

Charles Outfall Screening

Locations	Broad Canal (D07)	Main Street (D04)	Wadsworth St (D05)	Wadsworth St (D05)	Ames St (D06)	Endicott St (D10)	Hingham St (D18)	Flagg St (D19)	Flagg St (D19)	Dewolf St (D21)	JFK East (D23)
Sampled dates	9.8.2020	9.8.2020	9.8.2020	6.8.2021	9.8.2020	6.24.2021	9.8.2020	9.8.2020	6.8.2021	9.8.2020	9.10.2020
MH ID	D070F000	D04DMH0010	D05DMH0105	D05DMH0105	D06DMH0015	D10DMH005	D18DMH0100	D19DMH1005	D19DMH1005	D21DMH0025	D23DMH0125
Investigation Note:						Checked DMH005 behind the wier- Standing water Followed upstream D10DMH0110- Standing Water, D10DMH0241 (Vassar St - Standing Water), D10DMH1120 (Vassar St- Standing Water), D10DMH1125 (Vassar St -Dry)			Checked D19DMH1005 and D19DMH1010	Checked D19DMH1005 and D19DMH1010	Checked D23DMH0120 and D23DMH0125
Lab Results											
E. Coli (CFU/100mL)	10	120	DRY	<10	50	DRY	<10	DRY	DRY	200	DRY
Specific Conductivity (umhos/cm)	2890	3720		1900	218		786			919	
Total Suspended Solids (mg/L)	<2	83		3	<2		<2			<2	
Total Phosphorous (mg/L)	0.13	0.194		0.121	0.079		<0.010			0.147	
BOD/5 days (mg/L)	<4.0	4.3		<3	<4.0		<4.0			<4.0	
Total Copper (mg/L)	0.008	0.027		0.016	0.018		<0.005			0.024	
Total Lead (mg/L)	<0.002	0.013		0.003	0.006		<0.002			0.003	
Field Insp. Results											
Odor	None	None	None	None	None	None	None	None	None	None	None
Color	Clear	Clear		Clear	Clear		Clear			Clear	
Turbidity	Cloudy with Sediments	Cloudy with Sediments		Cloudy with Sediments	Cloudy with Sediments		Cloudy with Sediments			Cloudy with Sediments	
Floatables	None	None		None	None		None			None	
Other observation	None	None	Clear	None	None	Clear	None	Clear	Clear	None	Clear
PH	8.36	8.32		8.05	8.1		8.54			7.81	
Temperature °C	22.2	21		23	23.5		25.9			23.2	
Conductivity	1411	1546		1271	1357		1006			1185	
TDS	1.06	388		1.5	256		714			836	
Salinity	2.1	2.9		1.1	0.2		0.5			0.6	
NH-3 (DR-890) (> 0.5 mg/L)	0.02	0.08		0.00	0.4		0.4			0.6	
Cl2 - Kit (≥ 0.02)	0.06	0.06		0.00	0.02		0.02			0.02	
Surfactant (≥ 0.25)	1.02	2.09		0.6	0.85		0.09			0.04	
Weather Conditions °C	24.2	24.2	24.2	21.9	24.2	22.6	24.2	24.2	21.9	24.2	24.0
Rain within 48 hours (inches)	0.00	0.00	0.00	0.00	0.00	0.00 *	0.00	0.00	0.00	0.00	0.37

* indicated within 24 hours

indicates excedence

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Locations	JFK East (D23)	JFK West (D25)	JFK West (D25)	Western Ave (D17A)	South Mass Ave (D08)	University Rd (D27)	Brewer St (D28)	Brewer St (D28)	Sparks St (D31)	Sparks St (D31)	Cemetery Range 237 (D50)
Sampled dates	5.24.2021	9.10.2020	5.24.2021	9.10.2020	5.24.2021	9.8.2020	9.8.2020	6.8.2021	9.8.2020	6.8.2021	9.10.2020
MH ID	D23DMH0125	D25DMH0120	D25DMH0120	D17DMH0230	Access270	D27DMH0113	D28DMH0110	D28DMH0110	D31DMH3710	D31DMH3710	D56DMH0040
Investigation Note:	Checked D23DMH0120 and D23DMH0125	Checked D25DMH0120 and D25DMH0125	Checked D25DMH0120 and D25DMH0125		Checked ACCESS 270 - Standing Water						
Lab Results											
E. Coli (CFU/100mL)	Standing Water	DRY	Standing Water	260	Standing Water	8000	DRY	DRY	Dry	3400	DRY
Specific Conductivity (umhos/cm)				624		2440				1710	
Total Suspended Solids (mg/L)				10		<2				<2	
Total Phosphorous (mg/L)				0.197		0.053				0.088	
BOD/5 days (mg/L)				<4.0		<4.0				<3	
Total Copper (mg/L)				0.024		0.015				0.016	
Total Lead (mg/L)				0.023		<0.002				0.003	
Field Insp. Results											
Odor	None	None	None	None	None	None	None	None	None	None	None
Color				Clear		Clear				Clear	
Turbidity				Cloudy with Sediments		Cloudy with Sediments				Cloudy with Sediments	
Floatables	None		None	None	None	None				None	
Other observation	Clear	Clear	Clear	None	Clear	None	Clear	Clear	Clear	None	Clear
PH				7.84		7.85				6.34	
Temperature °C				25.4		24.1				19.1	
Conductivity				789		1341				891	
TDS				567		234				120	
Salinity				0.4		1.8				0.3	
NH-3 (DR-890) (> 0.5 mg/L)				0.08		0.06				0.00	
Cl2 - Kit (≥ 0.02)				low		0.03				0.00	
Surfactant (≥ 0.25)				1.05		1.8				low	
Weather Conditions °C	16.4	24.0	16.4	24.0	16.4	24.2	24.2	21.9	24.2	21.9	24.0
Rain within 48 hours (inches)	0.00	0.37	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.37

* indicated within 24 hours

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Locations	Cemetery Range 237 (D50)	Cemetery Range 104 (D56)	Cemetery Range 104 (D56)	Shady Hill School (IC-1)	Amesbury St (D11)	Amesbury St (D11)	Kendal St. (D51)	Lechmere Canal (D02)	Lechmere Canal (D03D)	North Point (D03C)	Museum Way (D03B)
Sampled dates	5.24.2021	9.10.2020	5.24.2021	9.9.2020	9.9.2020	6.24.2021	9.9.2020	9.9.2020	5.24.2021	9.9.2020	9.9.2020
MH ID	D56DMH0040	D50DMH0905	D50DMH0905	D22LPH3860	D11DMH1920	D11DMH1790	D51DMH0020	D02DMH0020	New Outfall	D03DMH0011	D03DMH5000
Investigation Note:						Checked D11DMH1020 and D11DMH1025 and followed upstream up untill - D11DMH1920, D11DMH1950, D11DMH1790 - Standing Water			This location is not shown on GPS yet but is in front of 125 Monsignor O'Brien Highway - one MH that collects drainage flow from upstream building is tied to new main line on MOB Highway (Dry). Then the New Lechmere Canal (standing water)		
Lab Results											
E. Coli (CFU/100mL)	10	DRY	10	460	DRY	Standing Water	<10	20	Standing Water	<10	<10
Specific Conductivity (umhos/cm)	798		976	1110			3030	1160		1140	3710
Total Suspended Solids (mg/L)	10		475	<2			<2	19		6	13
Total Phosphorous (mg/L)	0.017		0.229	<0.010			0.094	0.156		0.127	0.088
BOD/5 days (mg/L)	<4.1		<4.1	<4.0			<4.0	<4.0		<4.0	5.3
Total Copper (mg/L)	<0.005		<0.005	<0.005			0.017	0.011		0.186	0.031
Total Lead (mg/L)	<0.002		0.008	<0.002			<0.002	0.004		<0.002	0.004
Field Insp. Results											
Odor	None	None	None	None	None	None	None	None	None	None	None
Color	Clear		Clear	Clear			Clear	cloudy		clear	clear
Turbidity	Coudy with Sediments		Coudy with Sediments	Cloudy with Sediments			Cloudy with Sediments	Cloudy with Sediments		cloudy with Sediments	cloudy with Sediments
Floatables	None		None	None		None	None	None	None	None	None
Other observation	None	Clear	None	None	Clear	Clear	None	None	Clear	None	MH half full water
PH	6.94		6.46	7.49			8	7.99		7.78	8.35
Temperature °C	16.9		16.7	16.8			24	23		21.7	20.9
Conductivity	929		831	1489			1435	1465		1625	1554
TDS	102		104	106			308	105		105	394
Salinity	0.3		0.4	0.7			2.3	0.7		0.8	3
NH-3 (DR-890) (> 0.5 mg/L)	0.60		0.00	0.04			0.06	0.08		0.01	0.02
Cl2 - Kit (≥ 0.02)	0.00		0.00	low			0.02	0.00		0.05	0.03
Surfactant (≥ 0.25)	0.25		0	0.8			0.4	1.07		low	0.46
Weather Conditions °C	16.4	24.0	16.4	22.9	22.9	22.6	22.9	22.9	16.4	22.9	22.9
Rain within 48 hours (inches)	0.00	0.37	0.00	0.00	0.00	0.00 *	0.00	0.00	0.00	0.00	0.00

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Charles Outfall Screening

Locations	Pleasant St (D16)	Pleasant St (D16)	Pearl St (D15)	Pearl St (D15)	Talbot St (D12)	Binney St (D53)	Binney St (D53)	River St (D55)	River St (D55)	Danforth St (D09)	Danforth St (D09)
Sampled dates	9.9.2020	6.24.2021	9.9.2020	6.24.2021	5.24.2021	9.10.2020	5.24.2021	9.10.2020	5.24.2021	5.26.2021	6.24.2021
MH ID	D16DMH1005	D16DMH1025	D15DMH1015	D15DMH1035	D12DMH0705	D01DMH4720	D01DMH4740	D55DMH0280	D55DMH0280	D09DMH1018	D09DMH1040
Investigation Note:		Checked D16DMH1000 and D16DMH1005 - Standing Water followed up stream up to Pleasant and Putnam St D16DMH1025 - SAMPLED	Checked D15DMH1015 - Dry	Checked D15DMH1015 (Standing Water) and D15DMH1070 (Standing Water) Followed up stream to Pearl and Glenwood D15DMH1035 - DRY	Standing Water behind the weir at ACCESS635 and followed up to D12DMH0605 - Standing Water, sampled at D12DMH0705	Checked D01DMH 4720, D01DMH4723 and D01DMH4726	Checked DMH4730 Half full , Followed upstream on Binney, DO1DMH4726 - Standing Water, D01DMH4730 Standing Water, D01DMH4740 Standing Water	Checked D55DMH0280 and followed up stream D55DMH0300 and D55LPH0001	Checked D55DMH0280 and followed up stream D55DMH0300 and D55LPH0001	Checked D09DMH0005 - Standing water - Followed upstream D09DMH1015 (Standing water), followed upstream D09DMH1018 (Standing Water)	Checked D09DMH1035 - Standing water - Followed upstream D09DMH1040 Standing water
Lab Results											
E. Coli (CFU/100mL)	DRY	<10	DRY	DRY	<10	Standing Water	Standing Water	DRY	DRY	Standing Water	Standing Water
Specific Conductivity (umhos/cm)		756			2540						
Total Suspended Solids (mg/L)		<2			340						
Total Phosphorous (mg/L)		0.013			0.543						
BOD/5 days (mg/L)		<13			4.7						
Total Copper (mg/L)		<0.005			0.052						
Total Lead (mg/L)		<0.002			0.080						
Field Insp. Results											
Odor	None	None	None	None	None	None	None	None	None	None	None
Color		Clear			Clear						
Turbidity		Coudy with sediments			cloudy with Sediments						
Floatables		None			None	None	None			None	None
Other observation	Clear	None	Clear	Clear	None	Clear	Clear	Clear	Clear	Clear	Clear
PH		6.24			6.89						
Temperature °C		21.2			20						
Conductivity		0.2			3050						
TDS		1890			110						
Salinity		220			1.6						
NH-3 (DR-890) (> 0.5 mg/L)		0.00			0.00						
Cl2 - Kit (≥ 0.02)		0.00			0.01						
Surfactant (≥ 0.25)		0.00			0.25						
Weather Conditions °C	22.9	22.6	22.9	22.6	16.4	24.0	16.4	24.0	16.4	23.5	22.6
Rain within 48 hours (inches)	0.00	0.00 *	0.00	0.00 *	0.00	0.37	0.00	0.37	0.00	0.00	0.00 *

* indicated within 24 hours

indicates excedence