	None	Clear	Clear	None	None										
08ISDO207	Dry	NA				None			None	None										
08ISDO209	Dry	NA				None			None	None										
08JSDO102	Dry	NA		0	0	None				None										
08JSDO103	Flow	Moderate		0	5	None	Clear	Clear	None	None										
08JSDO41	Dry	NA				None			None	None										
08JSDO50	Flow	Moderate		0	1	None	Clear	Clear	None	None										
08KSDO49	Dry	NA		0	0	None				None										
09BSDO49	Flow	Slow		50	70	None	Orange	Suspended	OilyShe	None										
09ESDO229											9EMH191	Dry	NA			None				None
09ESDO243	Flow	Slow		10	15	None	Clear	Clear	None	None										
09KSDO100	Submerged	NA	100	20	100	None	Clear	Clear	None	Unknown	9KMH62	Flow	Moderate			None	Clear	Clear	None	None
09KSDO101	Flow	Moderate		5	20	None	Clear	Clear	None	None										
09KSDO16											8KMH41	Dry	NA			None				None
09LSDO095	Flow	Slow		0	1	None	Clear	Clear	None	None										
10BSDO15	Submerged	NA	100	0	100	None	Clear	Clear	None	None	10BMH143	Dry	NA	0	0	None				None
10LSDO094	Flow	Slow		5	20	None	Clear	Clear	None	Sediments										
10LSDO096	StandingWater	NA		0	50	SaltW	Clear	Clear	None	None	10LMH290	Flow	Moderate			None	Clear	Clear	None	None
11BMH49											11BMH49	Dry	NA			None				None
11BSDO123	Submerged	NA	100	0	100						11BMH43	Standing	NA			None	Clear	Clear	None	None
11GSDO344 (11GMH246)											11GMH246	Flow	Moderate			None	Clear	Clear	None	Sediments
11GSDO344 (11GMH249)											11GMH249	Standing	NA			None	Clear	Clear	OilyShe	None
11ISDO577	Flow	Slow		2	70	None	Clear	Opaque	None	Unknown										
11MSDO093	Flow	Moderate		0	10	None	Clear	Clear	None	None										
12BSDO10	Dry	NA		5	0	None			None	Unknown										
12BSDO124	Flow	Slow		0	50	None	Clear	Clear	None	None										
12BSDO14	StandingWater	NA		0	0	None	Clear	Clear	None	Unknown	12BMH11	Dry	NA			None			None	None
12BSDO33											12BMH32	Flow	Slow			None	Clear	Clear	None	None
12ESDO418	Flow	Slow		15	50	None	Clear	Clear	None	None										
12FSDO305	Flow	Slow		5	40	None	Clear	Clear	None	None										
12HSDO1 (12HMH24)	Submerged	NA	100	0	100						12HMH24	Submerge	NA			None	Brown	Cloudy	Garbag	Unknown
12HSDO1 (12HMH29)	Submerged	NA									12HMH29	Submerge	NA			None	Clear	Clear	Garbag	Unknown
12HSDO2	Flow	Moderate		0	2	None	Clear	Clear	None	None										
12HSDO92	Submerged	NA	100	0	100	None	Clear	Clear	None	None	12HMH44	Flow	Heavy			None	Clear	Clear	None	Sediments
12LMH304											12LMH498	Flow	Slow			None	Brown	SuspendedSolids	None	None
12LMH374											12LMH373	Flow	Slow			Salt W	Clear	Clear	Other	Sediments
12LSDO092	Flow	Moderate		50	70	None	Orange	Cloudy	None	Sediments										
12MSDO091	Flow	Slow		5	10	None	Clear	Clear	None	None										
13BSDO11	Flow	Slow		0	100	None	Clear	Clear	None	None										
13DSDO077	Flow	Slow		5	25	None	Clear	Clear	None	None										
13DSDO078	Flow	Slow		2	25	None	Clear	Clear	None	None										
13ESDO174	Dry	NA		0	0	None			None	None										
13ESDO175	Flow	Slow		15	40	None	Clear	Clear	None	None										
13ESDO176	Submerged	NA	50	0	50	None	Clear	Clear	None	Unknown	12EMH146	Flow	Moderate			None	Clear	Clear	None	None
13FSDO11	Flow	Moderate		0	15	None	Clear	Clear	None	None										
13FSDO12	Flow	Moderate		5	20	None	Clear	Clear	None	None										
13FSDO95	Submerged	NA	100	0	100	None	Clear	Clear	None	None	13FMH41	Dry	NA			None				None
13FSDO96	Dry	NA		0	0	None			None	Unknown										
13FSDO97	Dry	NA		0	0	None				None										
13LSDO090	Flow	Heavy		0	10	None	Clear	Clear	None	None										
14CSDO9	StandingWater	NA		0	5	None	Clear				14CMH12	Dry	NA			None				None
14EMH36											14EMH36	Dry	NA			None				None
15FSDO288	Flow	Slow		0	7	None	Clear	Clear	None	None										
15LSDO088	Flow	Slow		15	40	None	Clear	Clear	None	None										
15LSDO089	Submerged	NA	100								15LMH11	Flow	Moderate	0	30	None	Clear	Clear	None	None
16LSDO097	Flow	Moderate		0	5	None	Clear	Clear	None	None										
16LSDO122	Flow	Slow		0	40	SaltW	Clear	Clear	None	None										
17FSDO12	Flow	Moderate		0	3	None	Clear	Clear	None	None										
17MSDO33	Flow	Moderate		1	20	SaltW	Clear	Clear	None	None										
18GSDO233	Flow	Moderate		5	10	None	Clear	Clear	Other	None										
18LCSO086	Submerged	NA	100								18LMH78	Flow	Heavy			None	Clear	Clear	None	None
19GSDO043											19GMH15	Flow	Slow	1	10	None	Clear	Cloudy	None	None
19GSDO194											19GMH31	Flow	Slow	0	30	None	Clear	Clear	None	None
19GSDO199	Submerged	NA	100	50	100	None	Grey	Cloudy	Other	Unknown	19GCB17	Standing	NA	5	15	None	Clear	Clear	None	None
19LCSO084	Submerged	NA	100								19LMH266	Flow	Slow			Salt W	Yellow	Cloudy	None	Sediments
19LCSO085	Submerged	NA	100								CH58698	Standing	NA			None	Clear	Cloudy	None	None
19MCSO082	Submerged	NA	100								19MMH148	Flow	Moderate			None	Clear	Clear	None	Unknown
19NCSO081	Submerged	NA	100								20NMH28	Flow	Slow			None	Clear	Clear	None	None
20DMH19											20DMH19	Flow	Heavy	0	25	None	Clear	Clear	None	None
20DMH62											20DMH62	Dry	NA			None			None	None
20DNP140 (20DMH185)											20DMH185	Flow	Slow			None	Clear	Clear	Other	None
20GSDO161	Flow	Moderate		0	5	None	Clear	Clear	None	None										
20GSDO163	Submerged	NA	100	0	100	None	Clear	Clear	None	Unknown	20GMH107	Dry	NA			None				None
20GSDO164											20GCB125	Dry	NA	10	10	None				None
21CSDO212	Flow	Moderate		0	10	None	Clear	Clear	None	None										
21DMH319											21DMH319	Flow	Moderate	0	5	None	Clear	Clear	None	None
21EMH086											21EMH86	Flow	Slow			None	Clear	Clear	None	None
21EMH64											21EMH64	Dry	NA			None			None	None
21HCSO046 (15GMH290)	Submerged	NA	100		100	None	Clear	Clear	None	None	15GMH290	Flow	Moderate			None	Clear	Clear	None	None
21HCSO046 (19HMH222)	Submerged	NA									19HMH222	Flow	Slow			None	Clear	Clear	None	None
21HCSO046 (23IMH1)	Submerged	NA									23IMH1	Flow	Slow			None	Clear	Clear	None	None
21HSDO001											21HMH67	Flow	Slow	0	10	None	Clear	Cloudy	None	Sediments
21HSDO002											21HMH45	Standing	NA			None	Clear	Clear	None	None
21HSDO045	Submerged	NA	100	0	100	None	Clear	Clear		None	21HMH37	Flow	Slow			None	Clear	Clear		None
21HSDO047	Submerged	NA	100	0	100						21HMH14	Flow	Slow			None	Clear	Clear		None
21HSDO048											20HMH267	Dry	NA			None			Other	Unknown
21KCSO070	Flow	Moderate		5	40	None	Clear	Cloudy	None	None										
21KSDO069	Submerged	NA	100	0	100	SaltW	Clear	Clear	None	None	21KMH489	Standing	NA			None	Clear	Cloudy	None	None
21LCSO076	Flow	Slow		0	30	SaltW	Clear	Clear	None	None										
21MCSO078	Flow	Moderate		0	2	None	Clear	Clear	None	None										
21MCSO079											21MMH17	Flow	Moderate			None	Clear	Clear	None	None
21MSDO010	Flow	Moderate		0	5	SaltW	Clear	Clear	None	None										

	OUTFALL CONDITION												
Facility ID	Pipe Shape	Pipe Material	Needs Repair	Needs Cleaning	Pipe End Debris	Pipe End Broken Collapsed	Bar Screen Needs Cleared	Bar Screen Broken Missing Deter	Head Wall Corroded Pit Spall	Rip Rap Debris Deposition	Rip Rap Broken Missing	Tide Gate Broken Missing	Outfall Condition Comments
01ESDO24		Concrete	No	No	0 - No	0 - No	NA	NA	2 - Mod: generally et	NA	NA	NA	
01FSDO31													
02ESDO5		Other	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
02FMH120													
02FSDO120		Concrete	No	No	0 - No	0 - No	NA	NA	2 - Mod: generally et	NA	NA	NA	
02FSDO85		PVC	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
02FSDO93													
03ESDO185		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
03ESDO186													
03ESDO207		Other	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
03FMH56													
04ESDO64		Concrete	No	No	1 - Min: <1	0 - No	NA	NA	NA	0 - No	0 - No	NA	
04ESDO69													
04FMH90													
04FSDO1													
04FSDO118		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching spot	NA	NA	NA	
04FSDO119													
04FSDO16		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching spot	NA	NA	NA	
04FSDO189		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
04FSDO203		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
04FSDO204													
05CSDO110		VC	No	No	1 - Min: <1	3 - Yes, Broken	NA	NA	1 - Min: etching spot	NA	NA	NA	
05ESDO180		Concrete	No	No	1 - Min: <1	0 - No	NA	NA	2 - Mod: generally et	NA	NA	NA	Both outfalls
05ESDO181		Concrete	No	Yes	0 - No	0 - No	NA	NA	1 - Min: etching spot	NA	NA	NA	
05ESDO182		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
05ESDO183		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching spot	NA	NA	NA	
05ESDO184		VC	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
05FSDO117		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
05FSDO244		Concrete	No	No	0 - No	0 - No	NA	NA	NA	0 - No	NA	NA	
05FSDO245		VC	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
05FSDO253													
05FSDO254		PVC	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
05GSDO112													
05GSDO115		VC	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
05GSDO116		PVC	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	Park in uhaul
05GSDO116A		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
06CMH117													
06DMH97													
06DSDO187													
06DSDO57													
06DSDO83		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
06DSDO84													
06DSDO85		Concrete	No	No	1 - Min: <1	0 - No	NA	NA	1 - Min: etching spot	NA	NA	NA	
06DSDO86		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching spot	NA	NA	NA	Outfall difficu
06DSDO91		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching spot	NA	NA	NA	
06FSDO233		Concrete	No	No	1 - Min: <1	3 - Yes, Broken	NA	NA	NA	NA	NA	NA	
06GSDO108		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching spot	NA	NA	NA	
06GSDO109		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching spot	NA	NA	NA	
06GSDO110		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching spot	1 - Min: <1gal	1 - Min: 1-2 b	NA	
06GSDO111		Metal	No	No	0 - No	0 - No	NA	NA	0 - No	0 - No	0 - No	NA	
06GSDO165		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
06GSDO166		Concrete	No	No	NA	NA	NA	NA	NA	NA	NA	NA	
06HSDO106		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
06HSDO107		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
07CSDO006		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
07HSDO105		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
07HSDO285 (7HMH104)													
07HSDO285 (8HMH433)													
07HSDO346		Concrete	No	No	0 - No	0 - No	NA	NA	NA	0 - No	0 - No	NA	
07HSDO347		Concrete	No	Yes	3 - Maj: 3-	0 - No	NA	NA	NA	0 - No	0 - No	NA	Major trash d
07HSDO348 (7HMH328)		Concrete	No	Yes	3 - Maj: 3-	0 - No	NA	NA	NA	2 - Mod: 1-3g	1 - Min: 1-2 b	NA	Rip rap loose
07HSDO348 (7HMH333)													
08BSDO122													
08BSDO126													
08CSDO25		Concrete	No	No	0 - No	0 - No	NA	0 - No	NA	NA	NA	NA	
08CSDO26		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
08ESDO31													
08ESDO33		PVC	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
08ESDO35		Concrete	No	No	1 - Min: <1	0 - No	NA	NA	NA	NA	NA	NA	
08FSDO1		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
08ISDO153		VC	No	No	0 - No	0 - No	NA	NA	1 - Min: etching spot	0 - No	0 - No	NA	
08ISDO154		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching spot	NA	NA	NA	
08ISDO155		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	0 - No	0 - No	NA	
08ISDO156		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	0 - No	0 - No	NA	
08ISDO158		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
08ISDO207		Concrete	No	No	0 - No	0 - No	NA	NA	NA	0 - No	0 - No	NA	
08ISDO209		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching spot	0 - No	0 - No	NA	
08JSDO102		PVC	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	0 - No	
08JSDO103		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
08JSDO41		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
08JSDO50		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
08KSDO49		VC	No	No	1 - Min: <1	0 - No	NA	NA	1 - Min: etching spot	0 - No	0 - No	NA	
09BSDO49		Concrete	No	Yes	2 - Mod: 1	0 - No	0 - No	0 - No	0 - No	NA	NA	NA	
09ESDO229													
09ESDO243		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
09KSDO100													
09KSDO101		Concrete	No	No	1 - Min: <1	0 - No	0 - No	0 - No	0 - No	NA	NA	NA	
09KSDO16													
09LSDO095		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
10BSDO15		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching spot	NA	NA	NA	
10LSDO094		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	0 - No	
10LSDO096		Concrete	No	No	3 - Maj: 3-	0 - No	NA	NA	NA	NA	NA	NA	
11BMH49													
11BSDO123													
11GSDO344 (11GMH246)													
11GSDO344 (11GMH249)													
11ISDO577		Brick	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
11MSDO093			No	No	0 - No	0 - No	NA	NA	1 - Min: etching spot	NA	NA	NA	
12BSDO10			No	No	0 - No	0 - No	NA	NA	NA	0 - No	NA	NA	
12BSDO124			No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
12BSDO14		Concrete	No	No	0 - No	0 - No	NA	NA	NA	0 - No	NA	NA	Under bridge
12BSDO33													
12ESDO418		Metal	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
12FSDO305		PVC	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
12HSDO1 (12HMH24)													
12HSDO1 (12HMH29)													
12HSDO2		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
12HSDO92		Other	No	No	0 - No	NA	NA	NA	NA	NA	NA	NA	Outfall and h
12LMH304													
12LMH374													
12LSDO092		Concrete	No	No	0 - No	0 - No	0 - No	0 - No	1 - Min: etching spot	NA	NA	NA	
12MSDO091		Concrete	No	No	1 - Min: <1	0 - No	0 - No	0 - No	NA	1 - Min: <1gal	0 - No	0 - No	
13BSDO11		Other	No	No	NA	NA	NA	NA	NA	NA	NA	NA	
13DSDO077		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
13DSDO078		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
13ESDO174		Concrete	No	No	0 - No	0 - No	NA	NA	NA	0 - No	NA	NA	
13ESDO175		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
13ESDO176													
13FSDO11		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching spot	0 - No	0 - No	NA	
13FSDO12		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
13FSDO95													
13FSDO96		VC	No	No	0 - No	3 - Yes, Broken	NA	NA	NA	0 - No	NA	NA	
13FSDO97		VC	No	No	0 - No	3 - Yes, Broken	NA	NA	NA	0 - No	NA	NA	Covered in ve
13LSDO090		Concrete	No	No	NA	NA	NA	NA	NA	NA	NA	NA	
14CSDO9		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
14EMH36													
15FSDO288		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
15LSDO088		Concrete	No	No	NA	NA	NA	NA	NA	NA	NA	NA	
15LSDO089													
16LSDO097		Concrete	Yes	No	0 - No	3 - Yes, Broken	NA	NA	NA	NA	NA	NA	
16LSDO122		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	0 - No	0 - No	NA	
17FSDO12		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
17MSDO33		Concrete	No	No	0 - No	0 - No	NA	0 - No	1 - Min: etching spot	NA	NA	NA	
18GSDO233		Concrete	No	No	1 - Min: <1	0 - No	NA	NA	NA	0 - No	2 - Mod: 2-4 b	NA	
18LCSO086													
19GSDO043													
19GSDO194													
19GSDO199		Other	No	No	2 - Mod: 1	NA	NA	NA	NA	NA	NA	NA	Outfall comp
19LCSO084													
19LCSO085													
19MCSO082													
19NCSO081													
20DMH19													
20DMH62													
20DNP140 (20DMH185)													
20GSDO161		Concrete	No	No	1 - Min: <1	0 - No	0 - No	0 - No	NA	NA	NA	NA	
20GSDO163		Concrete	No	No	0 - No	3 - Yes, Broken	NA	NA	NA	NA	NA	NA	Submerged
20GSDO164													
21CSDO212		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
21DMH319													
21EMH086													
21EMH64													
21HCSO046 (15GMH290)													
21HCSO046 (19HMH222)													
21HCSO046 (23IMH1)													
21HSDO001													
21HSDO002													
21HSDO045													
21HSDO047			No	No	0 - No	NA	NA	NA	NA	NA	NA	NA	
21HSDO048													
21KCSO070		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
21KSDO069													
21LCSO076		Concrete	No	No	0 - No	0 - No	0 - No	0 - No	0 - No	NA	NA	0 - No	
21MCSO078		Concrete	No	No	0 - No	0 - No	0 - No	0 - No	1 - Min: etching spot	NA	NA	NA	
21MCSO079													
21MSDO010		Concrete	No	No	0 - No	0 - No	0 - No	0 - No	1 - Min: etching spot	NA	NA	NA	

	SAMPLING DATA															
Facility ID	Samples Collected	If No Reason	Other Reason No Sample	Surfactants	Ammonia	Chlorine	pH	Conductivity	Temperature	Salinity	Outfall Comments	MH Comments	Bacteria Type	Bacteria Result	Bacteria Duplicate Sample Collect	Bacteria Duplicate Sample Result
01ESDO24	No	No Flow														
01FSDO31	No	Standing Water									Went to upstream manhole 1FMH22.					
02ESDO5	No	No Flow														
02FMH120	No	No Flow														
02FSDO120	Yes			0.25	0	0	7.38	1676	16.5	0.8			E.coli	<10	No	
02FSDO85	No	No Flow									Continued upstream.					
02FSDO93	No	Standing Water									Outfall is 100% submerged, Could no	Inlets and outlets are 100% submerged				
03ESDO185	Yes			0.25	0.6	0	7.18	1246	10.1	0.8			E.coli	50	Yes	70
03ESDO186	No	Standing Water									Could not locate outfall					
03ESDO207	No	No Flow														
03FMH56	Yes			0.75	0	0	7.51	1457	8.8	0.9			E.coli	3,600	No	
04ESDO64	No	No Flow														
04ESDO69	Yes			0.5	0.1	0	7.6	1353	10.5	0.8	Outfall submerged, continued upstream.		E.coli	280	No	
04FMH90	Yes			1.5	0	0	7.56	7930	7	3.9		Both inlets and outlet are 100% submerged.	E.coli	20	No	
04FSDO1	No	No Flow									Could not locate / see outfall. Potien	Structure is a cb. Outlet seen dry but no inlets seen- may be submerged; continued upstream.				
04FSDO118	No	No Flow														
04FSDO119	Yes			0	0	0	7.06	2020	17.7	1	Outfall is submerged, went upstream.		E.coli	80	No	
04FSDO16	No	No Flow														
04FSDO189	No	No Flow									Continued upstream.	Inlet is dry				
04FSDO203	No	No Flow														
04FSDO204	Yes			0.5	0	0	7.3	1690	6.3	1	Could not access outfall due to train tracks. Continued upstream.		E.coli	90	No	
05CSDO110	No	No Flow														
05ESDO180	No	No Flow														
05ESDO181	No	Other	CNA									Car parked on top, could not access. Assumed structure was standing water.				
05ESDO182	No	No Flow														
05ESDO183	No	No Flow									Continued upstream.					
05ESDO184	Yes			0	0	0	7.56	1119	22.5	0.5			E.coli	<10	No	
05FSDO117	Yes			0.5	0	0.1	7.45	2210	12.9	1.1			E.coli	660	No	
05FSDO244	No	Standing Water														
05FSDO245	No	Standing Water									Went upstream.					
05FSDO253	Yes			0.25	0	0	7.39	1808	18.4	0.8	Could not access outfall, contiuned upstream.		E.coli	70	No	
05FSDO254	No	No Flow														
05GSDO112	No	No Flow														
05GSDO115	No	No Flow														
05GSDO116	No	No Flow														
05GSDO116A	Yes			0.75	0	0.1	7.76	3360	9.6	1.6			E.coli	<10	No	
06CMH117	No	No Flow														
06DMH97	Yes			0	0.8	1	8.34	457	18.2	0.2			E.coli	<10	No	
06DSDO187	Yes			1	5	0	6.43	1046	16.6	0.5			E.coli	>80,000	No	
06DSDO57	Yes			0.25	0.1	0	7.48	1297	11	0.6	Could not locate outfall, continued upstream.		E.coli	10	No	
06DSDO83	No	No Flow														
06DSDO84	No	No Flow									Could not locate outfall, most likely submerged. Continued upstream.					
06DSDO85	No	No Flow														
06DSDO86	No	Standing Water														
06DSDO91	No	Standing Water														
06FSDO233	No	No Flow														
06GSDO108	Yes			0.75	0	0.1	6.63	5210	8.6	2.7			E.coli	610	No	
06GSDO109	No	Standing Water									Water from the outfall was completely frozen, see photo attached to outfall condition.					
06GSDO110	Yes			0.5	0	0.6	6.71	1506	9	0.7			E.coli	<10	No	
06GSDO111	Yes			1.5	0	0	7.26	5960	7.8	2.6			E.coli	60	No	
06GSDO165	Yes			0.75	5	0	7.63	2580	10.9	1.3			E.coli	10,000	No	
06GSDO166	Yes			0.5	0.2	0	7.97	354	11.5	0.2			E.coli	30	No	
06HSDO106	No	No Flow														
06HSDO107	No	No Flow														
07CSDO006	Yes			0	0	0	7.85	865	18.7	0.4	North and south "inlets" are dry		E.coli	4,500	No	
07HSDO105	Yes			0	0	0	7.34	1227	20	0.6			E.coli	3,000	No	
07HSDO285 (7HMH104)	Yes			0.75	1	0	7.1	919	19.4	0.4		very slight flow	E.coli	43,000	No	
07HSDO285 (8HMH433)	Yes			3	4	0	7.2	1557	20.1	0.7	Upstream pipe diverges before man	Upstream of N line for outfall 07HSDO285.	E.coli	10,000	No	
07HSDO346	No	No Flow														
07HSDO347	No	No Flow														
07HSDO348 (7HMH328)	No	Standing Water									Pipe blocked, seems like a tree root. Standing water as a result					
07HSDO348 (7HMH333)	No	No Flow														
08BSDO122	Yes			0.5	0	0	6.53	5340	11.7	2.7			E.coli	<10	No	
08BSDO126	No	No Flow														
08CSDO25	Yes			0.5	0	0.1	8.31	461	3.3	0.2			E.coli	10	No	
08CSDO26	Yes			0.5	0	0.1	8.51	364	2.2	0.2			E.coli	60	No	
08ESDO31	Yes			0.5	0	0.1	8.39	1142	6.1	0.6			E.coli	1,900	No	
08ESDO33	No	No Flow														
08ESDO35	Yes			1.5	0	0.1	8.22	7750	3.1	4.1			E.coli	<10	No	
08FSDO1	No	No Flow														
08ISDO153	No	No Flow														
08ISDO154	Yes			0.25	0.1	0	7.69	2110	7.9	1			E.coli	150	No	
08ISDO155	No	No Flow														
08ISDO156	Yes			0.25	0.1	0.1	7.44	553	6.4	0.2			E.coli	57,000	No	
08ISDO158	Yes			0.5	0	0	7.24	1.5	6.6	0			E.coli	80	No	
08ISDO207	No	No Flow														
08ISDO209	No	No Flow														
08JSDO102	No	No Flow														
08JSDO103	Yes			0.5	0	0	7.21	1898	9.7	1			E.coli	360	No	
08JSDO41	No	No Flow														
08JSDO50	Yes			0.5	0	0	7.06	5310	9.4	2.7			E.coli	440	No	
08KSDO49	No	No Flow														
09BSDO49	Yes			0.5	4	0	6.57	2001	10.6	1			E.coli	<10	No	
09ESDO229	No	No Flow														
09ESDO243	Yes			0	0	0	7.09	1227	23.1	0.6			E.coli	70	No	
09KSDO100	Yes			0.25	0	0.1	7.78	752	16.9	0.4			Enterococci	20	No	
09KSDO101	Yes			0.5	0.4	0	7.22	2810	21.2	1.4			Enterococci	5,800	No	
09KSDO16	No	No Flow														
09LSDO095	Yes			1.5	0.1	0	7.76	4920	5.2	2.6			Enterococci	100	No	
10BSDO15	No	No Flow														
10LSDO094	Yes			0.25	0.8	0	7.51	17400	19.9	0			Enterococci	5,000	No	
10LSDO096	Yes			2	1	0	6.63	16000	10.6	9			Enterococci	4,500	No	
11BMH49	No	No Flow														
11BSDO123	No	Standing Water														
11GSDO344 (11GMH246)	Yes			0.5	0.1	0.41	7.91	864	4.6	0.4	No access to outfall, located under bridge. Continued upstream.		E.coli	40	No	
11GSDO344 (11GMH249)	No	Standing Water										Sampling location for 11GSDO344				
11ISDO577	Yes			0.25	0	0.1	7.4	1181	11.6	0.5			E.coli	60	No	
11MSDO093	Yes			1	2	0	7.24	13000	12.7	8.6			Enterococci	120	No	
12BSDO10	No	No Flow									Outfall under bridge in culvert inaccessible					
12BSDO124	Yes			0.5	0	0	6.93	1676	9.9	0.8			E.coli	5,800	No	
12BSDO14	No	No Flow									outfall under bridge in culvert inacce	Large rock in outlet but no other sediment.				
12BSDO33	Yes			0.25	0	0	6.59	648	10.6	0.3			E.coli	20	No	
12ESDO418	Yes			1.5	0	0	6.95	7020	8.2	4			E.coli	70	No	
12FSDO305	Yes			0.5	0.3	0	8.29	1359	10.5	0.7			E.coli	16,000	No	
12HSDO1 (12HMH24)	No	Other	Submerged													
12HSDO1 (12HMH29)	No	Other	Submerged													
12HSDO2	Yes			0.25	0	0	7.57	608	6.1	0.3			E.coli	<10	No	
12HSDO92	Yes			0.5	0.1	0	7.82	1002	1.5	0.5			E.coli	100	No	
12LMH304	Yes			2	10	1	8.3	8300	20.5	0			Enterococci	910	No	
12LMH374	Yes			3	0	0.1	7.57	82.1	21.7	-999			Enterococci	330	No	
12LSDO092	Yes			1.5	2	0	6.82	12040	18.9	6.9			Enterococci	190	No	
12MSDO091	Yes			1.5	0.1	0	7.15	-999	19.5	-999			Enterococci	<10	No	
13BSDO11	Yes			1.5	0.1	0.1	6.04	4560	7.6	2.3			E.coli	<10	No	
13DSDO077	Yes			0.5	0	0	7.22	855	6.2	0.4			E.coli	2,500	No	
13DSDO078	Yes			0.5	0	0	7.06	895	6.7	0.4			E.coli	1,700	No	
13ESDO174	No	No Flow														
13ESDO175	Yes			0.25	0	0	8.1	936	3.3	0.4			E.coli	630	No	
13ESDO176	Yes			1	0.1	0	8.29	6040	5	3.1	Outfall submerged continued upstream.		E.coli	1,100	No	
13FSDO11	Yes			0.5	0	0	7.49	940	6.9	0.4			E.coli	1,200	No	
13FSDO12	Yes			0.5	0	0	7.64	989	5.3	0.5			E.coli	820	No	
13FSDO95	No	No Flow									Outfall seems to have dereriorated and does not exist					
13FSDO96	No	No Flow														
13FSDO97	No	No Flow														
13LSDO090	Yes			2	0.1	0	7.3	-999	11.3	-999			Enterococci	1,500	No	
14CSDO9	No	No Flow									Standing water upstream at 14CMH10 and 14CMH11. Dry at 14CMH12					
14EMH36	No	No Flow														
15FSDO288	Yes			0.75	0	0	7.97	1047	6.2	0.5			E.coli	260	No	
15LSDO088	Yes			3	0.2	0	8	-999	10.1	-999			Enterococci	<10	No	
15LSDO089	Yes			2	0	0	7.46	-999	10.8	-999			Enterococci	160	No	
16LSDO097	Yes			3	0.1	0	7.58	-999	9.5	-999			Enterococci	30	No	
16LSDO122	Yes			2	3	0	7.13	-999	18.1	-999			Enterococci	<10	No	
17FSDO12	Yes			0.5	0	0	8.1	950	6.8	0.4			E.coli	10	No	
17MSDO33	Yes			3	0.1	0	7.36	-999	19.3	-999			Enterococci	<10	No	
18GSDO233	Yes			0.25	0.1	0.2	7.34	1539	8.7	0.8			E.coli	13,000	No	
18LCSO086	Yes			0	5	0	7.19	1269	22.3	0.6			Enterococci	520	No	
19GSDO043	Yes			2	2	0.1	7.81	12470	6.6	6.9	Outfalls are under bridge, not safely accessable		E.coli	3,300	No	
19GSDO194	Yes			0.5	0.1	0.1	8.09	3610	5.9	1.8	Outfall under bridge, not safely accessable		E.coli	80	No	
19GSDO199	No	Standing Water									Outfall submerged	Could not locate.				
19LCSO084	Yes			3	0	0.1	7.42	-999	19.6	-999	Submerged. Could not access.		Enterococci	280	No	
19LCSO085	No	StandingWater														
19MCSO082	Yes			1.5	4	0	7.31	6970	22	4.8	Submerged. Could not access.	Cover says DCR but only one inlet is DCR owned	Enterococci	110	No	
19NCSO081	Yes			3	0	0	7.49	-999	22.8	-999	Submerged. Could not access.	Taken from SW outlet to get flow from both inle	Enterococci	130	No	
20DMH19	Yes			0.1	0.1	0	7.74	1232	20.1	0.6			E.coli	1,900	No	
20DMH62	No	No Flow														
20DNP140 (20DMH185)	Yes			1	0.2	0	7.61	4080	19.6	2.1			E.coli	6,500	No	
20GSDO161	Yes			0.5	7	0.1	8.29	2970	17.2	1.5	Sign was mostly covered in sediment		E.coli	21,000	Yes	20,000
20GSDO163	No	No Flow									Outfall was submerged, went upstream.					
20GSDO164	No	No Flow														
21CSDO212	Yes			0.5	0	0.1	7.52	1452	9.8	0.7			E.coli	30	No	
21DMH319	Yes			0.5	0.2	0	7.35	3140	22.5	1.6			E.coli	65,000	No	
21EMH086	Yes			0	0.3	0.25	7.66	260	26.5	0.1			E.coli	2,500	No	
21EMH64	No	No Flow										Outlet dry but can hear flow upstream or in nearby pipe? Pebbles and pooled water in sump				
21HCSO046 (15GMH290)	Yes			0.5	0.2	0	7.46	1922	6.2	0.9	Moved upstream		E.coli	20,000	No	
21HCSO046 (19HMH222)	Yes			0.25	0	0.1	7.42	1897	6.1	0.9			E.coli	6,400	No	
21HCSO046 (23IMH1)	Yes			0.5	0.1	0.1	7.28	1904	5.7	0.9			E.coli	15,000	No	
21HSDO001	Yes			3	5	0	7.8	7180	7.2	3.8			E.coli	3,500	No	
21HSDO002	No	Standing Water														
21HSDO045	Yes			0.5	0.8	0	7.68	5.5	10.2	0		Sampled collected from the outlet	E.coli	6,100	No	
21HSDO047	Yes			0.25	0.8	0	7.54	2590	8.9	1.7	Moved upstream	sampled from outlet - both inlets were flowing	E.coli	900	No	
21HSDO048	No	No Flow									Could not access due to fence. Usually submerged					
21KCSO070	Yes			1.5	0.6	0	7.08	-999	23.8	-999			Enterococci	820	No	
21KSDO069	No	Standing Water														
21LCSO076	Yes			3	0.6	0	7.14	17490	19.8	-999			Enterococci	250	No	
21MCSO078	Yes			0.75	3	0	7.03	3180	23.4	1.7			Enterococci	1,600	No	
21MCSO079	Yes			1	0.1	0	7.26	12120	24	7			Enterococci	90	No	
21MSDO010	Yes			2	1	0	7.3	-999	25.6	-999			Enterococci	210	No	

GENERAL INFORMATION

Facility ID	Location Type	Inspection Date	Outfall Sign	Tidal Impact	Outfall Located	Outfall Accessible	Weather	Air Temp F	Time Since Last Rain	Quantity Rain24h	Time Low Tide	Sampling Location
21MSDO50	SDO	7/25/2023, 12:03 PM	No	Yes	Yes	Yes	Sunny	85	> 24 Hours	< 0.1 in.	11:09 AM	Outfall
21NCSO80	CSO	9/20/2023, 10:22 AM	No	Yes	No	No	Sunny	65	> 24 Hours	< 0.1 in.	9:13	Manhole
22CSDO384	CSO	3/8/2023, 8:54 AM	Yes	No	Yes	Yes	Cloudy	33	> 24 Hours	< 0.1 in.		Outfall
22KCSO065	CSO	9/20/2023, 9:23 AM	Yes	Yes	Yes	Yes	Sunny	60	> 24 Hours	< 0.1 in.	9:13	Manhole
22KCSO068	CSO	9/20/2023, 8:34 AM	Yes	Yes	Yes	Yes	Sunny	60	> 24 Hours	< 0.1 in.	9:13	Outfall
22KCSO072	CSO	9/20/2023, 8:23 AM	Yes	Yes	Yes	No	Sunny	60	> 24 Hours	< 0.1 in.	9:13	Manhole
22LCSO073	CSO	7/25/2023, 10:31 AM	Yes	Yes	Yes	Yes	Sunny	77	> 24 Hours	< 0.1 in.	11:09 AM	Manhole
22LSDO580	SDO	7/25/2023, 10:06 AM	No	Yes	Yes	Yes	Cloudy	76	> 24 Hours	< 0.1 in.	11:09 AM	Outfall
23BMH89	Interconnection	7/12/2023, 10:51 AM										Manhole
23GSDO132	SDO	7/12/2023, 8:19 AM	No	No	Yes	Yes	Sunny	77	> 24 Hours	< 0.1 in.		Manhole
23HMH81	Interconnection	3/8/2023, 12:20 PM										Manhole
23HSDO040	SDO	6/12/2023, 10:21 AM	No	No	No	Yes	Sunny	70	> 24 Hours	< 0.1 in.		Manhole
23HSDO042	SDO	3/8/2023, 12:03 PM	No	No	No	No	Cloudy	42	> 24 Hours	< 0.1 in.		Manhole
23LCSO062	CSO	9/20/2023, 10:05 AM	No	Yes	Yes	Yes	Sunny	60	> 24 Hours	< 0.1 in.	9:13	Outfall
23LCSO064	CSO	9/21/2023, 3:42 PM	Yes	Yes	No	No	Cloudy	60	> 24 Hours	< 0.1 in.	9:13	Manhole
23LSDO074	SDO	8/7/2023, 9:38 AM	No	Yes	No	No	Cloudy	73	> 24 Hours	< 0.1 in.	10:24	Manhole
23LSDO075 (23LMH375)	SDO	8/7/2023, 10:37 AM	No	Yes	No	No	Raining	73	> 24 Hours	< 0.1 in.	10:24	Manhole
23LSDO075 (23LMH80)	SDO	8/7/2023, 10:37 AM	No	Yes	No	No	Raining	73	> 24 Hours	< 0.1 in.	10:24	Manhole
23LSDO15	SDO	8/7/2023, 12:28 PM	No	Yes	Yes	No	Cloudy	73	> 24 Hours	< 0.1 in.	10:24	Manhole
23LSDO164	SDO	8/7/2023, 10:06 AM	Yes	Yes	Yes	Yes	Cloudy	73	> 24 Hours	< 0.1 in.	10:24	Manhole
23LSDO195	SDO	8/7/2023, 11:39 AM	No	Yes	Yes	No	Cloudy	73	> 24 Hours	< 0.1 in.	10:24	Manhole
23LSDO196	SDO	8/7/2023, 9:11 AM	No	Yes	No	No	Cloudy	73	> 24 Hours	< 0.1 in.	10:24	Manhole
23LSDO202	SDO	8/7/2023, 11:58 AM	No	Yes	Yes	No	Cloudy	74	> 24 Hours	< 0.1 in.	10:24	Manhole
24CSDO174	SDO	2/2/2023, 10:20 AM	No	No	Yes	Yes	Cloudy	31	> 24 Hours	< 0.1 in.		Outfall
24CSDO39	SDO	2/2/2023, 10:37 AM	No	No	No	No	Cloudy	31	> 24 Hours	< 0.1 in.		Manhole
24DSDO032	SDO	2/2/2023, 11:50 AM	Yes	No	Yes	Yes	Cloudy	34	> 24 Hours	< 0.1 in.		Manhole
24DSDO150	SDO	1/19/2023, 1:00 PM	Yes	No	Yes	Yes	Cloudy	40	> 24 Hours	< 0.1 in.		Outfall
24GSDO034	SDO	5/17/2023, 11:41 AM	No	No	No	No	Sunny	57	> 24 Hours	< 0.1 in.		Manhole
24GSDO035	SDO	5/17/2023, 11:01 AM	No	No	Yes	Yes	Sunny	57	> 24 Hours	< 0.1 in.		Outfall
24LCSO060	CSO	9/20/2023, 3:22 PM	Yes	Yes	No	No	Sunny	60	> 24 Hours	< 0.1 in.	9:13	Manhole
24LSDO22	SDO	7/12/2023, 12:56 PM	No	Yes	No	No	Sunny	85	> 24 Hours	< 0.1 in.	1:40	Manhole
24LSDO233	SDO	8/7/2023, 11:24 AM	No	Yes	Yes	No	Cloudy	73	> 24 Hours	< 0.1 in.	10:24 AM	Manhole
24NCSO003	CSO	3/13/2023, 11:57 AM	Yes	Yes	Yes	No	Cloudy	40	> 24 Hours	< 0.1 in.	10:08	Manhole
25DSDO040	SDO	7/12/2023, 10:24 AM	Yes	No	Yes	Yes	Sunny	86	> 24 Hours	< 0.1 in.		Manhole
25ESDO037	SDO	3/9/2023, 12:33 PM	No	No	Yes	Yes	Sunny	47	> 24 Hours	< 0.1 in.		Manhole
25GSDO041	SDO	7/6/2023, 11:28 AM	Yes	No	Yes	Yes	Sunny	81	> 24 Hours	< 0.1 in.		Outfall
25LCSO057	CSO	9/20/2023, 10:23 AM	Yes	Yes	Yes	Yes	Sunny	60	> 24 Hours	< 0.1 in.	9:13	Manhole
25LSDO058	SDO	8/7/2023, 10:16 AM	No	Yes	Yes	Yes	Cloudy	73	> 24 Hours	< 0.1 in.	10:24	Outfall
25LSDO144	SDO	8/7/2023, 10:40 AM	No	Yes	Yes	Yes	Cloudy	73	> 24 Hours	< 0.1 in.	10:24 AM	Outfall
25MCSO005	SDO	3/27/2023, 10:35 AM	Yes	Yes	Yes	Yes	Sunny	50	> 24 Hours	< 0.1 in.	10:25	Outfall
25MSDO006	SDO	3/13/2023, 9:08 AM	No	Yes	Yes	Yes	Cloudy	38	> 24 Hours	< 0.1 in.	10:08	Outfall
25MSDO007	SDO	3/13/2023, 9:40 AM	No	Yes	No	No	Cloudy	42	> 24 Hours	< 0.1 in.	10:08 AM	Manhole
25NCSO004	CSO	3/27/2023, 11:01 AM	Yes	Yes	Yes	Yes	Sunny	50	> 24 Hours	< 0.1 in.	10:25	Outfall
26FSDO038	SDO	6/8/2023, 12:13 PM	No	No	No	Yes	Sunny	64	> 24 Hours	< 0.1 in.		Manhole
26GSDO01	SDO	7/6/2023, 1:44 PM	No	No	Yes	Yes	Sunny	88	> 24 Hours	< 0.1 in.		Manhole
26JSDO049	SDO	5/10/2023, 9:07 AM	No	Yes	No	Yes	Sunny	57	> 24 Hours	< 0.1 in.	9:35	Manhole
26JSDO052	SDO	3/9/2023, 10:02 AM	No	No	No	No	Sunny	40	> 24 Hours	< 0.1 in.		Manhole
26JSDO101	SDO	5/10/2023, 9:34 AM	No	Yes	Yes	No	Sunny	61	> 24 Hours	< 0.1 in.	9:35	Manhole
26KSDO050	SDO	5/10/2023, 8:39 AM	No	Yes	No	No	Sunny	57	> 24 Hours	< 0.1 in.	9:35	Manhole
26KSDO052	SDO	5/10/2023, 7:45 AM	No	Yes	No	No	Sunny	57	> 24 Hours	< 0.1 in.	9:35	Manhole
26KSDO099	SDO	6/12/2023, 1:06 PM	No	Yes	No	No	Sunny	81	> 24 Hours	< 0.1 in.	1	Manhole
26KSDO254	SDO	7/6/2023, 9:43 AM	No	Yes	No	No	Sunny	84	> 24 Hours	< 0.1 in.	8:11 AM	Manhole
26KSDO35	SDO	7/6/2023, 10:24 AM	No	Yes	Yes	Yes	Sunny	84	> 24 Hours	< 0.1 in.	8:11 AM	Outfall
26LCSO009	CSO	3/27/2023, 9:57 AM	Yes	Yes	Yes	Yes	Sunny	49	> 24 Hours	< 0.1 in.	10:25	Outfall
26LSDO084	SDO	3/13/2023, 10:11 AM	No	Yes	Yes	Yes	Cloudy	42	> 24 Hours	< 0.1 in.	10:08	Outfall
26LSDO106	SDO	6/12/2023, 12:32 PM	No	Yes	No	No	Sunny	72	> 24 Hours	< 0.1 in.	1:00	Manhole
26LSDO109	SDO	3/13/2023, 10:44 AM	No	Yes	Yes	Yes	Cloudy	42	> 24 Hours	< 0.1 in.	10:08 AM	Manhole
26LSDO70	SDO	6/12/2023, 11:56 AM	No	Yes	No	Yes	Sunny	72	> 24 Hours	< 0.1 in.	1:00	Manhole
27JSDO001	SDO	7/6/2023, 7:27 AM	No	Yes	No	No	Sunny	74	> 24 Hours	< 0.1 in.	8:11 AM	Manhole
27JSDO044	SDO	7/6/2023, 8:42 AM	No	Yes	No	No	Sunny	79	> 24 Hours	< 0.1 in.	8:11 AM	Manhole
27JSDO096	SDO	7/6/2023, 7:31 AM	No	Yes	No	No	Sunny	74	> 24 Hours	< 0.1 in.	8:11 AM	Manhole
27LCSO10	CSO	3/27/2023, 9:27 AM	Yes	Yes	Yes	Yes	Sunny	49	> 24 Hours	< 0.1 in.	10:25	Manhole
27LSDO020/27LSDO022	SDO	7/6/2023, 9:19 AM	No	Yes	Yes	No	Sunny	83	> 24 Hours	< 0.1 in.	8:11 AM	Manhole
28IMH015	Interconnection	3/9/2023, 8:21 AM										Manhole
28KSDO010	SDO	6/8/2023, 9:33 AM	Yes	Yes	Yes	No	Cloudy	58	> 24 Hours	< 0.1 in.	9:20	Manhole
28KSDO386	SDO	6/8/2023, 10:02 AM	No	Yes	No	No	Cloudy	61	> 24 Hours	< 0.1 in.	9:20	Manhole
28KSDO61	SDO	6/8/2023, 8:52 AM	No	Yes	Yes	Yes	Cloudy	58	> 24 Hours	< 0.1 in.	9:20	Outfall
28LCSO012	CSO	3/27/2023, 1:01 PM	Yes	Yes	Yes	Yes	Sunny	50	> 24 Hours	< 0.1 in.	10:25	Outfall
28LCSO019	CSO	9/21/2023, 9:09 AM	Yes	Yes	Yes	No	Sunny	64	> 24 Hours	< 0.1 in.	10:00	Manhole
28LSDO073	SDO	6/8/2023, 10:39 AM	No	Yes	No	No	Cloudy	58	> 24 Hours	< 0.1 in.	9:20	Manhole
28LSDO074	SDO	6/8/2023, 10:42 AM	No	Yes	Yes	No	Cloudy	58	> 24 Hours	< 0.1 in.	9:20	Manhole
28LSDO077	SDO	6/8/2023, 10:44 AM	No	Yes	No	No	Cloudy	58	> 24 Hours	< 0.1 in.	9:20	Outfall
28NSDO156	SDO	3/13/2023, 8:23 AM	No	Yes	Yes	Yes	Cloudy	38	> 24 Hours	< 0.1 in.	10:08	Outfall
28NSDO207	SDO	3/13/2023, 8:28 AM	Yes	Yes	Yes	Yes	Cloudy	38	> 24 Hours	< 0.1 in.	10:08	Outfall
28OSDO25	SDO	3/13/2023, 9:04 AM	No	Yes	Yes	Yes	Cloudy	39	> 24 Hours	< 0.1 in.	10:08	Outfall
28PSDO1	SDO	3/13/2023, 9:58 AM	No	Yes	Yes	Yes	Cloudy	39	> 24 Hours	< 0.1 in.	10:08	Outfall
29JCSO017	CSO	9/21/2023, 9:45 AM	Yes	Yes	Yes	Yes	Sunny	65	> 24 Hours	< 0.1 in.	10:00	Outfall
29JSDO029	SDO	8/7/2023, 8:37 AM	No	Yes	Yes	Yes	Cloudy	71	> 24 Hours	< 0.1 in.	10:24	Outfall
29JSDO129	SDO	7/6/2023, 8:31 AM	No	Yes	Yes	Yes	Sunny	91	> 24 Hours	< 0.1 in.	8:11 AM	Outfall
29JSDO212	SDO	8/7/2023, 9:29 AM	Yes	Yes	Yes	Yes	Cloudy	72	> 24 Hours	< 0.1 in.	10:24 AM	Outfall
29MCSO013	CSO	3/27/2023, 12:30 PM	Yes	Yes	Yes	Yes	Sunny	53	> 24 Hours	< 0.1 in.	10:25	Outfall
29MSDO049	SDO	3/27/2023, 11:27 AM	No	Yes	Yes	Yes	Sunny	54	> 24 Hours	< 0.1 in.	10:25 AM	Outfall
29NCSO014	CSO	3/27/2023, 11:20 AM	No	Yes	Yes	Yes	Sunny	50	> 24 Hours	< 0.1 in.	10:25	Outfall
29NSDO015	SDO	3/27/2023, 3:16 PM	No	Yes	Yes	Yes	Sunny	53	> 24 Hours	< 0.1 in.	10:25	Manhole
29NSDO135	SDO	3/27/2023, 12:37 PM	No	Yes	Yes	Yes	Sunny	53	> 24 Hours	< 0.1 in.	10:25	Outfall
29OSDO001	SDO	3/13/2023, 9:16 AM	No	Yes	No	No	Cloudy	39	> 24 Hours	< 0.1 in.	10:08	Manhole
29PSDO005	SDO	3/13/2023, 11:03 AM	No	Yes	Yes	Yes	Cloudy	40	> 24 Hours	< 0.1 in.	10:08	Manhole
29PSDO44	SDO	3/13/2023, 9:45 AM	No	Yes	Yes	Yes	Cloudy	39	> 24 Hours	< 0.1 in.	10:08	Outfall
30JSDO19	SDO	7/6/2023, 10:10 AM	Yes	Yes	Yes	Yes	Sunny	85	> 24 Hours	< 0.1 in.	8:11 AM	Outfall
30JSDO30	SDO	7/6/2023, 8:03 AM	No	Yes	Yes	Yes	Sunny	75	> 24 Hours	< 0.1 in.	8:11 AM	Outfall
30JSDO6	SDO	7/6/2023, 9:36 AM	No	Yes	Yes	Yes	Sunny	80	> 24 Hours	< 0.1 in.	8:11 AM	Outfall
30PSDO107	SDO	3/13/2023, 1:33 PM	No	Yes	Yes	Yes	Cloudy	40	> 24 Hours	< 0.1 in.	10:08	Manhole
30PSDO62 (30PMH55)	SDO	3/13/2023, 11:10 AM	No	Yes	No	No	Cloudy	40	> 24 Hours	< 0.1 in.	10:08	Manhole
30PSDO62 (30PMH60)	SDO	3/13/2023, 10:36 AM	No	Yes	No	No	Cloudy	40	> 24 Hours	< 0.1 in.	10:08	Manhole
31OSDO4	SDO	3/13/2023, 9:13 AM	No	Yes	No	No	Cloudy	39	> 24 Hours	< 0.1 in.	10:08	Manhole
31PSDO84	SDO	3/13/2023, 8:30 AM	No	Yes	Yes	Yes	Cloudy	38	> 24 Hours	< 0.1 in.	10:08	Outfall

OUTFALL OBSERVATIONS

Facility ID	Is There Flow	If Flow Velocity	If Submerged Percent	Sediment Depth percent	Depth Water plus Sed percent	Odor	Color	Turbidity	Floatables	Deposits Stains
21MSDO50	Flow	Slow		5	10	SaltWa	Clear	Clear	Other	None
21NCSO80										
22CSDO384	Flow	Heavy		2	20	None	Clear	Clear	None	None
22KCSO065	Standing Water	NA		0	30	None	Clear	Clear	None	None
22KCSO068	Flow	Moderate		0	40	None	Clear	Clear	None	None
22KCSO072	Flow	Slow		0		None	Clear	Clear	None	None
22LCSO073	Submerged	NA	95	0	95	SaltWa	Clear	Clear	None	None
22LSDO580	Dry	NA		0	0	None				None
23BMH89										
23GSDO132	Submerged	NA	50	5	50	None	Clear	Clear	None	None
23HMH81										
23HSDO040	Submerged	NA	100		100	None	Clear	Clear	Garbag	Unknown
23HSDO042	Submerged	NA	100	0	100	None	Clear	Clear	None	None
23LCSO062	Flow	Slow		0	50	SaltWa	Clear	Clear	None	None
23LCSO064	Submerged	NA	100	0	100					
23LSDO074	Submerged	NA	100							
23LSDO075 (23LMH375)	Submerged	NA	100	0	100	None				
23LSDO075 (23LMH80)	Submerged	NA	100							
23LSDO15	Submerged	NA	5	0	5	None	Clear	Clear	None	None
23LSDO164	Flow	Moderate		0	2	None	Grey	Cloudy	None	None
23LSDO195	Flow	Moderate			2	None	Clear		None	None
23LSDO196	Submerged	NA	100							
23LSDO202	Flow	Moderate			40	None	Clear	Clear	None	
24CSDO174	Flow	Moderate		1	5	None	Clear	Clear	None	None
24CSDO39										
24DSDO032	StandingWater	NA		10	50	None	Clear	Clear	None	None
24DSDO150	Dry	NA				None			None	None
24GSDO034	Submerged	NA	100		100	None	Clear	Clear	None	None
24GSDO035	Dry	NA		0	0	None			None	None
24LCSO060	Submerged	NA	100	0	100					
24LSDO22	Submerged	NA	100	0	100	None	Clear	Clear	None	None
24LSDO233	Flow	Moderate		0	10					
24NCSO003	Submerged	NA	100	0	100	SaltWa	Clear	Clear	None	Unknown
25DSDO040	Submerged	NA	60	0	60	None	Clear	Clear	None	None
25ESDO037	Submerged	NA	100	0	100	None	Clear	Clear	None	None
25GSDO041	Flow	Moderate		3	5	None	Clear	Clear	None	None
25LCSO057	Standing Water	NA		0	20	None	Clear	Clear	None	None
25LSDO058	Flow	Moderate		0	15	SaltWa	Clear	Clear	None	None
25LSDO144	Flow	Moderate		5	1	SaltWa	Clear	Clear	None	None
25MCSO005	Flow	Moderate		15	20	None	Clear	Clear	None	Sediments
25MSDO006	Flow	Heavy		0	50	None	Clear	Clear	None	None
25MSDO007										
25NCSO004	Flow	Slow		5	75	None	Clear	Clear	None	None
26FSDO038	Submerged	NA	100		100	None	Clear		Garbag	Unknown
26GSDO01	Submerged	NA	100	0	100	None	Clear	Clear	None	Unknown
26JSDO049	Submerged	NA	100		100					
26JSDO052	Submerged	NA	100	0	100	None	Clear	Clear	None	None
26JSDO101	Submerged	NA	100	0	100					
26KSDO050	Submerged	NA	100	0	100					
26KSDO052										
26KSDO099										Unknown
26KSDO254	Submerged	NA	100	0	100					
26KSDO35	Flow	Moderate		1	15	SaltWa	Clear	Clear	None	None
26LCSO009	Flow	Slow		2	10	None	Clear	Clear	None	None
26LSDO084	Flow	Slow		75	78	None	Clear	Clear	None	None
26LSDO106										
26LSDO109	Submerged	NA	50	0	50	None	Clear	Clear	None	None
26LSDO70	Submerged	NA	100		100	None	Clear	Clear	None	Unknown
27JSDO001	Submerged	NA	100	10	100					
27JSDO044	Submerged	NA	100	0	100					
27JSDO096	Submerged	NA	100	10	100					
27LCSO10	Submerged	NA	25	0	25	None	Clear	Clear	None	None
27LSDO020/27LSDO022	Submerged	NA	100		100					
28IMH015										
28KSDO010	StandingWater	NA			100	None	Clear	Clear	None	Unknown
28KSDO386	Submerged	NA	100		100	None	Clear	Clear	None	Unknown
28KSDO61	Flow	Slow		10	70	None	Clear	Clear	None	Unknown
28LCSO012	Flow	Slow		0	25	None	Clear	Clear	None	None
28LCSO019										
28LSDO073										
28LSDO074	Flow	Heavy		0	70	None	Clear	Clear	None	None
28LSDO077										
28NSDO156	Dry	NA		0	0	None				None
28NSDO207	Flow	Moderate		0	2	SaltWa	Clear	Clear	None	Other
28OSDO25	Flow	Moderate		3	10	None	Clear	Clear	None	None
28PSDO1	Flow	Slow		0	3	None	Clear	Clear	None	None
29JCSO017	Flow	Slow		8	60	SaltWa	Clear	Clear	None	None
29JSDO029	Flow	Slow		0	0	SaltWa	Clear	Clear	None	None
29JSDO129	Dry	NA		5	5	None				None
29JSDO212	Flow	Heavy		0	25	None	Clear	Clear	None	None
29MCSO013	Flow	Slow		0	1	SaltWa	Clear	Clear	None	None
29MSDO049	Flow	Moderate		0	1	None	Clear	Clear	None	None
29NCSO014	StandingWater	NA		10	40	Musty	Yellow	Cloudy	None	None
29NSDO015	StandingWater	NA		0	10	SaltWa	Clear	Clear	None	None
29NSDO135	Flow	Slow		0	1	SaltWa	Clear	Clear	None	None
29OSDO001	Submerged	NA	100	0	100	SaltWa	Clear	Clear	None	None
29PSDO005	StandingWater	NA		10	50	None	Clear	Clear	None	Sediments
29PSDO44	Flow	Moderate		0	1	None	Clear	Clear	None	Sediments
30JSDO19	Flow	Slow		0	5	None	Clear	Clear	None	None
30JSDO30	Flow	Heavy		5	10	None	Clear	Clear	None	Unknown
30JSDO6	Flow	Moderate		0	5	Musty	Clear	Clear	None	None
30PSDO107	Submerged	NA	75	0	75	None	Grey	Clear	None	Unknown
30PSDO62 (30PMH55)										
30PSDO62 (30PMH60)										
31OSDO4										
31PSDO84	Flow	Slow		1	4	None	Clear	Cloudy	Other	Sediments

MANHOLE OBSERVATIONS

Facility ID	Manhole Facility ID	Is There Flow	If Flow Velocity	Sediment Depth percent	Depth Water plus Sed percent	Odor	Color	Turbidity	Floatables	Deposits Stains
21MSDO50										
21NCSO80	20NMH112	Flow	Slow			Musty	Clear	Clear	None	None
22CSDO384										
22KCSO065	22KMH197	Flow	Moderate			None	Clear	Clear	None	None
22KCSO068										
22KCSO072	22KMH418	Dry	NA			None				None
22LCSO073	22LMH447	Flow	Moderate			None	Clear	Clear	None	None
22LSDO580										
23BMH89	23BMH89	Flow	Slow			None	Clear	Suspended Solids	None	None
23GSDO132	23GMH93	Flow	Moderate			None	Clear	Clear	None	None
23HMH81	23HMH137	Standing	NA			None	Clear	Clear	None	None
23HSDO040	23HMH67	Flow	Heavy			None	Clear	Clear	None	None
23HSDO042	23HMH131	Standing	NA			None	Clear	Clear	OilySheen	None
23LCSO062										
23LCSO064	23LMH92	Flow	Slow			None	Clear	Clear	None	None
23LSDO074	23LMH87	Dry	NA			None			None	None
23LSDO075 (23LMH375)	23LMH375	Flow	Moderate			Musty	Clear	Clear	None	None
23LSDO075 (23LMH80)	23LMH80	Flow	Heavy			None	Clear	Clear	None	None
23LSDO15	Unmapped									
23LSDO164	23LMH163	Flow	Moderate			None	Clear	Suspended Solids	None	None
23LSDO195	23LMH217	Flow	Moderate			None	Clear	Clear	None	None
23LSDO196	23LMH537	Standing	NA			None	Clear	Clear	None	None
23LSDO202	23LMH203	Flow	Moderate			None	Clear	Clear	None	None
24CSDO174										
24CSDO39	24CMH251	Flow	Heavy			None	Clear	Clear	None	None
24DSDO032	24DMH337	Standing	NA			None	Clear	Clear	Garbag	Unknown
24DSDO150										
24GSDO034	25GMH10	Standing	NA			Musty	Clear	Cloudy	OilyShe	None
24GSDO035										
24LCSO060	24LMH250	Standing	NA			None	Clear	Clear	None	Sediments
24LSDO22	24LMH437	Flow	Moderate			None	Clear	Clear	None	None
24LSDO233	24LMH396	Flow	Moderate			Musty	Clear	Clear	None	None
24NCSO003	SDE00002MI	Standing	NA			None	Clear	Clear	None	None
25DSDO040	25DMH23	Flow	Slow			None	Clear	Cloudy	None	None
25ESDO037	25EMH131	Standing	NA			None	Clear	Clear	None	Unknown
25GSDO041										
25LCSO057	25LMH97	Standing	NA			None	Clear	Clear	None	None
25LSDO058										
25LSDO144										
25MCSO005										
25MSDO006										
25MSDO007	25MMH117	Standing	NA			None	Clear	Clear	None	
25NCSO004										
26FSDO038	26FMH37	Standing	NA			None	Clear	Clear	Garbag	None
26GSDO01	26GMH2	Flow	Slow			None	Clear	Clear	Garbag	None
26JSDO049	26JMH144	Flow	Moderate			Sewag	Clear	Clear	None	None
26JSDO052	SDE00007MI	Dry	NA			None				None
26JSDO101	26JMH87	Standing	NA			None	Clear	Clear	None	None
26KSDO050	26KMH317	Standing	NA			None	Clear	Clear	None	None
26KSDO052	26KMH533	Dry	NA			None	Clear	Clear	None	None
26KSDO099	27KMH377	Flow	Moderate			None	Yellow	Cloudy	Garbag	None
26KSDO254	26KMH629	Flow	Slow			Rotten	Clear	Clear	None	None
26KSDO35										
26LCSO009										
26LSDO084										
26LSDO106	26LMH177	Flow	Slow			None	Clear	Clear	Garbag	None
26LSDO109	SDE00005MI	Flow	Slow			None	Clear	Clear	None	None
26LSDO70	26LMH157	Flow	Slow			None	Clear	Clear	None	None
27JSDO001	27JMH17	Flow	Slow			None	Clear	Clear	None	None
27JSDO044	27JMH46	Standing	NA			None	Clear	Clear	None	None
27JSDO096	27JMH95	Standing	NA			None	Yellow	Cloudy	Other	Unknown
27LCSO10	27LMH127	Flow	Moderate			None	Clear	Clear	None	None
27LSDO020/27LSDO022	27LMH70	Flow	Heavy			None	Clear	Clear	Other	None
28IMH015	28IMH12	Dry	NA			None				Sediments
28KSDO010	28KMH57	Flow	Heavy			None	Clear	Clear	None	Sediments
28KSDO386	CH69097	Flow	Moderate			None	Clear	Clear	Garbag	None
28KSDO61										
28LCSO012										
28LCSO019	28LMH7	Standing	NA			None	Clear	Clear	None	None
28LSDO073	28LMH78	Dry	NA			None			None	None
28LSDO074	28LMH31	Flow	Moderate			Oil	Clear	Clear	OilyShe	Oil
28LSDO077										
28NSDO156										
28NSDO207										
28OSDO25										
28PSDO1										
29JCSO017										
29JSDO029										
29JSDO129										
29JSDO212										
29MCSO013										
29MSDO049										
29NCSO014										
29NSDO015	29NMH148	Standing	NA			Salt W	Clear	Clear	OilyShe	None
29NSDO135										
29OSDO001	29OMH161	Flow	Slow			Salt W	Yellow	Clear	None	None
29PSDO005	29PCB63	Dry	NA	0	0	None			Garbag	None
29PSDO44										
30JSDO19										
30JSDO30										
30JSDO6										
30PSDO107	30PMH106	Flow	Slow			None	Clear	Clear	Other	None
30PSDO62 (30PMH55)	30PMH55	Standing	NA			None	Clear	Clear	None	Sediments
30PSDO62 (30PMH60)	30PMH60	Flow	Slow			Oil	Orange	Cloudy	OilyShe	Oil
31OSDO4	31OMH13	Flow	Moderate			None	Clear	Clear	Other	None
31PSDO84										

OUTFALL CONDITION

Facility ID	Pipe Shape	Pipe Material	Needs Repair	Needs Cleaning	Pipe End Debris	Pipe End Broken Collapsed	Bar Screen Needs Cleared	Bar Screen Broken Missing Deter	Head Wall Corroded Pit Spall	Rip Rap Debris Deposition	Rip Rap Broken Missing	Tide Gate Broken Missing	Outfall Condition Comments
21MSDO50		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching spot	NA	NA	NA	
21NCSO80													
22CSDO384		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
22KCSO065		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
22KCSO068		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
22KCSO072		Other	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
22LCSO073		Concrete	No	No	0 - No	0 - No	NA	NA	2 - Mod: generally et	NA	NA	NA	
22LSDO580		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching spot	NA	NA	0 - No	
23BMH89													
23GSDO132		Concrete	No	No	1 - Min: <1	0 - No	NA	NA	1 - Min: etching spot	NA	NA	NA	
23HMH81													
23HSDO040													
23HSDO042													
23LCSO062		Concrete	No	No	0 - No	0 - No	NA	NA	2 - Mod: generally et	0 - No	NA	NA	
23LCSO064													
23LSDO074													
23LSDO075 (23LMH375)													
23LSDO075 (23LMH80)													
23LSDO15													
23LSDO164													
23LSDO195		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
23LSDO196													
23LSDO202		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
24CSDO174		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
24CSDO39													
24DSDO032		Concrete	No	No	0 - No	0 - No	NA	NA	2 - Mod: generally et	NA	NA	NA	
24DSDO150		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
24GSDO034													
24GSDO035		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
24LCSO060													
24LSDO22													
24LSDO233													
24NCSO003		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching spot	NA	NA	0 - No	
25DSDO040		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching spot	NA	NA	NA	
25ESDO037		Concrete	No	No	0 - No	0 - No	NA	NA	3 - Maj: advanced et	NA	NA	NA	
25GSDO041		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	Small crack w
25LCSO057		Concrete	No	No	0 - No	0 - No	0 - No	0 - No	0 - No	NA	NA	NA	
25LSDO058		Concrete	No	No	0 - No	0 - No	0 - No	0 - No	0 - No	NA	NA	NA	
25LSDO144		Concrete	No	No	0 - No	0 - No	NA	NA	NA	0 - No	0 - No	NA	
25MCSO005		Concrete	No	No	1 - Min: <1	0 - No	NA	NA	0 - No	NA	NA	NA	
25MSDO006		Concrete	No	No	0 - No	0 - No	NA	NA	NA	0 - No	NA	NA	
25MSDO007													
25NCSO004		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	0 - No	
26FSDO038													
26GSDO01													
26JSDO049													
26JSDO052		Concrete	No	No	1 - Min: <1	0 - No	NA	NA	0 - No	NA	NA	NA	
26JSDO101													
26KSDO050													
26KSDO052													
26KSDO099													
26KSDO254													
26KSDO35		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching spot	NA	NA	NA	
26LCSO009		Concrete	No	No	0 - No	0 - No	NA	NA	NA	1 - Min: <1gal	0 - No	NA	
26LSDO084		Concrete	No	Yes	NA	NA	NA	NA	NA	4 - Extreme: >	NA	NA	
26LSDO106													
26LSDO109		Concrete	No	No	NA	NA	NA	NA	NA	NA	NA	NA	
26LSDO70													
27JSDO001													
27JSDO044													
27JSDO096													
27LCSO10		Concrete	No	No	0 - No	0 - No	0 - No	0 - No	NA	0 - No	0 - No	NA	
27LSDO020/27LSDO022													
28IMH015													
28KSDO010		Other	No	No	2 - Mod: 1	NA	NA	NA	NA	0 - No	0 - No	NA	Partially subr
28KSDO386													
28KSDO61		Concrete	No	No	1 - Min: <1	0 - No	NA	NA	0 - No	0 - No	0 - No	NA	
28LCSO012		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
28LCSO019		Concrete	No	No	1 - Min: <1	0 - No	0 - No	NA	0 - No	1 - Min: <1gal	NA	NA	
28LSDO073													
28LSDO074		Metal	No	No	0 - No	3 - Yes, Broken	NA	0 - No	0 - No	0 - No	0 - No	0 - No	Was unable t
28LSDO077													
28NSDO156		Concrete	Yes	No	0 - No	3 - Yes, Broken	NA	NA	NA	NA	NA	NA	
28NSDO207		Concrete	No	No	0 - No	0 - No	NA	NA	2 - Mod: generally et	NA	NA	NA	
28OSDO25		Concrete	No	No	0 - No	0 - No	0 - No	0 - No	NA	0 - No	0 - No	NA	
28PSDO1		Metal	No	No	0 - No	0 - No	NA	NA	3 - Maj: advanced et	NA	NA	NA	
29JCSO017		Concrete	No	No	0 - No	0 - No	NA	NA	NA	0 - No	0 - No	NA	
29JSDO029		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	Can climb do
29JSDO129		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	0 - No	0 - No	0 - No	
29JSDO212		Concrete	No	No	0 - No	0 - No	NA	NA	NA	0 - No	0 - No	NA	
29MCSO013		Concrete	No	No	0 - No	0 - No	NA	NA	NA	1 - Min: <1gal	2 - Mod: 2-4 b	NA	
29MSDO049		Concrete	No	No	1 - Min: <1	0 - No	0 - No	0 - No	NA	1 - Min: <1gal	0 - No	NA	
29NCSO014		Concrete	No	No	2 - Mod: 1	0 - No	0 - No	1 - Min: broke	1 - Min: etching spot	NA	NA	NA	
29NSDO015		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
29NSDO135		Concrete	No	No	0 - No	0 - No	NA	NA	NA	1 - Min: <1gal	0 - No	NA	
29OSDO001													
29PSDO005		VC	No	No	1 - Min: <1	0 - No	NA	NA	1 - Min: etching spot	NA	NA	NA	
29PSDO44		Metal	No	No	0 - No	0 - No	NA	NA	2 - Mod: generally et	NA	NA	NA	
30JSDO19		Metal	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
30JSDO30		Concrete	No	No	1 - Min: <1	0 - No	0 - No	0 - No	0 - No	0 - No	0 - No	NA	
30JSDO6		Metal	No	No	0 - No	0 - No	NA	NA	NA	0 - No	0 - No	NA	
30PSDO107		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	Submerged
30PSDO62 (30PMH55)													
30PSDO62 (30PMH60)													
31OSDO4													
31PSDO84		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching spot	0 - No	0 - No	NA	

SAMPLING DATA

Facility ID	Samples Collected	If No Reason	Other Reason No Sample	Surfactants	Ammonia	Chlorine	pH	Conductivity	Temperature	Salinity	Outfall Comments	MH Comments	Bacteria Type	Bacteria Result	Bacteria Duplicate Sample Collect	Bacteria Duplicate Sample Result
21MSDO50	Yes			1.5	0.3	0	7.56	16740	23.8	9.9			Enterococci	6,400	No	
21NCSO80	Yes			1	0.1	0.1	7.75	5420	22.9	2.9			Enterococci	230	No	
22CSDO384	Yes			0.5	0.1	0.1	7.51	819	4.7	0.4			E.coli	10	No	
22KCSO065	Yes			3	1	0	7.33	-999	22.4	-999			Enterococci	4,900	No	
22KCSO068	Yes			0.75	0.1	0	7.25	5290	20.5	7.25			Enterococci	2,100	No	
22KCSO072	No	No Flow														
22LCSO073	Yes			1	0.1	0	7.52	-999	25.5	-999			Enterococci	1,500	No	
22LSDO580	No	No Flow														
23BMH89	Yes			0	4	0	6.71	909	25.6	0.4			E.coli	>80000	No	
23GSDO132	Yes			0.25	3	0	7.18	273	24.2	0.1	Took sample upstream at 23GMH93	Sampled from W inlet as S inlet was standing wa	E.coli	28,000	No	
23HMH81	No	Standing Water														
23HSDO040	Yes			0.5	5	0.1	7.37	3930	24.1	2.1			E.coli	<10	No	
23HSDO042	No	Standing Water														
23LCSO062	Yes			3	0.1	0	7.39	-999	22.9	-999			Enterococci	60	No	
23LCSO064	Yes			1.5	0.1	0	7.42	9390	23.2	4.8			Enterococci	260	No	
23LSDO074	No	No Flow										Inlets dry				
23LSDO075 (23LMH375)	Yes			2	0	0	7.32	-999	22.5	-999		Most of sample was infiltration.	Enterococci	320	No	
23LSDO075 (23LMH80)	Yes			2	0	0	7.53	-999	22.4	-999		Southwest inlet standing water at upstream mar	Enterococci	4,400	No	
23LSDO15	Yes			0	0	0	7.23	13820	20.6	8	Sampled from an unmapped manhole the the NW of 23LMH501.		Enterococci	60	No	
23LSDO164	Yes			2	0	0	7.6	-999	22.7	-999			Enterococci	330	No	
23LSDO195	Yes			1	0.25	0	7.8	10550	22.9	6			Enterococci	90	No	
23LSDO196	No	Standing Water														
23LSDO202	Yes			2	0	0.1	7.45	-999	21.1	-999			Enterococci	45	No	
24CSDO174	Yes			0.5	0	0	7.09	2760	8.7	1.4			E.coli	1,200	No	
24CSDO39	Yes			0.75	0.1	0	7.78	2420	5.4	1.2	Moved upstream, outfall could not be located.		E.coli	110	Yes	90
24DSDO032	No	Standing Water									Moved upstream.					
24DSDO150	No	No Flow														
24GSDO034	No	Standing Water									Outfall is 100% submerged	Water seems to slowly flow backward				
24GSDO035	No	No Flow														
24LCSO060	No	Standing Water														
24LSDO22	Yes			2	0	0	7.42	-999	30.8	-999			Enterococci	160	No	
24LSDO233	Yes			3	0	0	8.28	19240	23.6	-999	Outfall under weir, unable to get to i	Outfall under weir and could not be accessed, sa	Enterococci	110	No	
24NCSO003	No	Standing Water														
25DSDO040	Yes			0.75	1	0	7	2570	25.5	1.3	Went upstream to 25DMH23 for sample.		E.coli	1,000	No	
25ESDO037	No	Standing Water														
25GSDO041	Yes			0.25	0.8	0.1	7.15	2750	30.9	1.5			EColi	370	No	
25LCSO057	No	Standing Water														
25LSDO058	Yes			3	0	0	8.06	-999	20.7	-999			Enterococci	180	No	
25LSDO144	Yes			3	0.25	0	7.9	-999	20.1	-999			Enterococci	820	No	
25MCSO005	Yes			1	0.1	0	7.57	7180	10.6	3.5			Enterococci	10	No	
25MSDO006	Yes			3	0.1	0.1	7.33	-999	6.9	-999			Enterococci	<10	No	
25MSDO007	No	Standing Water									2nd upstream unmapped but also standing water					
25NCSO004	Yes			3	0	0	7.49	-999	9.3	-999			Enterococci	<10	No	
26FSDO038	No	Standing Water														
26GSDO01	Yes			3	0.2	0	7.55	1142	30.6	0.5			E.coli	190	No	
26JSDO049	Yes			0.25	3	0	7.43	1524	17.4	0.7	CNL either submerged or may no lon	Mapping is off, flow (which falls over tide gate) c	Enterococci	1,500	No	
26JSDO052	No	No Flow										Some standing water at the bottom of the manhole but inlet was observed dry.				
26JSDO101	No	Standing Water														
26KSDO050	No	Standing Water														
26KSDO052	No	No Flow														
26KSDO099	Yes			2	0.2	0.1	7.59	10	21.2	0			Enterococci	2,600	No	
26KSDO254	Yes			1	0.2	0	6.77	-999	23.4	-999			Enterococci	240	No	
26KSDO35	Yes			3	0.2	0	6.9	-999	25	-999			Enterococci	140	No	
26LCSO009	Yes			1.5	0	0	7.3	-999	9.3	-999			Enterococci	<10	No	
26LSDO084	Yes			3	0.1	0	7.55	-999	5.8	-999			Enterococci	<10	No	
26LSDO106	Yes			3	0	0	7.52	-999	21.1	-999			Enterococci	730	No	
26LSDO109	Yes			3	0.1	0	7.15	-0.999	6.4	-0.999			Enterococci	40	No	
26LSDO70	Yes			3	0	0.1	7.59	-999	21.9	-999	In private coast guard area, need an	First two upstream manholes in private area tha	Enterococci	55	No	
27JSDO001	Yes			0.25	0.2	0	6.47	594	23.1	0.3			Enterococci	320	No	
27JSDO044	No	Standing Water														
27JSDO096	No	StandingWater														
27LCSO10	Yes			2	0	0	7.07	-999	10.2	-999	Continued upstream.		Enterococci	40	No	
27LSDO020/27LSDO022	Yes			2	0.1	0	6.8	-999	25.4	-999			Enterococci	410	No	
28IMH015	No	No Flow														
28KSDO010	Yes			3	0	0	7.35	-999	15.8	-999			Enterococci	160	No	
28KSDO386	Yes			3	0.1	0	7.91	-999	16.1	-999		Took a duplicate	Enterococci	50	Yes	20
28KSDO61	Yes			3	0.1	0	7.62	-9999	15.2	-9999			Enterococci	450	No	
28LCSO012	Yes			1.5	0.1	0	7.64	-999	14.4	-999			Enterococci	<10	No	
28LCSO019	No	No Flow									Could see outfall from harbor walk but could not see up into it, although it was not flowing out					
28LSDO073	No	No Flow														
28LSDO074	Yes			3	0	0	7.35	-999	16.4	-999			Enterococci	1,800	No	
28LSDO077	No	Other	Unable to locate outfall or upstream structures													
28NSDO156	No	No Flow														
28NSDO207	Yes			3	0	0	7.28	-999	8.3	-999			Enterococci	60	No	
28OSDO25	Yes			3	0	0	7.38	-999	6.8	-999			Enterococci	30	No	
28PSDO1	Yes			1.5	0.2	0	7.92	5430	8.2	2.6			Enterococci	5,900	No	
29JCSO017	Yes			1	0.2	0.1	7.37	17900	19.6	-999			Enterococci	310	Yes	370
29JSDO029	Yes			3	0	0	8.35	-999	23.9	-999			Enterococci	<10	No	
29JSDO129	No	No Flow														
29JSDO212	Yes			3	0.25	0	7.94	-999	22.2	-999			Enterococci	400	Yes	600
29MCSO013	Yes			3	2	0	7.92	10560	15.6	6			Enterococci	1,300	No	
29MSDO049	Yes			3	0.2	0.1	7.73	-999	10.9	-999			Enterococci	120	No	
29NCSO014	No	Standing Water									Outfall observed with very cloudy standing water. No upstream manholes before the regulator to inspect / sample.					
29NSDO015	No	Standing Water														
29NSDO135	Yes			3	0.1	0.1	7.85	-999	13.4	-999			Enterococci	20	No	
29OSDO001	Yes			2	2	0	7.35	3630	8.7	1.7			Enterococci	170	Yes	140
29PSDO005	No	No Flow										Garbage floating in sump.				
29PSDO44	Yes			2	0	0	7.78	13100	7.4	6.6			Enterococci	<10	No	
30JSDO19	Yes			3	0	0	7.43	-999	25.3	-999			Enterococci	40	No	
30JSDO30	Yes			3	0	0	7.53	12340	25.3	5.6			Enterococci	5,500	No	
30JSDO6	Yes			3	0	0	7.04	-999	30	-999			Enterococci	2,700	No	
30PSDO107	Yes			0.5	0.1	0	7.92	1406	7.9	0.7		Flow from SE, standing water in SW. Went upstr	Enterococci	70	No	
30PSDO62 (30PMH55)	No	Standing Water										Most upstream visited MH on SW line				
30PSDO62 (30PMH60)	Yes			0.5	0.3	0	7.78	4150	7.5	2.1		Flow from NW pipe. Standing water in SW pipe	Enterococci	<10	No	
31OSDO4	Yes			0.5	0	0	7.89	3510	7.9	1.8			Enterococci	70	No	
31PSDO84	Yes			1.5	0.1	0	7.57	-999	5.5	-999			Enterococci	10	No	

APPENDIX D. WET WEATHER SCREENING RESULTS JANUARY 1, 2023 THROUGH DECEMBER 31, 2023

Updated: 1/17/2024

GENERAL INFORMATION

Facility ID	Location Type	Inspection Date	Outfall Sign	Tidal Impact	Outfall Located	Outfall Accessible	Weather	Air Temp F	Time Since Last Rain	Quantity Rain24h	Time Low Tide	Sampling Location
01ESDO24	SDO	8/30/2023, 11:20 AM	No	No	Yes	Yes	Raining	72	< 24 Hours	>= 0.25 in.		Outfall
01FSDO31	SDO	10/30/2023, 9:02 AM	No	No	No	No	Raining	51	< 24 Hours	>= 0.25 in.		Manhole
02ESDO5	SDO	8/30/2023, 11:23 AM	No	No	Yes	Yes	Cloudy	72	< 24 Hours	>= 0.25 in.		Manhole
02FMH120	Interconn	12/18/2023, 9:26 AM										Manhole
02FSDO85	SDO	8/15/2023, 3:42 PM	No	No	Yes	Yes	Raining	68	< 24 Hours	>= 0.25 in.		Manhole
02FSDO93	SDO	10/30/2023, 9:31 AM	No	No	No	No	Raining	52	< 24 Hours	>= 0.25 in.		Manhole
03ESDO185	SDO	8/15/2023, 3:39 PM	Yes	No	Yes	Yes	Raining	68	< 24 Hours	>= 0.25 in.		Outfall
03ESDO186	SDO	12/11/2023, 9:41 AM	No	No	No	Yes	Raining	43	< 24 Hours	>= 0.25 in.		Manhole
03ESDO207	SDO	9/25/2023, 10:06 AM	No	No	Yes	Yes	Raining	60	< 24 Hours	>= 0.25 in.		Outfall
04ESDO64	SDO	8/15/2023, 1:18 PM	No	No	Yes	Yes	Raining	68	< 24 Hours	>= 0.25 in.		Outfall
04ESDO69	SDO	8/15/2023, 3:32 PM	Yes	No	Yes	Yes	Raining	68	< 24 Hours	>= 0.25 in.		Manhole
04FSDO1	SDO	8/15/2023, 10:00 AM	No	No	No	No	Raining	68	< 24 Hours	>= 0.25 in.		Manhole
04FSDO118	SDO	9/25/2023, 9:35 AM	No	No	Yes	Yes	Raining	59	< 24 Hours	>= 0.25 in.		Outfall
04FSDO16	SDO	9/25/2023, 10:58 AM	No	No	Yes	Yes	Raining	60	< 24 Hours	>= 0.25 in.		Outfall
04FSDO189	SDO	8/15/2023, 9:57 AM	Yes	No	Yes	Yes	Raining	68	< 24 Hours	>= 0.25 in.		Manhole
04FSDO203	SDO	9/13/2023, 5:34 PM	No	No	Yes	No	Raining	70	< 24 Hours	>= 0.25 in.		Manhole
04FSDO204	SDO	9/13/2023, 5:27 PM	No	No	No	No	Raining	70	< 24 Hours	>= 0.25 in.		Manhole
05ESDO180	SDO	8/8/2023, 10:37 AM	Yes	No	Yes	Yes	Raining	74	< 24 Hours	>= 0.25 in.		Outfall
05ESDO181	SDO	8/8/2023, 11:00 AM	Yes	No	Yes	Yes	Raining	74	< 24 Hours	>= 0.25 in.		Catch Basin
05ESDO182	SDO	8/8/2023, 12:46 PM	Yes	No	Yes	Yes	Cloudy	75	< 24 Hours	>= 0.25 in.		Manhole
05ESDO183	SDO	8/8/2023, 11:11 AM	Yes	No	Yes	Yes	Raining	75	< 24 Hours	>= 0.25 in.		Catch Basin
05ESDO184	SDO	8/8/2023, 11:31 AM	Yes	No	Yes	Yes	Cloudy	74	< 24 Hours	>= 0.25 in.		Outfall
05FSDO244	SDO	8/30/2023, 12:46 PM	Yes	No	Yes	Yes	Raining	77	< 24 Hours	>= 0.25 in.		Manhole
05FSDO245	SDO	8/30/2023, 1:42 PM	Yes	No	Yes	No	Raining	78	< 24 Hours	>= 0.25 in.		Manhole
05FSDO254	SDO	8/8/2023, 12:23 PM	No	No	Yes	Yes	Sunny	72	< 24 Hours	>= 0.25 in.		Outfall
05GSDO112	SDO	9/13/2023, 5:02 PM	No	No	No	No	Raining	70	< 24 Hours	>= 0.25 in.		Manhole
05GSDO115	SDO	9/13/2023, 5:19 PM	No	No	Yes	Yes	Raining	70	< 24 Hours	>= 0.25 in.		Outfall
05GSDO116	SDO	9/13/2023, 5:23 PM	No	No	Yes	Yes	Raining	70	< 24 Hours	>= 0.25 in.		Outfall
06CMH117	Interconn	12/18/2023, 9:00 AM										Manhole
06DSDO57	SDO	10/30/2023, 10:58 AM	No	No	No	No	Raining	52	< 24 Hours	>= 0.25 in.		Manhole
06DSDO83	SDO	9/18/2023, 12:45 PM	Yes	No	Yes	Yes	Raining	65	< 24 Hours	>= 0.25 in.		Outfall
06DSDO84	SDO	9/18/2023, 12:36 PM	No	No	No	No	Raining	66	< 24 Hours	>= 0.25 in.		Manhole
06DSDO85	SDO	9/18/2023, 1:34 PM	Yes	No	Yes	Yes	Raining	66	< 24 Hours	>= 0.25 in.		Outfall
06DSDO86	SDO	9/18/2023, 1:40 PM	Yes	No	Yes	No	Raining	65	< 24 Hours	>= 0.25 in.		Catch Basin
06DSDO91	SDO	10/30/2023, 11:20 AM	Yes	No	Yes	No	Raining	52	< 24 Hours	>= 0.25 in.		Catch Basin
06FSDO233	SDO	9/18/2023, 10:48 AM	No	No	Yes	Yes	Raining	68	< 24 Hours	>= 0.25 in.		Catch Basin
06HSDO106	SDO	9/18/2023, 10:20 AM	No	No	Yes	Yes	Raining	65	< 24 Hours	>= 0.25 in.		Outfall
06HSDO107	SDO	9/18/2023, 10:42 AM	No	No	Yes	Yes	Raining	65	< 24 Hours	>= 0.25 in.		Outfall
07HSDO346	SDO	6/28/2023, 9:00 AM	No	No	Yes	Yes	Raining	72	< 24 Hours	>= 0.25 in.		Outfall
07HSDO347	SDO	6/28/2023, 9:24 AM	Yes	No	Yes	Yes	Cloudy	72	< 24 Hours	>= 0.25 in.		Outfall
07HSDO348	SDO	6/28/2023, 9:40 AM	No	No	Yes	Yes	Cloudy	75	< 24 Hours	>= 0.25 in.		Outfall
08BSDO126	SDO	12/11/2023, 3:22 PM	No	No	No	No	Raining	43	< 24 Hours	>= 0.25 in.		Manhole
08CSDO25	SDO	1/23/2023, 9:06 AM	No	No	Yes	Yes	Raining	35	< 24 Hours	>= 0.25 in.		Outfall
08CSDO26	SDO	1/23/2023, 9:03 AM	No	No	Yes	Yes	Raining	35	< 24 Hours	>= 0.25 in.		Outfall
08ESDO33	SDO	1/23/2023, 9:29 AM	Yes	No	Yes	Yes	Raining	35	< 24 Hours	>= 0.25 in.		Outfall
08ESDO35	SDO	1/23/2023, 9:38 AM	Yes	No	Yes	Yes	Raining	35	< 24 Hours	>= 0.25 in.		Outfall
08FSDO1	SDO	1/23/2023, 9:59 AM	No	No	Yes	Yes	Raining	36	< 24 Hours	>= 0.25 in.		Outfall
08ISDO153	SDO	1/23/2023, 12:54 PM	Yes	No	Yes	Yes	Raining	35	< 24 Hours	>= 0.25 in.		Outfall
08ISDO154	SDO	1/23/2023, 11:47 AM	No	No	Yes	Yes	Raining	35	< 24 Hours	>= 0.25 in.		Outfall
08ISDO155	SDO	1/23/2023, 10:54 AM	Yes	No	Yes	Yes	Raining	35	< 24 Hours	>= 0.25 in.		Outfall
08ISDO156	SDO	1/23/2023, 10:52 AM	No	No	Yes	Yes	Raining	35	< 24 Hours	>= 0.25 in.		Outfall
08ISDO158	SDO	1/23/2023, 10:50 AM	Yes	No	Yes	Yes	Raining	36	< 24 Hours	>= 0.25 in.		Outfall
08ISDO207	SDO	1/23/2023, 12:09 PM	Yes	No	Yes	Yes	Raining	35	< 24 Hours	>= 0.25 in.		Outfall
08ISDO209	SDO	1/23/2023, 12:30 PM	Yes	No	Yes	Yes	Raining	35	< 24 Hours	>= 0.25 in.		Outfall
08JSDO102	SDO	9/13/2023, 5:50 PM	No	Yes	Yes	Yes	Cloudy	70	< 24 Hours	>= 0.25 in.	5:07	Outfall
08JSDO41	SDO	1/23/2023, 1:10 PM	No	No	Yes	Yes	Raining	35	< 24 Hours	>= 0.25 in.		Outfall
08KSDO49	SDO	9/13/2023, 5:47 PM	Yes	Yes	Yes	Yes	Cloudy	70	< 24 Hours	>= 0.25 in.	5:07 PM	Outfall
09BSDO49	SDO	8/25/2023, 8:59 AM	No	No	Yes	Yes	Raining	65	< 24 Hours	>= 0.25 in.		Outfall
09ESDO229	SDO	8/25/2023, 9:34 AM	No	No	No	No	Raining	65	< 24 Hours	>= 0.25 in.		Manhole
09ESDO243	SDO	3/14/2023, 9:44 AM	No	No	Yes	Yes	Raining	42	< 24 Hours	>= 0.25 in.		Outfall
09KSDO16	SDO	11/22/2023, 3:15 PM	No	Yes	No	No	Raining	51	< 24 Hours	>= 0.25 in.	12:29	Manhole
11BMH49	Interconn	11/22/2023, 8:19 AM										Manhole
11BSDO123	SDO	11/22/2023, 10:03 AM	No	No	No	No	Raining	48	< 24 Hours	>= 0.25 in.		Manhole
12BSDO10	SDO	10/30/2023, 12:03 PM	Yes	No	Yes	No	Raining	53	< 24 Hours	>= 0.25 in.		Manhole
12BSDO124	SDO	8/25/2023, 7:39 AM	Yes	No	Yes	Yes	Raining	64	< 24 Hours	>= 0.25 in.		Outfall
12BSDO14	SDO	11/22/2023, 8:37 AM	Yes	No	Yes	Yes	Raining	46	< 24 Hours	>= 0.25 in.		Manhole
12BSDO33	SDO	10/30/2023, 12:59 PM	No	No	No	No	Raining	53	< 24 Hours	>= 0.25 in.		Manhole
12FSDO305	SDO	8/30/2023, 9:34 AM	No	No	Yes	Yes	Raining	68	< 24 Hours	>= 0.25 in.		Manhole
12LMH304	Interconn	3/14/2023, 10:27 AM										Manhole
12LMH374	Interconn	3/14/2023, 10:05 AM										Manhole
13BSDO11	SDO	8/25/2023, 8:30 AM	Yes	No	Yes	Yes	Raining	64	< 24 Hours	>= 0.25 in.		Outfall
13ESDO174	SDO	8/30/2023, 10:07 AM	No	No	Yes	Yes	Raining	66	< 24 Hours	>= 0.25 in.		Outfall
13ESDO176	SDO	12/11/2023, 11:05 AM	No	No	Yes	Yes	Raining	44	< 24 Hours	>= 0.25 in.		Manhole
13FSDO95	SDO	8/30/2023, 10:38 AM	No	No	Yes	Yes	Raining	74	< 24 Hours	>= 0.25 in.		Manhole
13FSDO96	SDO	6/28/2023, 10:20 AM	No	No	Yes	Yes	Cloudy	72	< 24 Hours	>= 0.25 in.		Outfall
13FSDO97	SDO	6/28/2023, 10:25 AM	No	No	Yes	Yes	Cloudy	72	< 24 Hours	>= 0.25 in.		Outfall
14CSDO9	SDO	11/22/2023, 9:11 AM	Yes	No	Yes	Yes	Raining	46	< 24 Hours	>= 0.25 in.		Outfall
14EMH36	Interconn	8/15/2023, 10:19 AM										Manhole
17FSDO12	SDO	11/22/2023, 9:56 AM	Yes	No	Yes	Yes	Raining	46	< 24 Hours	>= 0.25 in.		Outfall
19GSDO199	SDO	11/22/2023, 10:33 AM	Yes	No	Yes	Yes	Raining	51	< 24 Hours	>= 0.25 in.		Catch Basin
19NCSO081	CSO	7/10/2023, 1:18 PM	Yes	Yes	Yes	Yes	Raining	69	< 24 Hours	0.1 in. to 0.25	11:47	Manhole
20DMH062	Interconn	3/14/2023, 8:45 AM										Manhole
20GSDO163	SDO	12/11/2023, 8:30 AM	No	No	Yes	No	Raining	44	< 24 Hours	>= 0.25 in.		Manhole
20GSDO164	SDO	12/11/2023, 8:45 AM	No	No	No	No	Raining	45	< 24 Hours	>= 0.25 in.		Catch Basin
21EMH86	Interconn	12/11/2023, 7:15 AM										Manhole
21HSDO047	SDO	12/11/2023, 7:11 AM	No	No	No	No	Raining	45	< 24 Hours	>= 0.25 in.		Manhole
21HSDO048	SDO	12/11/2023, 1:39 PM	No	No	No	No	Raining	45	< 24 Hours	>= 0.25 in.		Manhole
21KSDO069	SDO	12/11/2023, 4:00 AM	No	Yes	Yes	No	Raining	47	< 24 Hours	>= 0.25 in.	5:19	Manhole
23HMH81	Interconn	12/11/2023, 1:37 PM										Catch Basin
23HSDO040	SDO	12/11/2023, 6:20 AM	No	No	No	No	Raining	46	< 24 Hours	>= 0.25 in.		Manhole
23LSDO074	SDO	12/12/2023, 2:07 PM	No	Yes	No	No	Raining	47	< 24 Hours	>= 0.25 in.	5:19	Manhole
23LSDO15	SDO	12/11/2023, 4:00 AM	Yes	Yes	Yes	No	Raining	47	< 24 Hours	>= 0.25 in.	5:19	Manhole
24DSDO032	SDO	9/18/2023, 12:23 PM	Yes	No	Yes	Yes	Raining	65	< 24 Hours	>= 0.25 in.		Outfall
24DSDO150	SDO	9/18/2023, 1:05 PM	Yes	No	Yes	Yes	Raining	65	< 24 Hours	>= 0.25 in.		Outfall
24GSDO035	SDO	12/11/2023, 6:50 AM	No	No	No	No	Raining	46	< 24 Hours	>= 0.25 in.		Manhole
24LCSO060	CSO	7/10/2023, 3:59 PM	Yes	Yes	No	No	Raining	70	< 24 Hours	0.1 in. to 0.25	11:47	Manhole
25ESDO037	SDO	6/28/2023, 9:04 AM	No	No	Yes	Yes	Raining	71	< 24 Hours	>= 0.25 in.		Outfall
25LCSO057	CSO	7/10/2023, 1:22 PM	Yes	Yes	Yes	Yes	Raining	71	< 24 Hours	0.1 in. to 0.25	11:47	Manhole
26FSDO038	SDO	12/11/2023, 7:45 AM	No	No	No	No	Raining	45	< 24 Hours	>= 0.25 in.		Manhole
26JSDO052	SDO	3/14/2023, 8:50 AM	No	No	No	No	Raining	40	< 24 Hours	>= 0.25 in.		Manhole
26KSDO050	SDO	12/11/2023, 4:55 AM	No	Yes	No	No	Raining	47	< 24 Hours	>= 0.25 in.	5:19 AM	Manhole
26KSDO052	SDO	3/14/2023, 9:37 AM	No	Yes	No	No	Raining	40	< 24 Hours	>= 0.25 in.	11:03	Manhole
26KSDO099	SDO	12/11/2023, 12:44 PM	No	Yes	No	No	Raining	45	< 24 Hours	>= 0.25 in.	3:13	Manhole
26KSDO254	SDO	12/11/2023, 12:36 PM	No	Yes	No	No	Raining	45	< 24 Hours	>= 0.25 in.	3:19	Manhole
26LSDO106	SDO	12/11/2023, 4:30 AM	Yes	Yes	No	No	Raining	48	< 24 Hours	>= 0.25 in.	5:19 AM	Manhole
26LSDO70	SDO	12/11/2023, 4:45 AM	No	Yes	No	No	Raining	47	< 24 Hours	>= 0.25 in.	5:19	Manhole
27JSDO044	SDO	12/11/2023, 1:19 PM	No	Yes	No	No	Raining	45	< 24 Hours	>= 0.25 in.	3:19	Manhole
28IMH15	Interconn	12/11/2023, 6:10 AM										Manhole
28LCSO019	CSO	7/10/2023, 11:19 AM	Yes	Yes	Yes	Yes	Raining	69	< 24 Hours	0.1 in. to 0.25	11:47	Outfall
28LSDO073	SDO	12/11/2023, 12:55 PM	No	Yes	No	No	Raining	45	< 24 Hours	>= 0.25 in.	3:19	Manhole
28NSDO156	SDO	3/14/2023, 9:47 AM	No	Yes	Yes	Yes	Raining	39	< 24 Hours	>= 0.25 in.	11:03	Outfall
29JCSO017	CSO	11/22/2023, 11:00 AM	No	Yes	Yes	Yes	Raining	48	< 24 Hours	>= 0.25 in.	12:29	Outfall
29JSDO029	SDO	12/11/2023, 6:46 AM	No	Yes	Yes	Yes	Raining	35	< 24 Hours	>= 0.25 in.	3:19	Outfall
29JSDO129	SDO	12/11/2023, 6:42 AM	No	Yes	Yes	Yes	Raining	35	< 24 Hours	>= 0.25 in.	3:19	Outfall
29NSDO015	SDO	3/14/2023, 10:17 AM	No	Yes	Yes	Yes	Raining	39	< 24 Hours	>= 0.25 in.	11:03	Outfall
29PSDO005	SDO	3/14/2023, 8:19 AM	No	Yes	Yes	Yes	Raining	40	< 24 Hours	>= 0.25 in.	11:03	Manhole
30JSDO19	SDO	12/11/2023, 6:37 AM	Yes	Yes	Yes	Yes	Raining	35	< 24 Hours	>= 0.25 in.	3:19	Outfall
30PSDO107	SDO	3/14/2023, 9:24 AM	No	Yes	Yes	Yes	Raining	40	< 24 Hours	>= 0.25 in.	11:03	Outfall
30PSDO62	SDO	3/14/2023, 8:54 AM	No	Yes	No	No	Raining	40	< 24 Hours	>= 0.25 in.	11:03	Manhole
31PSDO84	SDO	3/14/2023, 9:10 AM	No	Yes	Yes	Yes	Raining	40	< 24 Hours	>= 0.25 in.	11:03	Outfall

OUTFALL OBSERVATIONS

Facility ID	Is There Flow	If Flow Velocity	If Submerged Percent	Sediment Depth percent	Depth Water plus Sed percent	Odor	Color	Turbidity	Floatables	Deposits Stains
01ESDO24	Flow	Slow		10	90	None	Clear	Clear	Garbage	None
01FSDO31										
02ESDO5	Standing Wat	NA		1	10	None	Clear	Clear	None	None
02FMH120										
02FSDO85	Standing Wat	NA		5	50	None	Clear	Clear	None	None
02FSDO93	Submerged	NA	100	0	100					
03ESDO185	Flow	Moderate		5	50	None	Clear	Clear	None	None
03ESDO186	Submerged	NA	100	0	100	None	Clear	Clear	None	Unknown
03ESDO207	Flow	Moderate		0	5	None	Grey	Clear	None	None
04ESDO64	Flow	Moderate		5	15	None	Clear	Clear	None	None
04ESDO69	Submerged	NA	90	0	90	None	Clear	Clear	None	None
04FSDO1	Submerged	NA	100	0	100					
04FSDO118	Flow	Moderate		0	5	None	Clear	Clear	None	None
04FSDO16	Flow	Moderate		20	80	None	Clear	Clear	Foam	None
04FSDO189	Submerged	NA	50	0	50	None	Clear	Clear	None	None
04FSDO203										
04FSDO204										
05ESDO180	Flow	Heavy		0	5	None	Yellow	Clear	None	None
05ESDO181	Submerged	NA	100	20	100	None	Clear	Clear	None	None
05ESDO182	Submerged	NA	100	0	100	None	Clear	Clear	None	Unknown
05ESDO183	Submerged	NA	100	0	100	None	Clear	Clear	None	Unknown
05ESDO184	Flow	Slow		10	50	None	Clear	Clear	None	None
05FSDO244	Standing Wat	NA		1	50	None	Clear	Clear	None	None
05FSDO245	Submerged	NA	100		100	None	Clear	Clear	None	None
05FSDO254	Flow	Heavy		0	30	None	Clear	Clear	None	None
05GSDO112										
05GSDO115	Flow	Heavy		0	5	Musty	Clear	Clear	None	None
05GSDO116	Flow	Heavy		0	10	None	Clear	Clear	None	None
06CMH117										
06DSDO57										
06DSDO83	Flow	Moderate		0	10	None	Clear	Clear	Foam	None
06DSDO84										
06DSDO85	Flow	Moderate		5	20	None	Clear	Clear	None	None
06DSDO86	Submerged	NA	100	5	100	None	Clear	Clear	None	Unknown
06DSDO91	Submerged	NA								
06FSDO233	Submerged	NA	100	5	100	None	Clear	Clear	Garbage	Unknown
06HSDO106	Dry	NA		0	0	None			None	Sediments
06HSDO107	Dry	NA		0	0	None			None	None
07HSDO346	Flow	Heavy		0	1	Musty	Clear	Clear	None	None
07HSDO347	Flow	Heavy		0	1	Musty	Clear	Clear	None	None
07HSDO348	Flow	Heavy		0	3	Musty	Clear	Clear	None	None
08BSDO126										
08CSDO25	Flow	Moderate		5	50	None	Clear	Clear	None	None
08CSDO26	Flow	Slow		5	50	None	Clear	Clear	None	None
08ESDO33	Flow	Heavy		0	10	None	Clear	Clear	None	None
08ESDO35	Flow	Slow		5	10	None	Clear	Clear	None	None
08FSDO1	Flow	Slow		5	70	None	Clear	Clear	None	None
08ISDO153	Flow	Slow		0	1	None	Clear	Clear	None	None
08ISDO154	Flow	Moderate		0	10	None	Clear	Clear	None	None
08ISDO155	Flow	Moderate		0	5	None	Grey	Cloudy	None	Sediments
08ISDO156	Flow	Moderate		0	5	None	Clear	Clear	None	None
08ISDO158	Flow	Moderate		0	5	None	Clear	Cloudy	None	None
08ISDO207	Flow	Moderate		0	5	None	Clear	Clear	None	None
08ISDO209	Flow	Slow		0	2	None	Clear	Clear	None	None
08JSDO102	Flow	Moderate		0	10	None	Clear	Clear	None	None
08JSDO41	Flow	Heavy		0	5	None	Clear	Clear	None	None
08KSDO49	Flow	Slow		0	1	None	Clear	Clear	None	None
09BSDO49	Flow	Slow		10	50	None	Clear	Clear	Garbage	None
09ESDO229										
09ESDO243	Flow	Heavy		0	3	None	Clear	Clear	None	None
09KSDO16										
11BMH49										
11BSDO123	Submerged	NA	100	0	100					
12BSDO10	Standing Wat	NA		0	10					
12BSDO124	Flow	Heavy		5	50	None	Clear	Clear	Other	None
12BSDO14	Standing Wat	NA	100	0	100	None	Clear	Clear	Other	None
12BSDO33										
12FSDO305	Standing Wat	NA		0	50	None	Clear	Clear	None	None
12LMH304										
12LMH374										
13BSDO11	Flow	Heavy		5	100	None	Clear	Clear	None	None
13ESDO174	Flow	Slow		0	1	None	Clear	Clear	None	None
13ESDO176	Submerged	NA	100	0	100	None	Clear	Clear	None	None
13FSDO95	Submerged	NA	100	0	100	None	Brown	Suspended	None	None
13FSDO96	Flow	Slow		0	0.05	None	Yellow	Clear	None	None
13FSDO97	Flow	Slow		0	0.05	None	Orange	Clear	None	None
14CSDO9	Flow	Moderate				None	Clear	Clear	None	None
14EMH36										
17FSDO12	Flow	Heavy				None	Clear	Clear	None	None
19GSDO199	Submerged	NA	100	0	100	None	Clear	Opaque	None	None
19NCSO081	Submerged	NA	100	0	100	None	Clear	Clear	None	None
20DMH062										
20GSDO163	Submerged	NA	100	0	100	None	Clear	Clear	None	Unknown
20GSDO164	Submerged	NA	100	0	100	None	Clear	Clear	None	Unknown
21EMH86										
21HSDO047	Submerged	NA	100							
21HSDO048	Submerged	NA	100	5	100	None	Clear	Clear	None	None
21KSDO069	Submerged	NA	100	0	100	SaltW	Clear	Clear	None	None
23HMH81										
23HSDO040	Submerged	NA	100		100	SaltW	Clear	Clear	None	None
23LSDO074	Submerged	NA	100							
23LSDO15	Submerged	NA	100	0	100	SaltW	Clear	Clear	None	None
24DSDO032	Flow	Slow		10	30	None	Clear	Clear	None	None
24DSDO150	Flow	Heavy		0	30	None	Clear	Clear	None	None
24GSDO035	Submerged	NA	100	0	100	None	Clear	Clear	None	Unknown
24LCSO060	Submerged	NA	100							
25ESDO037	Flow	Moderate		0	95	None	Grey	Cloudy	OilyShe	None
25LCSO057	Submerged	NA	40	5	40	None	Clear	Clear	None	Unknown
26FSDO038	Submerged	NA	100	0	100	None	Clear	Clear	None	Unknown
26JSDO052	Submerged	NA	100		100	None	Clear	Cloudy	None	Unknown
26KSDO050	Submerged	NA	100							
26KSDO052										
26KSDO099	Submerged	NA	100	0	100	SaltW	Clear	Clear	None	None
26KSDO254	Submerged	NA	100	0	100	None	Clear	Clear	None	None
26LSDO106										
26LSDO70										
27JSDO044										None
28IMH15										
28LCSO019	Flow	Moderate		4	5	None	Clear	Clear	None	None
28LSDO073	Submerged	NA	100	5	100	SaltW	Clear	Clear	None	None
28NSDO156	Flow	Heavy		1	25	SaltW	Clear	Clear	None	None
29JCSO017	Flow	Moderate		0	90	SaltW	Clear	Clear	None	Unknown
29JSDO029	Flow	Heavy		0	10	None	Clear	Clear	None	None
29JSDO129	Flow	Heavy		0	5	None	Clear	Clear	None	None
29NSDO015	Flow	Moderate		5	50	None	Clear	Clear	None	None
29PSDO005	Submerged	NA	100	5	100	None	Clear	Clear	None	Unknown
30JSDO19	Flow	Heavy		0	10	None	Clear	Clear	None	None
30PSDO107	Flow	Moderate		5	90	None	Clear	Cloudy	None	None
30PSDO62	Flow	Heavy								
31PSDO84	Flow	Heavy		0	20	SaltW	Clear	Clear	None	None

MANHOLE OBSERVATIONS

Facility ID	Manhole Facility ID	Is There Flow	If Flow Velocity	Sediment Depth percent	Depth Water plus Sed percent	Odor	Color	Turbidity	Floatables	Deposits Stains
01ESDO24										
01FSDO31	1FMH22	Flow	Moderate	10	50	None	Clear	Clear	None	None
02ESDO5	2EMH86	Flow	Slow			None	Clear	Clear	None	None
02FMH120	2FMH120	Flow	Heavy			None	Clear	Clear	None	None
02FSDO85	2FMH84	Flow	Moderate			None	Clear	Clear	None	None
02FSDO93	2FMH74	Submerge	NA			None	Clear	Clear	Garbage	Unknown
03ESDO185										
03ESDO186	3EMH89	Flow	Slow			None	Clear	Suspended	None	None
03ESDO207										
04ESDO64										
04ESDO69	4EMH67	Flow	Heavy			None	Clear	Clear	None	None
04FSDO1	4FCB136	Flow	Slow	1	2	None	Yellow	Clear	None	Sediments
04FSDO118										
04FSDO16										
04FSDO189	5FMH36	Flow	Moderate			None	Clear	Clear	None	None
04FSDO203	4FMH214	Flow	Slow			None	Clear	Clear	None	None
04FSDO204	4FMH219	Flow	Heavy			Musty	Grey	Clear	None	None
05ESDO180										
05ESDO181	5ECB6	Submerge	NA	0	50	None	Clear	Clear	None	None
05ESDO182	5EMH152	Flow	Moderate			None	Clear	Clear	None	None
05ESDO183	5DCB12	Dry	NA	10	10	None				None
05ESDO184										
05FSDO244	4FMH70	Submerge	NA			None	Clear	Clear	None	None
05FSDO245	5FMH211	Standing	NA			None	Clear	Clear	None	None
05FSDO254										
05GSDO112	5GMH159	Flow	Moderate			None	Clear	Clear	None	None
05GSDO115										
05GSDO116										
06CMH117	6CMH117	Flow	Heavy			None	Clear	Clear	None	None
06DSDO57	7DMH137	Flow	Slow	5	10	None	Clear	Clear	None	Sediments
06DSDO83										
06DSDO84	6DCB84	Submerge	NA	0	100	None	Clear	Clear	None	Unknown
06DSDO85										
06DSDO86	6DCB91	Flow	Moderate	0	10	None	Clear	Clear	None	None
06DSDO91	6DCB88	Submerge	NA	10	80	None	Clear	Clear	Other	Unknown
06FSDO233	6FCB1	Flow	Moderate	0	10	None	Clear	Clear	None	None
06HSDO106										
06HSDO107										
07HSDO346										
07HSDO347										
07HSDO348										
08BSDO126	8BMH37	Flow	Moderate			None	Clear	Clear	None	None
08CSDO25										
08CSDO26										
08ESDO33										
08ESDO35										
08FSDO1										
08ISDO153										
08ISDO154										
08ISDO155										
08ISDO156										
08ISDO158										
08ISDO207										
08ISDO209										
08JSDO102										
08JSDO41										
08KSDO49										
09BSDO49										
09ESDO229	9EMH177	Dry	NA			None				None
09ESDO243										
09KSDO16	8KMH41	Flow	Moderate			None	Yellow	Cloudy	None	None
11BMH49	11BMH49	Flow	Heavy			None	Clear	Clear	None	None
11BSDO123	11BMH43	Submerge	NA	0	50	None	Clear	Clear	None	Unknown
12BSDO10	12BCB9	Cannot O	NA	0	50	None				
12BSDO124										
12BSDO14	12BMH6	Submerge	NA	5	100	None	Clear	Clear	None	None
12BSDO33	12BMH32	Flow	Heavy	0	30	None	Grey	Clear	None	None
12FSDO305	12FMH70	Flow	Moderate	0	30	None	Yellow	Clear	None	None
12LMH304	12LMH304	Flow	Moderate			None	Clear	Clear		None
12LMH374	12LMH374	Flow	Moderate			None	Clear	Clear		None
13BSDO11										
13ESDO174										
13ESDO176	13EMH169	Flow	Slow	0	50	None	Clear	Clear	None	None
13FSDO95	13FMH40	Flow	Moderate			None	Brown	Cloudy	None	None
13FSDO96										
13FSDO97										
14CSDO9										
14EMH36	14EMH36	Flow	Slow			None	Clear	Clear	None	None
17FSDO12										
19GSDO199	19GCB17	Standing	NA	5	90	None	Clear	Opaque	None	None
19NCSO081	20NMH28	Flow	Moderate			None	Clear	Clear	None	None
20DMH062	20DMH62	Flow	Heavy			None	Clear	Clear		None
20GSDO163	20GMH107	Flow	Heavy			None	Clear	Clear	None	None
20GSDO164	20GCB125	Submerge	NA	0	100	None	Clear	Cloudy	None	Unknown
21EMH86	21EMH86	Flow	Moderate			None	Clear	Clear	None	None
21HSDO047	20HMH41	Flow	Moderate			None	Clear	Clear	None	None
21HSDO048	20HMH267	Flow	Moderate			None	Clear	Clear	None	None
21KSDO069	21KMH489	Standing	NA			None	Clear	Clear	None	None
23HMH81	23HCB89	Submerge	NA	5	100	None	Clear	Clear	Garbage	None
23HSDO040	23HMH67	Flow	Heavy			None	Clear	Clear	None	None
23LSDO074	23LMH90	Flow	Moderate			None	Clear	Clear	None	None
23LSDO15	Unmapped	Flow								
24DSDO032										
24DSDO150										
24GSDO035	23FMH183	Flow	Heavy			None	Clear	Clear	None	None
24LCSO060	24LMH250	Flow	Moderate			None	Clear	Clear	None	None
25ESDO037										
25LCSO057	25LMH180	Standing	NA			None	Clear	Cloudy	None	Unknown
26FSDO038	26FMH118	Flow	Heavy			None	Clear	Clear	None	None
26JSDO052	SDE00007N	Flow	Heavy			None	Clear	Clear		None
26KSDO050	26KMH319	Flow	Heavy			None	Clear	Clear	None	None
26KSDO052	26KMH533	Flow	Moderate			None	Brown	Cloudy		Unknown
26KSDO099	27KMH377	Flow	Heavy			None	Clear	Clear	None	None
26KSDO254	26KMH166	Flow	Heavy			None	Clear	Clear	None	None
26LSDO106	26LMH177	Flow	Moderate			None	Clear	Clear	None	None
26LSDO70	26LMH157	Flow	Moderate			None	Clear	Clear	None	None
27JSDO044	27JMH46	Submerge	NA			None	Clear	Clear	None	None
28IMH15	28JMH15	Submerge	NA			None	Clear	Clear	None	None
28LCSO019										
28LSDO073	28LMH78	Flow	Moderate			None	Clear	Clear	None	None
28NSDO156										
29JCSO017	29JMH222	Flow	Moderate			None	Clear	Clear	None	None
29JSDO029										
29JSDO129										
29NSDO015										
29PSDO005	29PCB63	Flow	Heavy	0	50	None	Clear	Clear		None
30JSDO19										
30PSDO107										
30PSDO62	30PMH60	Flow	Heavy			Oil	Clear	Cloudy		Unknown
31PSDO84										

OUTFALL CONDITION

Facility ID	Pipe Shape	Pipe Material	Needs Repair	Needs Cleaning	Pipe End Debris	Pipe End Broken Collapsed	Bar Screen Needs Cleared	Bar Screen Broken Missing Deter	Head Wall Corroded Pit Spall	Rip Rap Debris Deposition	Rip Rap Broken Missing	Tide Gate Broken Missing	Outfall Condition Comments
01ESDO24		Concrete	No	No	0 - No	0 - No	NA	NA	2 - Mod: generall	NA	NA	NA	
01FSDO31													
02ESDO5		Other	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
02FMH120													
02FSDO85		PVC	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
02FSDO93													
03ESDO185		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
03ESDO186													
03ESDO207		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
04ESDO64		Concrete	No	No	1 - Min: <1	0 - No	NA	NA	NA	0 - No	0 - No	NA	
04ESDO69													
04FSDO1													
04FSDO118		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
04FSDO16		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching s	NA	NA	NA	
04FSDO189		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
04FSDO203													
04FSDO204													
05ESDO180		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching s	NA	NA	NA	
05ESDO181													
05ESDO182		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
05ESDO183													
05ESDO184		VC	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
05FSDO244		Metal	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	Standing water
05FSDO245													
05FSDO254		PVC	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
05GSDO112													
05GSDO115		VC	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
05GSDO116		PVC	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
06CMH117													
06DSDO57													
06DSDO83		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
06DSDO84													
06DSDO85		Concrete	No	No	1 - Min: <1	0 - No	NA	NA	NA	NA	NA	NA	
06DSDO86		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching s	NA	NA	NA	Could not acce
06DSDO91													
06FSDO233		Concrete	Yes	No	1 - Min: <1	3 - Yes, Broke	NA	NA	NA	NA	NA	NA	End of pipe bro
06HSDO106		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
06HSDO107		Concrete	Yes	Yes	3 - Maj: 3-	0 - No	NA	NA	NA	NA	NA	NA	Looks like there
07HSDO346		Concrete	No	No	0 - No	0 - No	NA	NA	NA	0 - No	0 - No	NA	
07HSDO347		Concrete	No	Yes	3 - Maj: 3-	0 - No	NA	NA	NA	0 - No	0 - No	NA	Major trash or
07HSDO348		Concrete	No	Yes	3 - Maj: 3-	0 - No	NA	NA	NA	2 - Mod: 1-3	1 - Min: 1-2 b	NA	Rip rap loose, t
08BSDO126													
08CSDO25		Concrete	No	No	0 - No	0 - No	NA	0 - No	NA	NA	NA	NA	
08CSDO26		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
08ESDO33		PVC	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
08ESDO35		Concrete	No	No	1 - Min: <1	0 - No	NA	NA	NA	NA	NA	NA	
08FSDO1		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
08ISDO153		VC	No	No	0 - No	0 - No	NA	NA	1 - Min: etching s	0 - No	0 - No	NA	
08ISDO154		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching s	NA	NA	NA	
08ISDO155		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	0 - No	0 - No	NA	
08ISDO156		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
08ISDO158		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
08ISDO207		Concrete	No	No	0 - No	0 - No	NA	NA	NA	0 - No	0 - No	NA	
08ISDO209		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	0 - No	0 - No	NA	
08JSDO102		PVC	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
08JSDO41		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
08KSDO49		VC	No	No	0 - No	0 - No	NA	NA	1 - Min: etching s	0 - No	0 - No	NA	
09BSDO49		Concrete	No	Yes	2 - Mod: 1	0 - No	0 - No	0 - No	0 - No	NA	NA	NA	
09ESDO229													
09ESDO243		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
09KSDO16													
11BMH49													
11BSDO123													
12BSDO10		Metal	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
12BSDO124		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching s	NA	NA	NA	
12BSDO14		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
12BSDO33													
12FSDO305		PVC	No	No	0 - No	0 - No	NA	NA	NA	0 - No	0 - No	NA	
12LMH304													
12LMH374													
13BSDO11		Other	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	Outfall is subm
13ESDO174		Concrete	No	No	0 - No	0 - No	NA	NA	NA	0 - No	0 - No	NA	
13ESDO176													
13FSDO95		VC	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
13FSDO96		VC	No	No	0 - No	3 - Yes, Broke	NA	NA	NA	0 - No	NA	NA	
13FSDO97		VC	No	No	0 - No	3 - Yes, Broke	NA	NA	NA	0 - No	NA	NA	Covered in vege
14CSDO9		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
14EMH36													
17FSDO12		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
19GSDO199													
19NCSO081													
20DMH062													
20GSDO163													
20GSDO164													
21EMH86													
21HSDO047			No	0 - No	NA	NA	NA	NA	NA	NA	NA		Moved upstrea
21HSDO048													
21KSDO069		Concrete	No	No	NA	NA	NA	NA	0 - No	NA	NA	NA	Submerged
23HMH81													
23HSDO040													
23LSDO074		VC	No	No	0 - No	0 - No	0 - No	NA	NA	NA	NA	NA	Submerged
23LSDO15		Concrete	No	No	0 - No	0 - No	NA	NA	NA	0 - No	0 - No	NA	Submerged
24DSDO032		Concrete	No	No	1 - Min: <1	0 - No	NA	NA	2 - Mod: generall	NA	NA	NA	
24DSDO150		Concrete	No	No	1 - Min: <1	0 - No	NA	NA	NA	NA	NA	NA	
24GSDO035													
24LCSO060													
25ESDO037		Concrete	No	No	0 - No	0 - No	NA	NA	3 - Maj: advanced	NA	NA	NA	
25LCSO057		Concrete	No	No	0 - No	0 - No	0 - No	0 - No	0 - No	NA	NA	NA	
26FSDO038													
26JSDO052		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
26KSDO050													
26KSDO052													
26KSDO099													
26KSDO254													
26LSDO106													
26LSDO70													
27JSDO044													
28IMH15													
28LCSO019		Concrete	No	No	0 - No	0 - No	NA	NA	2 - Mod: generall	NA	NA	NA	
28LSDO073													
28NSDO156		Concrete	Yes	No	0 - No	3 - Yes, Broke	NA	NA	NA	NA	NA	NA	
29JCSO017		Concrete	No	No	0 - No	0 - No	NA	NA	NA	0 - No	0 - No	NA	Pipe file errone
29JSDO029		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
29JSDO129		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
29NSDO015		Concrete	No	No	0 - No	0 - No	NA	NA	0 - No	NA	NA	NA	
29PSDO005		VC	No	No	1 - Min: <1	0 - No	NA	NA	1 - Min: etching s	NA	NA	NA	
30JSDO19		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
30PSDO107		Concrete	No	No	0 - No	0 - No	NA	NA	NA	NA	NA	NA	
30PSDO62													
31PSDO84		Concrete	No	No	0 - No	0 - No	NA	NA	1 - Min: etching s	0 - No	0 - No	NA	

SAMPLING DATA

Facility ID	Samples Collected	If No Reason	Other Reason No Sample	Surfactants	Ammonia	Chlorine	pH	Conductivity	Temperature	Salinity	Outfall Comments	MH Comments	Bacteria Type	Bacteria Result	Bacteria Duplicate Sample Collect	Bacteria Duplicate Sample Result
01ESDO24	Yes			0	0.2	0.39	7.35	143	23.4	0			E.coli	110	No	
01FSDO31	Yes			0	2	0	6.6	81.6	14	0			E.coli	3,300	No	
02ESDO5	Yes			0	0.1	0.12	7.46	85.2	24.7	0			E.coli	140	No	
02FMH120	Yes			0	0.2	0	6.78	51	14.9	0			E.coli	370	No	
02FSDO85	Yes			0.5	0.3	0	7.07	95.3	22.5	0.01	Continued upstream.		E.coli	44,000	No	
02FSDO93	No	StandingWater														
03ESDO185	Yes			0.5	0.4	0	6.9	81.2	22.5	0.01			E.coli	19,000	No	
03ESDO186	Yes			0	0.25	0.82	7.14	244	10.5	0			E.coli	3,200	No	
03ESDO207	Yes			0.5	0.6	0	7.75	95.1	16.5	0			E.coli	5,000	No	
04ESDO64	Yes			0.5	0.4	0	7.02	65.7	21.3	0.01			E.coli	>80,000	No	
04ESDO69	Yes			0.25	0.3	0	6.81	81.5	22.4	0.01	Outfall mostly submerged continued upstrea		E.coli	10,000	No	
04FSDO1	Yes			0.75	0.6	0	6.82	454	20.9	0.2	Could not locate outfall, possibly submerged		E.coli	100	No	
04FSDO118	Yes			0.5	0	0	7.56	448	17.6	0.1			E.coli	3,500	No	
04FSDO16	Yes			0.5	0.2	0	7.07	213	17.5	0.1		Sampled drip	E.coli	3,500	No	
04FSDO189	Yes			0.5	0.3	0	7.16	197	20.3	0.1	Submerged by river continued upstream.		E.coli	22,000	No	
04FSDO203	Yes			0.25	0.1	0	7.37	55.8	24.4	0	The outfall is located in a construction zone -		E.coli	40,000	No	
04FSDO204	Yes			0	0.3	0	7.33	65.4	23.9	0		Sampled fro	E.coli	28,000	No	
05ESDO180	Yes			0	2	0	6.86	231	24.6	0.1	Two pipes with flow, sample taken from Nort		E.coli	>80,000	No	
05ESDO181	No	Other	Submerged at both outfall/upstream CB.													
05ESDO182	Yes			0.5	0.1	0	7.15	97.9	24.9	0			E.coli	22,000	No	
05ESDO183	No	NoFlow														
05ESDO184	Yes			0	0.2	0	6.52	229	24.1	0			E.coli	>80,000	No	
05FSDO244	No	Other	Submerged									Pipe submerged				
05FSDO245	No	StandingWater														
05FSDO254	Yes			0.25	0.1	0	6.41	0.3	24.9	0			E.coli	5,200	No	
05GSDO112	Yes			0	0.2	0	6.86	95.9	23.9	0		Sampled fro	E.coli	340	No	
05GSDO115	Yes			0.25	0.6	0	7.29	91.9	24.5	0			E.coli	49,000	No	
05GSDO116	Yes			0	0.3	0	7.19	66.6	23.8	0			E.coli	44,000	No	
06CMH117	Yes			0	0.1	0	6.59	442	14.6	0.2			E.coli	5,700	No	
06DSDO57	Yes			0	0.4	0	6.72	130.4	15.1	0	Could not locate outfall, went upstream.		E.coli	6,000	No	
06DSDO83	Yes			0	0.1	0	7.31	189.2	20.8	0.1			E.coli	9,000	No	
06DSDO84	No	Other	Outlet submerged								Could not locate.					
06DSDO85	Yes			0	0.3	0	6.79	59.2	20	0			E.coli	39,000	No	
06DSDO86	Yes			0	0.3	0	7.14	93.4	20.7	0	Could see outfall but could not access it.		E.coli	17,000	No	
06DSDO91	No	StandingWater														
06FSDO233	Yes			0	0.1	0	7.65	314	19.8	0.1	Pipe was broken. Top part is completly subm		E.coli	2,700	No	
06HSDO106	No	No Flow														
06HSDO107	No	No Flow														
07HSDO346	Yes			0.75	0.6	0.2	6.67	165.1	21.5	0			E.coli	32,000	No	
07HSDO347	Yes			1	0.2	0.07	6.79	451	22.3	0.2			E.coli	11,000	No	
07HSDO348	Yes			0.75	0.3	0.21	7.01	227	23.5	0.1			E.coli	13,000	Yes	11,000
08BSDO126	Yes			0	0.1	0	7.94	64.3	3.9	0			E.coli	6,900	Yes	7,500
08CSDO25	Yes			0.25	0	0.1	8.07	394	5.1	0.2			E.coli	320	No	
08CSDO26	Yes			0.25	0	0.1	7.82	669	4.9	0.3			E.coli	55	No	
08ESDO33	Yes			0.5	0.1	0.1	8.5	1596	3.1	0.8			E.coli	440	No	
08ESDO35	Yes			0.75	0.1	0.1	8.24	4190	4.4	2.1			E.coli	130	No	
08FSDO1	Yes			0.5	0	0.2	7.75	600	4.4	0.3			E.coli	40	No	
08ISDO153	Yes			0.5	0.1	0.1	7.96	727	4	0.3			E.coli	20	No	
08ISDO154	Yes			0.75	0.1	0	7.78	1680	5.8	0.8			E.coli	7,000	No	
08ISDO155	Yes			0.5	0.1	0.2	7.96	2120	3.4	1			E.coli	2,900	No	
08ISDO156	Yes			0.75	0.1	0.2	8.15	693	4.2	0.3			E.coli	820	No	
08ISDO158	Yes			2	0.1	0.3	7.75	5180	4.4	3			E.coli	2,500	No	
08ISDO207	Yes			0.5	0.1	0.3	8.05	465	4.3	0.2			E.coli	1,400	No	
08ISDO209	Yes			0.25	0	0.2	8.24	432	4.8	0.2			E.coli	520	No	
08JSDO102	Yes			0.25	0.3	0	7.3	78.8	23.8	0			Enterococci	33,000	No	
08JSDO41	Yes			3	0.4	0	7.16	-999	4.6	-999			E.coli	5,300	No	
08KSDO49	Yes			0.5	0.2	0	7.38	72.1	22.8	0			Enterococci	19,000	No	
09BSDO49	Yes			0.25	0.1	0	6.95	233	19.9	0			E.coli	240	No	
09ESDO229	No	NoFlow														
09ESDO243	Yes			0.25	0.1	0.25	7.92	1474	5	0.7			E.coli	360	No	
09KSDO16	Yes			0	0.1	0	7.64	70.4	11.1	0		Duplicate tak	Enterococci	43,000	Yes	10,000
11BMH49	Yes			0	0.4	0	7.2	261	8.6	0			E.coli	470	No	
11BSDO123	No	StandingWater														
12BSDO10	No	Standing Water									Could not access outfall, as it is	Could not open upstream catch basin				
12BSDO124	Yes			0.25	0.2	0	7	716	19.4	0.4			E.coli	4,000	No	
12BSDO14	No	Standing Water									Standing water upstream as we	Standing water. Could not open upstream MH 12BMH80				
12BSDO33	Yes			0	0.6	0	6.64	165.5	14.6	0			E.coli	3,200	No	
12FSDO305	Yes			0	2	0.1	7.1	102.9	22.5	0	Outfall was standing water. Sampled upstrea		E.coli	>80,000	No	
12LMH304	Yes			0.25	0.1	0.1	7.28	1021	5.1	0.5			Enterococci	6,700	No	
12LMH374	Yes			0	0	0.1	7.6	4830	6.2	0.2		Structure is a	Enterococci	3,300	Yes	5,900
13BSDO11	Yes			0.25	0.1	0	6.87	255	15.9	0	Pipe is submerged but there is strong flow.		E.coli	5,400	No	
13ESDO174	Yes			0.25	0.4	0	7.26	110.3	22.6	0			E.coli	5,800	No	
13ESDO176	Yes			0	4	0	7.22	482	5.3	0.3			E.coli	>80,000	No	
13FSDO95	Yes			0	0	0.1	7.27	152.6	23.3	0			E.coli	30,000	No	
13FSDO96	Yes			0.25	2	0	6.8	360	24.9	0.2			E.coli	>80,000	No	
13FSDO97	Yes			0.5	0	0	6.56	582	24.2	0.3			E.coli	10,000	No	
14CSDO9	Yes			0	0.1	0	7.46	234	9.9	0.1			E.coli	1,000	No	
14EMH36	Yes			0.5	0.1	0	7.56	107.1	21.4	0.01			E.coli	20,000	No	
17FSDO12	Yes			0	0.2	0	7.78	80.7	10.5	0			E.coli	910	No	
19GSDO199	No	StandingWater									Completely submerged					
19NCSO081	Yes			3	0	0	7.58	15500	19.9	9.1	Accessible but submerged	Sampled fro	Enterococci	320	No	
20DMH062	Yes			0.5	0.1	0	7.6	215	6.7	0.1			E.coli	1,400	No	
20GSDO163	Yes			0	0.1	0	8.02	70.9	3.8	0			E.coli	11,000	No	
20GSDO164	No	Other	Submerged													
21EMH86	Yes			0	0	0	7.38	119.6	12.8	0			E.coli	7,000	No	
21HSDO047	Yes			0	0	0	7.82	45.4	15.4	0			E.coli	2,600	No	
21HSDO048	Yes			0	0.3	0	6.81	36.3	11.3	0	Moved upstream		E.coli	1,400	No	
21KSDO069	No	StandingWater														
23HMH81	No	StandingWater										Standing water, submerged. Upstream MH is starter				
23HSDO040	Yes			0	0	0	8	75.3	3.4	0			E.coli	580	Yes	860
23LSDO074	Yes			0.25	0	0	8.42	83	3.5	0	Cannot access - submerged. Sampled upstrea		Enterococci	7,300	No	
23LSDO15	Yes			0.25	0.1	0	8.08	67.9	3	0	Sampled from unmapped manhole NW of 23		Enterococci	1,600	No	
24DSDO032	Yes			0.25	0.2	0.6	7.11	250	20.4	0			E.coli	15,000	Yes	21,000
24DSDO150	Yes			0.25	0.2	0	6.9	250	19.7	0			E.coli	6,700	No	
24GSDO035	Yes			0.25	0.1	0	8.01	81.8	3.2	0	Eventually sampled from 23FMH183. CNL 23		E.coli	3,500	No	
24LCSO060	Yes			1.5	0.6	0	6.81	14450	22.3	8.5			Enterococci	18,000	No	
25ESDO037	Yes			0.25	0.1	0	7.44	300	22.7	0.1			E.coli	35,000	No	
25LCSO057	No	Standing Water									Tide pushing in even though less than an hour after low tide.					
26FSDO038	Yes			0	0.1	0	7.84	69.4	4.8	0			E.coli	530	No	
26JSDO052	Yes			0.25	0	0	7.58	88.8	5.6	0		water swirlin	E.coli	<10	No	
26KSDO050	Yes			0.25	0.1	0	7.98	40.8	3.3	0			Enterococci	570	No	
26KSDO052	Yes			0.5	0.1	0	7.2	244	13.5	0.1	Could not locate outfall, continued upstream		Enterococci	4,300	No	
26KSDO099	Yes			0	0	0	8.33	165.4	14.5	0	Moved upstream		Enterococci	1,600	No	
26KSDO254	Yes			0.25	0	0	7.66	43.3	13.9	0	Went upstream		Enterococci	2,000	No	
26LSDO106	Yes			0	0.1	0	8.13	20.6	3.2	0	Cannot locate		Enterococci	11,000	No	
26LSDO70	Yes			0	0	0	7.92	68.3	3.6	0	Need an escort to be brought to the outfall. T		Enterococci	4,800	No	
27JSDO044	No	StandingWater									Moved upstream					
28IMH15	No	StandingWater														
28LCSO019	Yes			3	0	0.1	7.29	-999	21.2	-999			Enterococci	230	No	
28LSDO073	Yes			0	0	0.1	7.52	26.8	13.3	0	Moved upstream		Enterococci	500	No	
28NSDO156	Yes			0.25	0.1	0	7.47	273	8.4	0.1			Enterococci	910	No	
29JCSO017	Yes			0	0	0	7.23	47.9	12.5	0	This CSO was sampled on 11/22 at 11 AM. Th		Enterococci	30	Yes	10
29JSDO029	Yes			0	0.1	0.1	7.38	119.6	12.8	0			Enterococci	1,300	No	
29JSDO129	Yes			0.25	0	0.1	7.39	47.7	13.9	0			Enterococci	1,300	Yes	730
29NSDO015	Yes			2	0	0	7.47	18840	5.9	-999			Enterococci	160	No	
29PSDO005	Yes			0.25	0	0	8.26	337	7.2	0.2			Enterococci	2,100	No	
30JSDO19	Yes			0.25	0	0	7.68	83.7	12.3	0			Enterococci	19,000	No	
30PSDO107	Yes			0.25	0.1	0	7.44	0.5	9.9	0			Enterococci	1,200	No	
30PSDO62	Yes			0.25	0	0	8.9	505	8.9	0.2			Enterococci	460	No	
31PSDO84	Yes			0.25	0.1	0.1	7.37	372	7.7	0.2			Enterococci	4,300	No	