

**City of Newton**  
**MS4 Annual Report**  
**July 1, 2020 – June 30, 2021**

**Attachment A**

Sanitary Sewer Overflow (SSOs)



**City of Newton  
MS4 Annual Report  
July 1, 2020 – June 30, 2021**

**Attachment B**

Structural Stormwater BMPs

*Not a complete list; more to be added.*

City of Newton  
Structural BMP Database TP Load Reduction Calcs

Location	Address	Owner	BMP Type	HSG	IR (in/hr)	Recharge Capacity (ft <sup>3</sup> )	IA (ac)	PA (ac)	BMP Volume (in)	Runoff Depth (in) (See Appendix F Attachment 3, Table 3-3, pg 20) (Enter 0 if no PA is involved)	BMP Volume Reduction Due to Pervious Area	Final BMP Volume (in)	Land Use Category	P Load Reduction (See Appendix F Attachment 3, BMP Performance Curves)	P Load Export Rate for IA (lbs/ac/yr)	P Load Export Rate for PA (lbs/ac/yr)	TP Reduction (lbs/yr)	Notes
Zervas School	30 Beethoven Ave.	City of Newton	Bio-filtration practice	C	0.27	2096	0.227	0.176	2.543658451	0.19	6%	2.396345675	Commercial	95%	1.78	0.21	0.42	Nitsch Engineering Stormwater Report, Last Revised July 29, 2015. For IA Disconnection
Zervas School	30 Beethoven Ave.	City of Newton	Bio-filtration practice	C	0.27	343	0.245	0.147	0.385674931	0.03	5%	0.367674931	Commercial	50%	1.78	0.21	0.23	
Zervas School	30 Beethoven Ave.	City of Newton	Porous Pavement				0.3		FALSE		FALSE	FALSE	Commercial	62%	1.78	0	0.33	
Angier School	1689 Beacon St.	City of Newton	Infiltration Trench	A	8.27	4989	0.681	0	2.018179391	0	0%	2.018179391	Commercial	100%	1.78	0.03	1.21	Schofield Brothers Stormwater Management Report. Mav 27. 2014.
Angier School	1689 Beacon St.	City of Newton	Infiltration Trench	A	8.27	10469	1.158	0	2.490519895	0	0%	2.490519895	Commercial	100%	1.78	0.03	2.06	
Cabot School	229 Cabot St.	City of Newton	Infiltration Trench	A	2.41	3211	0.338	0.161	2.61707989	0.25	5%	2.49799705	Commercial	100%	1.78	0.03	0.61	Schofield Brothers Stormwater Management Report March 6 2017 Manufacturer claims
Cabot School	229 Cabot St.	City of Newton	Porous Pavement				0.031		FALSE		FALSE	FALSE	Commercial	62%	1.78	0	0.034	
Cabot School	229 Cabot St.	City of Newton	Bio-filtration practice	A	2.41		0.089	0.025	FALSE		FALSE	FALSE	Commercial	59%	1.78	0.03	0.09	
Cabot School	229 Cabot St.	City of Newton	Bio-filtration practice	A	2.41		0.11	0.002	FALSE		FALSE	FALSE	Commercial	59%	1.78	0.03	0.12	
Cabot School	229 Cabot St.	City of Newton	Bio-filtration practice	A	2.41		0.06	0	FALSE		FALSE	FALSE	Commercial	59%	1.78	0.03	0.06	
F.A. Day School	21 Minot Place	City of Newton	Infiltration Trench	A	8.27	447	0.109	0	1.12972932	0	0%	1.12972932	Commercial	100%	1.78	0.03	0.19	Nitsch Engineering Stormwater Memorandum, April 20, 2012. Report mentions water quality structures
Newton North School	457 Walnut St.	City of Newton	Infiltration Trench	B	1.02	36750	5.518	3.42	1.834716735	0.11	4%	1.766539859	Commercial	98%	1.78	0.12	10.03	Nitsch Engineering HydroCAD Report, April 29, 2008. Infiltration rate of 1.02 assumed to be conservative as HSG B soils are cited in the report. 4 Stormceptor WQ units present. IA reduced by 2.331 ac in redevelopment.
Newton South High School	140 Brandeis Rd.	City of Newton	Infiltration Basin	C														Hamwey Engineering Drainage Calculations, last revised June 20, 2001. Both infiltration chambers were combined into one calculation. Very poor soils were cited in the report, and the lowest possible infiltration rate of 0.17 in/hr was used. Page 1 of drainage calc mentions WQ inlets.
					0.17	1026	1.5	0	0.188429752	0	0%	0.188429752	Commercial	48%	1.78	0.21	1.28	
Carr School	225 Nevada St	City of Newton	Infiltration Basin	A	8.27	211.95	0.08	0.02	0.689518687	0.03	1%	0.68158117	Commercial	72%	1.78	0.03	0.11	Construction Plan & Profile for the Bus Loop at Carr School, dated 6/13/19 and impervious and pervious area calcs provided by Engineering
Fire Dept. Headquarters, 1164 Centre St.	31 Willow St.	City of Newton	Infiltration Trench	C														Nitsch Engineering Schematic Civil Design Narrative and HydroCAD report, January 26, 2015. Both Infiltration Trenches were combined into one calculation. Urban Land soils were cited, HSG C soils and an infiltration rate of 0.27 in/hr were assumed to be conservative. BMP volume was taken as 0.061 ac-ft from page 12 of the HydroCAD Report. 3 WQs (unspecified brand) present.
					0.27	2657	0.897	0.236	0.816004373	0.09	3%	0.792325444	Commercial	86%	1.78	0.21	1.42	
Fire Station #10	755 Dedham St.	City of Newton	Infiltration Basin	A	2.41	432	0.101	0.3568	1.178299648	0.02	6%	1.107646183	Commercial	97%	1.78	0.03	0.18	Polaris Consultants Stormwater Memorandum, last revised November 6, 2013. First infiltration basin consists of two leaching catch basins.
			Infiltration Basin	A	2.41	3610	0.49	0	2.029572159	0	0%	2.029572159	Commercial	100%	1.78	0.03	0.87	
Franklin School	125 Derby St	City of Newton	Infiltration Trench	C	0.17	2430	0.11733242	0.03585859	5.70534142	0.69	4%	5.494466836	Commercial	100%	1.78	0.21	0.22	Woburn Canton Technical Memorandum, July 10th, 2019. HSG C soil with an infiltration rate of 0.17in/hr was cited in the report. PA was calculated from the difference of the catch basin drainage area and the IA in retrofit area

City of Newton  
Structural BMP Database TP Load Reduction Calcs

Location	Address	Owner	BMP Type	HSG	IR (in/hr)	Recharge Capacity (ft^3)	IA (ac)	PA (ac)	BMP Volume (in)	Runoff Depth (in) (See Appendix F Attachment 3, Table 3-3, pg 20) (Enter 0 if no PA is involved)	BMP Volume Reduction Due to Pervious Area	Final BMP Volume (in)	Land Use Category	P Load Reduction (See Appendix F Attachment 3, BMP Performance Curves)	P Load Export Rate for IA (lbs/ac/yr)	P Load Export Rate for PA (lbs/ac/yr)	TP Reduction (lbs/yr)	Notes
Crystal Lake Bath house	30 Rogers St (system on 20 Rogers)	City of Newton	Infiltration Trench	A	2.41	600	0.3673	0	0.450011588	0	0%	0.450011588	Medium Density Residential	82%	1.96	0.03	0.59	
Next to Elliot Street Bridge	391 Elliot St	City of Newton	Other - Stone-lined swale	B					FALSE		FALSE	FALSE	Commercial		1.78	0.12	0.00	Need to locate SW Report
Packard Cove Office Park	130 Rumford Ave	Capasso Realty	Infiltration Basin	C	2.41	2590	0.15	0	4.756657484	0	0%	4.756657484	Commercial	100%	1.78	0.21	0.27	Everett M. Brooks Company Drainage Calculations January 9th 2006 7 leaching
Packard Cove Office Park	130 Rumford Ave	Capasso Realty	Infiltration Basin	C	2.41	1459	0.09	0	4.46587083	0	0%	4.46587083	Commercial	100%	1.78	0.21	0.16	
Packard Cove Office Park	130 Rumford Ave	Capasso Realty	Infiltration Basin	C	2.41	1949	0.17	0	3.15832118	0	0%	3.15832118	Commercial	100%	1.78	0.21	0.30	
Packard Cove Office Park	130 Rumford Ave	Capasso Realty	Infiltration Basin	C	2.41	2376	0.19	0	3.444976077	0	0%	3.444976077	Commercial	100%	1.78	0.21	0.34	
Packard Cove Office Park	130 Rumford Ave	Capasso Realty	Infiltration Basin	C	2.41	1776	0.02	0	24.46280992	0	0%	24.46280992	Commercial	100%	1.78	0.21	0.04	
Packard Cove Office Park	130 Rumford Ave	Capasso Realty	Infiltration Basin	C	2.41	1459	0.09	0	4.46587083	0	0%	4.46587083	Commercial	100%	1.78	0.21	0.16	
Packard Cove Office Park	130 Rumford Ave	Capasso Realty	Infiltration Basin	C	2.41	1776	0.1	0	4.892561983	0	0%	4.892561983	Commercial	100%	1.78	0.21	0.18	
Packard Cove Office Park	130 Rumford Ave	Capasso Realty	Infiltration Basin	C	2.41	1776	0.1	0	4.892561983	0	0%	4.892561983	Commercial	100%	1.78	0.21	0.18	
Newton Nexus	131 - 181 Needham St	Wellford Corp	Infiltration Basin	B	1.02	7360	1.73	0.0386	1.171993185	0.05	0%	1.170877578	Commercial	96%	1.78	0.12	2.96	Kelly Engineering Stormwater Report, June 26th, 2015. 3 Contech proprietary water quality devices mentioned.
Waban Plaza	1625-1651 Beacon St & 2-10 Windsor Rd	Gregory Sullivan, DTS Trust	Infiltration Basin	C	0.27	9117	0.421	0.028	5.965725054	0.69	1%	5.919834318	Commercial	100%	1.78	0.21	0.76	VTP Associates Stormwater Report, March 11th, 2016
Hancock Estates	200 Estate Dr	Chestnut Hill Realty	Infiltration Trench	C	0.17	790	0.2	0	1.08815427	0	0%	1.08815427	Medium Density Residential	93%	1.96	0.21	0.36	Stantec Planning & Landscape Stormwater Report, January 8, 2016. Two Stormceptor WQs detailed in the report. Land converted from Ask W&C to check these #'s. The pervious area component.
			Infiltration Trench	C	0.17	2896	2.267	1.756	0.351917134	0.02	5%	0.336425295	Medium Density Residential	61%	1.96	0.21	2.94	
Rumford Ave Retail Property	143 Rumford Ave	SSG Rumford Newton, LLC	Infiltration Basin	D	1.02	13373	1.624	0.666	2.268486477	0.21	4%	2.182365787	Commercial	100%	1.78	0.37	3.14	BL Companies Stormwater Report, last revised June 15, 2017. Test results cite minimum of 1 in/hr infiltration rate.
300 Needham St Shopping Center	300 Needham St.	300 Needham St., LLC.	Infiltration Trench	A	8.27	2933	0.25	0.02	3.231955923	0.14	0%	3.220755923	Commercial	100%	1.78	0.03	0.45	Marchionda & Associates, L.P. Hydrologic
			Infiltration Trench	A	8.27	3488	0.57	0.09	1.685757092	0.08	1%	1.673125514	Commercial	100%	1.78	0.03	1.02	
			Infiltration Trench	A	8.27	1713	0.21	0.03	2.247146793	0.14	1%	2.227146793	Commercial	100%	1.78	0.03	0.37	
			Infiltration Trench	A	8.27	6388	0.79	0.07	2.227569132	0.14	1%	2.215164069	Commercial	100%	1.78	0.03	1.41	
Beth Menachem Chabad of Newton	349 Dedham St	Chabad Lubavitch, Inc	Infiltration Trench	A	2.41	1459	0.55		0.730778863	5.178	FALSE	0.730778863	Commercial	100%	1.78	0.03	0.98	Everett M. Brooks Company Drainage Calculations, 4/2/07 and site plan. Multiple leaching galley systems IR of 7.6 in/hr are cited in the calculations.
United Parish of Auburndale	64 Hancock St	United Parish of Auburndale	Infiltration Trench						FALSE		FALSE	FALSE		0	0	0.00		
Washington Place									FALSE		FALSE	FALSE		0	0	0.00		

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**Attachment C**

Stormwater outfall Screening and Sampling Data  
Wet & Dry weather

**City of Newton, Massachusetts - Dry Weather Outfall Screening Results**  
**July 1, 2020 - June 30, 2021**

Outfall ID	Pipe Material	Pipe Shape	Pipe Size (in)	Inspection Date	Inspecting Company	Weather	Quantity Rain 24 hr	Sampling Location	Manhole ID	Is There Flow	If Flow, Velocity	Samples Collected	If No, Reason	Surfactants (ppm)	Ammonia (ppm)	Chlorine (ppm)	E. Coli (MPN/100ml)
Lake Outfall 1	Concrete	--	12x18	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
Lake Outfall 2	Concrete	--	10	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
Lake Outfall 3	PVC	--	10	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
Lake Outfall 5	PVC	--	12	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
Lake Outfall 6	Vitrified Clay	--	8	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
Lake Outfall 7	Vitrified Clay	--	8	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
Lake Outfall 8	Concrete	--	15	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	DMH-0107	No	--	No	Dry	NT	NT	NT	NT
NEW-01	Concrete	--	60	9/9/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	--	No	Standing Water	NT	NT	NT	NT
NEW-01	Concrete/Corrugated Metal	--	60	4/9/2021	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-01-0005	Yes	Slow	Yes	--	0.5	ND (<0.05)	ND (<0.01)	10
NEW-02	Concrete	--	36	9/9/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-03	Culvert	--	48x72	9/9/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Slow	Yes	--	ND (<0.125)	0.40	0.06	1,500
NEW-04	Concrete	--	12	9/9/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-04A	Concrete	--	15	9/9/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-04B	Concrete	--	12	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-04C	Corrugated Metal	--	12	9/9/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-05	Concrete	--	15	9/9/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-06	Concrete	--	15	9/9/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-07	Concrete	--	24	9/9/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	Yes	Medium	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.01)	10
NEW-08	Concrete	--	12	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-09	PVC	--	10	9/9/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-10	Concrete	--	12	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-11	Culvert	--	60x72	9/29/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.25	ND (<0.05)	ND (<0.01)	330
NEW-12	PVC	--	10	9/9/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-13	Concrete	--	12	9/9/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-13A	Vitrified Clay	--	8	9/9/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	--	No	Outfall Buried	NT	NT	NT	NT
NEW-13B	Concrete	--	15	9/9/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-14	Concrete	--	12	9/10/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-15	Concrete	--	36	9/10/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-15B	Concrete	--	15	9/10/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-16	Concrete	--	12	9/10/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-16A	Vitrified Clay	--	12	9/10/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-17	Concrete	--	30	9/10/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	Yes	Medium	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.01)	ND (<10)
NEW-18	Concrete	--	12	9/10/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-18A	Vitrified Clay	--	12	9/10/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-19	Concrete	--	72	9/10/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.50	ND (<0.05)	ND (<0.01)	20
NEW-20	Concrete	--	2-24"	9/10/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	Yes	Medium	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.01)	20
NEW-21	Unknown	--	Unknown	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-21-CB-A	No	--	No	Could Not Locate	NT	NT	NT	NT
NEW-22	Concrete	--	12	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-23	PVC	--	24	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-24	Concrete	--	12	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-25	Vitrified Clay	--	30	9/17/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Slow	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.01)	730
NEW-27	PVC	--	12	9/10/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.50	ND (<0.05)	4.44	ND (<10)
NEW-27A	Concrete	--	12	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-27B	Concrete	--	12	9/2/2020	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-27B-0001	No	--	No	Dry	NT	NT	NT	NT
NEW-28	Concrete	--	10	10/9/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-29	Concrete	--	18	9/17/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-29-0001	Yes	Medium	Yes	--	ND (<0.125)	ND (<0.05)	1.61	ND (<10)
NEW-30	Vitrified Clay	--	10	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-31	Vitrified Clay	--	20	9/3/2020	SDE, Inc.	Raining	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-32	Concrete	--	24	9/17/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-32A	Concrete	--	36	9/17/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-32A-0001	No	--	No	Standing Water	NT	NT	NT	NT
NEW-33	Vitrified Clay	--	24	9/11/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-34	Vitrified Clay	--	12	9/3/2020	SDE, Inc.	Raining	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-36	Concrete	--	24	9/16/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-36-0001	No	--	No	Dry	NT	NT	NT	NT
NEW-38	Vitrified Clay	--	12	9/11/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-39	Concrete	--	10	9/11/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-40	Concrete	--	10	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-41	Concrete	--	15	9/11/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-42	Concrete	--	12	9/16/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-42-0001	No	--	No	Dry	NT	NT	NT	NT

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Outfall ID	Pipe Material	Pipe Shape	Pipe Size (in)	Inspection Date	Inspecting Company	Weather	Quantity Rain 24 hr	Sampling Location	Manhole ID	Is There Flow	If Flow, Velocity	Samples Collected	If No, Reason	Surfactants (ppm)	Ammonia (ppm)	Chlorine (ppm)	E. Coli (MPN/100ml)
NEW-43	Concrete	--	15	9/16/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-43-0004	No	--	No	Dry	NT	NT	NT	NT
NEW-44	Concrete	--	36	9/16/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-47	Concrete	--	60	9/29/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Fast	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.01)	ND (<10)
NEW-48	Concrete	--	36x48	9/29/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Medium	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.01)	30,000
NEW-49	Corrugated Metal	--	18	9/29/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Slow	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.01)	30
NEW-50	Concrete	--	12	9/16/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-51	Concrete	--	18	9/11/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-51A	Concrete	--	12	9/10/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-51B	Corrugated Metal	--	12	9/10/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-52	Vitrified Clay	--	20	9/16/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-52-0003	No	--	No	Dry	NT	NT	NT	NT
NEW-54	Concrete	--	12	9/16/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-54-CBA	No	--	No	Dry	NT	NT	NT	NT
NEW-55	Concrete	--	12	9/16/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-55-0002	No	--	No	Dry	NT	NT	NT	NT
NEW-56	Concrete	--	12	9/16/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-57	Concrete/Corrugated Metal	--	12	9/17/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-58	Concrete	--	36	9/17/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-58-0004	No	--	No	Dry	NT	NT	NT	NT
NEW-58A	Concrete	--	12	9/17/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-58A-0004	No	--	No	Standing Water	NT	NT	NT	NT
NEW-59	Corrugated Metal	--	12	9/16/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-59-0001	No	--	No	Standing Water	NT	NT	NT	NT
NEW-60	PVC	--	14	9/2/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-61	Concrete	--	12	9/2/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-62	Concrete	--	72	9/29/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Slow	Yes	--	0.5	10.0	0.63	ND (<10)
NEW-63	Concrete	--	12	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-64	Ductile Iron	--	12	9/16/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-65	Corrugated Metal	--	36	9/29/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Slow	Yes	--	0.5	10.0	0.33	140
NEW-65A	Ductile Iron	--	12	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-65B	Vitrified Clay	--	10	9/17/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-65B-0001	No	--	No	Dry	NT	NT	NT	NT
NEW-65C	Concrete	--	12	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-65C-0002	No	--	No	Dry	NT	NT	NT	NT
NEW-65D	Vitrified Clay	--	8	9/16/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-65D-0001	No	--	No	Dry	NT	NT	NT	NT
NEW-65E	Vitrified Clay	--	12	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-65E-0002	No	--	No	Dry	NT	NT	NT	NT
NEW-66	Culvert	--	60	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-67	Concrete	--	14	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-67-0002	No	--	No	Dry	NT	NT	NT	NT
NEW-68	Culvert	--	120	9/29/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Medium	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.01)	150
NEW-69	Concrete/Corrugated Metal	--	12	9/17/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Medium	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.01)	120
NEW-70	Concrete	--	12	9/2/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-71	PVC	--	10	9/2/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-72	Vitrified Clay	--	15	9/2/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-73	Corrugated Metal	--	24	9/2/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-74	Corrugated Metal	--	12	9/2/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Standing Water	NT	NT	NT	NT
NEW-74A	Concrete	--	12	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-74B	Concrete	--	15	9/2/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-75	Ductile Iron	--	12	9/2/2020	SDE, Inc.	Raining	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-75A	Concrete	--	18	9/10/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	None	No	Dry	NT	NT	NT	NT
NEW-76	Concrete	--	48x36	9/10/2020	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-76-0004	Yes	Medium	Yes	--	ND (<0.125)	0.1	1.41	ND (<10)
NEW-77	Culvert	--	72x144	9/10/2020	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-77	Yes	Medium	Yes	--	ND (<0.125)	0.1	ND (<0.01)	770
NEW-78	Concrete	--	20	9/17/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-78-0001	No	--	No	Dry	NT	NT	NT	NT
NEW-79	Concrete	--	12	9/17/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-79-0001	No	--	No	Dry	NT	NT	NT	NT
NEW-80	Vitrified Clay	--	12	9/2/2020	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-80-0001	No	--	No	Dry	NT	NT	NT	NT
NEW-81	Culvert	--	72	9/29/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	Yes	Fast	Yes	--	0.25	ND (<0.05)	0.04	80
NEW-86	Concrete/Corrugated Metal	--	12	9/2/2020	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-86A	Unknown	--	Unknown	9/2/2020	SDE, Inc.	Raining	<0.1 Inch	Outfall	--	No	--	No	Could Not Locate	NT	NT	NT	NT
NEW-87	Concrete/Corrugated Metal	--	48	9/29/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Slow	Yes	--	0.25	0.1	0.06	ND (<10)
NEW-88	Vitrified Clay	--	12	9/29/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-88-0001	No	--	No	Dry	NT	NT	NT	NT
NEW-89	Vitrified Clay	--	12	9/2/2020	SDE, Inc.	Raining	<0.1 Inch	Manhole	NEW-89-0002	No	--	No	Dry	NT	NT	NT	NT
NEW-90	Vitrified Clay	--	14	9/29/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-90-0001	No	--	No	Dry	NT	NT	NT	NT
NEW-91	Vitrified Clay	--	14	9/29/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-91-0002	Yes	Slow	Yes	--	0.25	0.1	1.19	11,000
NEW-92	Concrete	--	12	9/29/2020	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-93	Concrete	--	12	9/29/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-93-0055	Yes	Medium	Yes	--	ND (<0.125)	ND (<0.05)	0.02	140
NEW-94	Concrete	--	12	9/29/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-94-0001	No	--	No	Dry	NT	NT	NT	NT
NEW-95	Vitrified Clay	--	15	10/9/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-95-0005	No	--	No	Insufficient Flow	NT	NT	NT	NT
NEW-96	Vitrified Clay	--	48	10/9/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-96-0005	No	--	No	Dry	NT	NT	NT	NT



**City of Newton, Massachusetts - Dry Weather Outfall Screening Results  
July 1, 2020 - June 30, 2021**

Outfall ID	Pipe Material	Pipe Shape	Pipe Size (in)	Inspection Date	Inspecting Company	Weather	Quantity Rain 24 hr	Sampling Location	Manhole ID	Is There Flow	If Flow, Velocity	Samples Collected	If No, Reason	Surfactants (ppm)	Ammonia (ppm)	Chlorine (ppm)	E. Coli (MPN/100ml)
NEW-97	Vitrified Clay	--	12	9/29/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-97-0035	Yes	Medium	Yes	--	ND (<0.125)	ND (<0.05)	0.08	20
NEW-98	Vitrified Clay	--	12	9/29/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-98-0001	Yes	Fast	Yes	--	ND (<0.125)	ND (<0.05)	0.2	ND (<10)
NEW-98A	Vitrified Clay	--	12	9/3/2020	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-98A-CB-A	No	--	No	Dry	NT	NT	NT	NT
NEW-98B	Vitrified Clay	--	12	9/29/2020	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-98B-0001	No	--	No	Dry	NT	NT	NT	NT
NEW-98C	Vitrified Clay	--	12	9/29/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-98C-0004	No	--	No	Dry	NT	NT	NT	NT
NEW-98D	Vitrified Clay	--	12	9/29/2020	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-98D-CB-A	No	--	No	Dry	NT	NT	NT	NT
NEW-99	Unknown	--	24X26	9/29/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-99-0002	Yes	Medium	Yes	--	ND (<0.125)	0.1	ND (<0.01)	ND (<10)
NEW-100	Unknown	--	Unknown	9/29/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-100-0001	No	None	No	Standing Water	NT	NT	NT	NT
NEW-100A	Concrete	--	42	9/29/2020	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-100A-0001	No	--	No	Dry	NT	NT	NT	NT
NEW-100B	Concrete	--	12	9/29/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-100B-0001	Yes	Fast	Yes	--	ND (<0.125)	0.4	0.03	ND (<10)
NEW-101	Concrete	--	2-36"	9/29/2020	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-101-0131	Yes	Slow	Yes	--	ND (<0.125)	0.1	ND (<0.01)	230

Notes

1. ND = Non-Detect
2. NT = Not Tested

**City of Newton, Massachusetts - Wet Weather Outfall Screening Results**

**July 1, 2020 - June 30, 2021**

Outfall ID	Pipe Material	Pipe Shape	Pipe Size (in)	Inspection Date	Inspecting Company	Weather	Quantity Rain 24 hr	Sampling Location	Manhole ID	Is There Flow	If Flow, Velocity	Samples Collected	If No, Reason	Surfactants (ppm)	Ammonia (ppm)	Chlorine (ppm)	E. Coli (MPN/100ml)
Lake Outfall 1	Brick	--	24	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Slow	Yes	--	0.25	ND (<0.05)	0.33	1,700
Lake Outfall 1	Concrete	--	12x18	4/29/2021	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Slow	Yes	--	0.75	3.0	ND (<0.01)	7,000
Lake Outfall 2	Concrete	--	10	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Slow	Yes	--	ND (<0.125)	2	0.2	41,000
Lake Outfall 2	Concrete	--	10	4/29/2021	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.5	2.0	ND (<0.01)	800
Lake Outfall 3	Vitrified Clay	--	12	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Manhole	Unmapped	Yes	Slow	Yes	--	0.25	0.6	0.64	47,000
Lake Outfall 3	Vitrified Clay	--	12	4/29/2021	SDE, Inc.	Raining	>0.1 Inch	Manhole	Unmapped	Yes	Slow	Yes	--	0.25	2.0	0.43	560
Lake Outfall 5	PVC	--	15	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Fast	Yes	--	ND (<0.125)	ND (<0.05)	0.36	57,000
Lake Outfall 5	PVC	--	15	4/29/2021	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.50	2.0	0.49	1,800
Lake Outfall 6	Vitrified Clay	--	12	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Fast	Yes	--	0.25	ND (<0.05)	0.42	57,000
Lake Outfall 6	Vitrified Clay	--	12	4/29/2021	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Fast	Yes	--	0.25	0.8	0.11	30
Lake Outfall 7	Corrugated Metal	--	8	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Fast	Yes	--	0.5	ND (<0.05)	0.49	50,000
Lake Outfall 7	Vitrified Clay	--	8	4/29/2021	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.50	3.0	0.24	3,700
Lake Outfall 8	Concrete	--	15	9/30/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Slow	Yes	--	0.25	4	0.10	>80,000
Lake Outfall 8	Concrete	--	15	4/29/2021	SDE, Inc.	Cloudy	>0.1 Inch	Manhole	DMH-0107	Yes	Medium	Yes	--	0.25	3.0	ND (<0.01)	1,800
NEW-01	Concrete	--	60	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Slow	Yes	--	0.75	0.30	0.03	1,400
NEW-01	Concrete/Corrugated Metal	--	36	5/4/2021	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.25	0.2	0.23	210
NEW-02	Concrete	--	36	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	ND (<0.125)	0.20	0.22	55,000
NEW-03	Concrete	--	36	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.25	0.60	0.19	>80,000
NEW-04	Culvert	--	48x72	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Slow	Yes	--	0.25	0.20	ND (<0.01)	5,300
NEW-04A	Concrete	--	12	9/2/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Fast	Yes	--	0.5	0.8	0.28	>80,000
NEW-04B	Concrete	--	12	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.25	0.2	ND (<0.01)	5,200
NEW-04C	Concrete	--	12	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-05	Concrete	--	15	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Fast	Yes	--	1.0	0.6	0.15	5,800
NEW-06	Concrete	--	15	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Fast	Yes	--	0.75	0.6	0.25	6,200
NEW-07	Concrete	--	24	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	1.00	4.00	0.49	79,000
NEW-08	Concrete	--	12	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Slow	Yes	--	0.75	1.0	0.37	36,000
NEW-09	PVC	--	10	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Fast	Yes	--	0.40	0.40	0.17	1,200
NEW-10	Concrete/Corrugated Metal	--	15	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.5	0.6	0.52	3,200
NEW-12	PVC	--	10	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Slow	Yes	--	0.5	10	0.27	12,000
NEW-13	Concrete/Corrugated Metal	--	15	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.50	0.6	0.28	37,000
NEW-13A	Vitrified Clay	--	8	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	No	--	No	Abandoned	NT	NT	NT	NT
NEW-13B	Concrete	--	15	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Manhole	NEW-13B-0003	Yes	Slow	Yes	--	0.25	0.4	0.17	640
NEW-15	Concrete	--	36	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.5	0.8	0.28	23,000
NEW-15B	Concrete/Corrugated Metal	--	12	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Slow	Yes	--	0.50	0.6	0.42	4,700
NEW-16	Concrete	--	12	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.75	0.6	0.79	22,000
NEW-16A	Vitrified Clay	--	10	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	No	--	No	Dry	NT	NT	NT	NT
NEW-17	Concrete/Corrugated Metal	--	24	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Fast	Yes	--	ND (<0.125)	0.6	0.41	ND (<10)
NEW-18	Concrete/Corrugated Metal	--	12	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.75	0.6	0.75	17,000
NEW-18A	Concrete	--	18	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Slow	Yes	--	0.5	0.8	0.55	>80,000
NEW-19	Concrete	--	72	5/5/2021	SDE, Inc.	Cloudy	>0.1 Inch	Outfall	--	Yes	Fast	Yes	--	0.25	0.1	ND (<0.01)	2,700
NEW-20	Concrete	--	12	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.01)	1,500
NEW-21	Vitrified Clay	--	8	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Manhole	NEW-21-CBA	Yes	Slow	Yes	--	ND (<0.125)	0.1	ND (<0.01)	49,000
NEW-22	Concrete	--	12	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Manhole	NEW-22-0003	Yes	Medium	Yes	--	0.25	ND (<0.05)	0.65	73,000
NEW-23	HDPE	--	24	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.75	3	0.42	47,000
NEW-24	Concrete	--	12	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	2	ND (<0.05)	1.95	>80,000
NEW-25	Vitrified Clay	--	30	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.25	3.0	0.25	>80,000
NEW-27	PVC	--	12	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	ND (<0.125)	0.4	0.1	14,000
NEW-27A	Concrete	--	12	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Slow	Yes	--	1.0	5.0	0.4	>80,000
NEW-27B	Concrete	--	12	5/5/2021	SDE, Inc.	Cloudy	>0.1 Inch	Outfall	--	Yes	Slow	Yes	--	0.5	0.1	ND (<0.01)	120
NEW-28	Vitrified Clay	--	12	10/29/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.25	0.1	0.14	21,000
NEW-29	Concrete	--	18	10/29/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	1.5	0.1	0.69	38,000
NEW-30	Vitrified Clay	--	10	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Manhole	NEW-30-0002	Yes	Unknown	Yes	--	0.25	3	0.18	>80,000
NEW-31	Vitrified Clay	--	20	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Manhole	NEW-31-0004	Yes	Fast	Yes	--	1	6	0.36	>80,000
NEW-32	Concrete	--	24	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.25	2	0.04	>80,000
NEW-32A	Concrete	--	36	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Slow	Yes	--	0.25	2	0.63	78,000
NEW-33	Vitrified Clay	--	24	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Fast	Yes	--	0.25	0.8	0.32	60,000
NEW-34	Vitrified Clay	--	12	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	No	--	No	Collapsed	NT	NT	NT	NT
NEW-36	Concrete	--	24	10/29/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Slow	Yes	--	ND (<0.125)	0.4	0.16	6,000
NEW-38	Concrete	--	12	10/29/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Fast	Yes	--	ND (<0.125)	0.8	0.42	5,300
NEW-39	Concrete	--	10	10/28/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.25	1	0.2	9,000

**City of Newton, Massachusetts - Wet Weather Outfall Screening Results**  
**July 1, 2020 - June 30, 2021**

Outfall ID	Pipe Material	Pipe Shape	Pipe Size (in)	Inspection Date	Inspecting Company	Weather	Quantity Rain 24 hr	Sampling Location	Manhole ID	Is There Flow	If Flow, Velocity	Samples Collected	If No, Reason	Surfactants (ppm)	Ammonia (ppm)	Chlorine (ppm)	E. Coli (MPN/100ml)
NEW-40	PVC	--	10	10/29/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Fast	Yes	--	0.25	2	0.59	21,000
NEW-41	Concrete	--	15	10/29/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Fast	Yes	--	ND (<0.125)	2	0.18	40,000
NEW-43	Corrugated Metal	--	24	10/30/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Slow	Yes	--	ND (<0.125)	0.1	0.23	5,500
NEW-44	Corrugated Metal	--	36	10/30/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.25	1	0.24	20,000
NEW-47	Concrete/Corrugated Metal	--	60	10/30/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Fast	Yes	--	0.25	0.3	0.07	600
NEW-48	Concrete/Corrugated Metal	--	36x48	10/30/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	ND (<0.125)	ND (<0.05)	0.03	1,700
NEW-49	Concrete/Corrugated Metal	--	18	10/30/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Slow	Yes	--	0.25	0.2	0.17	1,300
NEW-50	Concrete/Corrugated Metal	--	12	10/30/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Slow	Yes	--	0.50	0.8	0.34	3,000
NEW-51	Concrete/Corrugated Metal	--	12	10/30/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Slow	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.01)	7,500
NEW-51A	Concrete/Corrugated Metal	--	12	10/30/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	2	0.4	1.0	>80,000
NEW-51B	Concrete/Corrugated Metal	--	12	10/30/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	2.0	3	1.0	29,000
NEW-55	Concrete	--	12	10/30/2020	SDE, Inc.	Raining	>0.1 Inch	Manhole	NEW-55-0001	Yes	Slow	Yes	--	0.50	0.4	0.31	7,000
NEW-58	Concrete	--	36	5/5/2021	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Slow	Yes	--	0.25	0.3	ND (<0.01)	1,700
NEW-58A	Concrete	--	36	5/5/2021	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Slow	Yes	--	0.25	0.2	0.09	1,600
NEW-59	Corrugated Metal	--	12	5/5/2021	SDE, Inc.	Raining	>0.1 Inch	Manhole	NEW-59-0001	Yes	Medium	Yes	--	0.25	2.0	ND (<0.01)	3,500
NEW-60	PVC	--	14	10/29/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	ND (<0.125)	ND (<0.05)	0.30	58,000
NEW-61	Concrete	--	12	9/2/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Fast	Yes	--	0.75	0.6	0.14	25,000
NEW-62	Concrete	--	72	5/5/2021	SDE, Inc.	Raining	>0.1 Inch	Manhole	NEW-62-0003	Yes	Fast	Yes	--	ND (<0.125)	0.2	1.27	20
NEW-64	Ductile Iron	--	15	5/5/2021	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Fast	Yes	--	0.25	0.6	0.01	210
NEW-69	Concrete	--	12	10/29/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.25	0.6	ND (<0.01)	4,500
NEW-70	Concrete	--	12	10/29/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Fast	Yes	--	0.25	3.0	0.89	>80,000
NEW-73	Corrugated Metal	--	15	5/10/2021	SDE, Inc.	Cloudy	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	ND (<0.125)	ND (<0.05)	0.05	5,300
NEW-76	Culvert	--	48x36	10/29/2020	SDE, Inc.	Raining	>0.1 Inch	Manhole	NEW-76-0004	Yes	Fast	Yes	--	ND (<0.125)	0.2	0.38	10
NEW-77	Culvert	--	72x144	10/29/2020	SDE, Inc.	Raining	>0.1 Inch	Manhole	NEW-77-0001	Yes	Fast	Yes	--	0.25	1.0	0.79	>80,000
NEW-78	Concrete	--	20	5/10/2021	SDE, Inc.	Cloudy	>0.1 Inch	Manhole	MH-78-0001	Yes	Slow	Yes	--	ND (<0.125)	2.0	0.24	5,900
NEW-86A	Unknown	--	Unknown	9/2/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	No	--	No	Could Not Locate	NT	NT	NT	NT
NEW-89	Vitrified Clay	--	12	9/2/2020	SDE, Inc.	Raining	>0.1 Inch	Manhole	NEW-89-0002	Yes	Medium	Yes	--	ND (<0.125)	4.0	0.38	24,000
NEW-90	Vitrified Clay	--	10	9/2/2020	SDE, Inc.	Raining	>0.1 Inch	Manhole	NEW-90-0001	Yes	Fast	Yes	--	ND (<0.125)	0.3	0.92	8,000
NEW-92	Concrete	--	12	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Outfall	--	Yes	Medium	Yes	--	0.25	ND (<0.05)	0.22	>80,000
NEW-93	Vitrified Clay	--	12	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Manhole	NEW-93-0055	Yes	Medium	Yes	--	0.25	0.2	0.19	12,000
NEW-97-0003	Concrete	--	12	5/10/2021	SDE, Inc.	Cloudy	>0.1 Inch	Manhole	NEW-97-0003	Yes	Medium	Yes	--	ND (<0.125)	ND (<0.05)	0.04	160
NEW-97-0035	Vitrified Clay	--	12	5/10/2021	SDE, Inc.	Cloudy	>0.1 Inch	Manhole	NEW-97-0035	Yes	Fast	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.01)	240
NEW-98	Vitrified Clay	--	12	5/10/2021	SDE, Inc.	Cloudy	>0.1 Inch	Manhole	NEW-98-0001	Yes	Medium	Yes	--	ND (<0.125)	0.1	0.16	ND (<10)
NEW-98B	Vitrified Clay	--	12	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Manhole	NEW-98B-0001	Yes	Fast	Yes	--	ND (<0.125)	0.1	1.36	ND (<10)
NEW-98C	Vitrified Clay	--	12	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Manhole	NEW-98C-0004	Yes	Fast	Yes	--	0.25	0.8	ND (<0.01)	ND (<10)
NEW-99	Concrete	--	24x36	10/13/2020	SDE, Inc.	Raining	>0.1 Inch	Manhole	NEW-99-0002	Yes	Medium	Yes	--	ND (<0.125)	0.6	0.95	1,800
NEW-100A	Concrete	--	42	5/10/2021	SDE, Inc.	Cloudy	>0.1 Inch	Manhole	NEW-100A-0001	Yes	Fast	Yes	--	ND (<0.125)	0.1	0.04	45
NEW-100B	Concrete	--	12	5/10/2021	SDE, Inc.	Cloudy	>0.1 Inch	Manhole	NEW-100B-0001	Yes	Medium	Yes	--	ND (<0.125)	0.1	0.04	100

Notes

1. ND = Non-Detect
2. NT = Not Tested

**City of Newton  
MS4 Annual Report  
July 1, 2020 – June 30, 2021**

**Attachment D**

Illicit Discharge Detection and Removal Report

- Current reporting period - one
- Master summary



