

Tewksbury, MA - Catchment Investigation Sampling Results

Structure ID	Sampled At	Flow From	Location	Catchment	Inspection Date and Time	Field Testing Results						Lab Results
						Temp. (°F)	Salinity (PPM)	Conductivity (µs/cm)	Ammonia (mg/L)	Surfactants (mg/L)	Chlorine (mg/L)	E. Coli (MPN/100 mL)
DL-6189	MH-2083	MH-2185	Merrimac Drive	OF-4113	08/03/2021 8:13AM	64.1	285	510	0.1	0.25	0.03	84
DL-6193	MH-2085	MH-2086	Merrimac Drive	OF-4113	08/03/2021 9:00AM	64.4	270	488	0	0.25	0.04	120
DL-6197	MH-2087	MH-2088	Merrimac Drive	OF-4113	08/03/2021 9:35AM	64.9	279	502	0	0.25	0.05	75
DL-6347	MH-2088	Inlet/Unknown	Merrimac Drive	OF-4113	08/03/2021 10:02AM	64.8	288	508	0.1	0.25	0.23	82
DL-6348	MH-2088	Inlet/Unknown	Merrimac Drive	OF-4113	08/03/2021 10:18AM	64.9	278	498	0.1	0.25	0.07	127
DL-6210	CB-4168	Inlet/Unknown	47 Manor Hill Drive	OF-4114	08/04/2021 7:16AM	62.5	619	1093	0.1	0.5	0.11	37
DL-6212	MH-2098	MH-2099	35 Manor Hill Drive	OF-3014	08/04/2021 7:52AM	66.5	424	768	0.1	0.375	0.13	23
DL-6888	MH-2098	CB-4170	35 Manor Hill Drive	OF-3014	08/04/2021 8:18AM	67.8	487	857	0.2	0.25	0.04	6
DL-6213	MH-2099	Inlet/Unknown	35 Manor Hill Drive	OF-3014	08/04/2021 8:36AM	67.7	489	893	0.6	0.25	0.11	36
DL-460	MH-112	Inlet/Unknown	Mount Joy Drive Extension	OF-4113	08/04/2021 11:54AM	67.7	324	578	0.1	0.25	0.03	194
DL-6349	MH-2088	Inlet/Unknown	Merrimac Drive	OF-4113	08/03/2021 11:41AM	65.2	270	497	0.1	0.375	0.07	114
DL-6200	MH-2088	MH-2089	Merrimac Drive	OF-4113	08/03/2021 11:50AM	66.9	278	491	0.1	0.25	0.07	105
DL-6198	MH-2089	CB-4158	Merrimac Drive	OF-4113	08/03/2021 12:12PM	67.8	107	491	0.1	0.25	0.03	28
DL-6200B	MH-2089	MH-2090	Merrimac Drive	OF-4113	08/03/2021 12:34PM	68	252	453	0.1	0.375	0.07	117
DL-6203	MH-2091	MH-2092	Merrimac Drive	OF-4113	08/03/2021 13:09PM	68.7	271	488	0.1	0.25	0.03	167
DL-6205	MH-2093	MH-2094	Merrimac Drive	OF-4113	08/03/2021 13:49PM	67.6	278	483	0.1	0.25	0.3	119
DL-6209	MH-2095	Inlet/Unknown	Merrimac Drive	OF-4113	08/03/2021 14:22PM	68.8	168	320	0.1	0.25	0.02	10
DL-6208	MH-2095	MH-2532	Merrimac Drive	OF-4113	08/03/2021 14:39PM	67.2	234	427	0.1	0.25	0.06	108
DL-6887	MH-2099	MH-2100	Manor Hill Drive	OF-3014	08/11/2021 7:59AM	73.8	355	629	0.1	0.25	0.05	<1
DL-757	CB-394	CB-611	Mount Joy Drive Extension	OF-4101	08/11/2021 9:16AM	75.6	104	187	0	0.125	0	59
DL-7295	CB-611	Unknown	Mount Joy Drive Extension	OF-4101	08/11/2021 9:45AM	75.0	102	185	0.1	0.125	0	1
DL-7296	CB-611	MH-160	Mount Joy Drive Extension	OF-4101	08/11/2021 9:58AM	74.7	85	176	0	0.125	0.02	49
DL-6583	Unnamed CB	MH-2105	Joseph Drive	OF-4088	08/11/2021 11:53AM	85.9	183	336	0	0.125	0.06	5
DL-480	CB-423	Inlet	Mount Joy Drive Extension	OF-4101	08/11/2021 12:23PM	77.2	95	168	0.2	0.125	0.02	178
DL-6549	CB-423	CB-609	Mount Joy Drive Extension	OF-4101	08/11/2021 12:37PM	77.9	264	480	0.1	0.25	0	26
DL-103	CB-128	Unknown	Overlook Drive	OF-4574	08/11/2021 13:17PM	78.0	87.2	153	0.2	0.125	0.14	>2420
DL-111	CB-161	CB-159	Dike Court	OF-4503	08/11/2021 13:58PM	81.9	176	306	0.1	0.25	0.07	866
DL-112	CB-158	Inlet	Dike Court	OF-4503	08/11/2021 14:15PM	81.0	154	272	0.1	0.25	0.1	140
DL-249	CB-157	Inlet	Cardigan Road	OF-1	08/12/2021 10:00AM	84.4	311	574	0.8	0.125	0.09	69
DL-107	CB-155	CB-157	Cardigan Road	OF-1	08/12/2021 13:57AM	80.7	288	515	0.8	0.25	0.06	84
DL-256	CB-155	CB-153	Cardigan Road	OF-1	08/13/2021 7:40AM	70.9	136	268	0.3	0.25	0	99
DL-253	CB-153	CB-207	Cardigan Road	OF-1	08/13/2021 7:56AM	71.0	130	234	0.2	0.25	0	59
DL-106	CB-153	CB-151	Cardigan Road	OF-1	08/13/2021 8:18AM	71.2	130	426	0	0.25	0.14	5
DL-259	CB-143	CB-147	Cardigan Road	OF-2	08/13/2021 10:15AM	73.2	247	463	0.1	2.0	0.01	488

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DL-006	MH-46	CB-4	Cardigan Road	OF-2	08/16/2021 10:11AM	73.2	193	342	0.1	0.25	0.07	550
DL-247	MH-46	Inlet/Unknown	Cardigan Road	OF-2	08/16/2021 10:26AM	71.1	250	463	0.8	0.25	0.07	1414
DL-015	MH-1	CB-13	Cardigan Road	OF-2	08/16/2021 10:48AM	73.7	126	225	0.1	0.125	0.02	35
DL-018	MH-3	CB-15	Cardigan Road	OF-2	08/16/2021 12:07AM	75.9	123	221	0.2	0.125	0.04	70
DL-1534	CB-802	CB-801	Navillus Road	OF-4127	08/16/2021 12:44AM	76.8	219	389	0	0.125	0.02	1
DL-976	Unnamed MH	MH-213	Farwood Road	OF-98	08/17/2021 7:34AM	65.4	326	608	3	0.25	0.04	76
DL-977	Inlet	Wetlands	Farwood Road	OF-98	08/17/2021 8:18AM	67.8	323	574	10	0.25	0.05	88
DL-1716	MH-206	CB-1245	Fox Run Drive	OF-3084	08/17/2021 9:02AM	72.8	118	219	1	0.25	0.09	2
DL-6651	MH-206	Inlet/Unknown	Fox Run Drive	OF-3084	08/17/2021 9:17AM	75.4	121	217	2	0.25	0.5	2
DL-1719	MH-407	CB-1247	Fox Run Drive	OF-3084	08/17/2021 9:44AM	74.4	123	230	2	0.125	0.07	36
DL-1433	CB-1010	CB-1142	Devonshire Road	OF-132	08/17/2021 10:26AM	74.1	257	472	0	0.25	0.05	13
DL-1553	CB-1144	CB-1117	Devonshire Road	OF-132	08/17/2021 11:39AM	78.2	310	565	0.1	0.25	0.02	8
DL-1419	CB-1144	CB-1145	Devonshire Road	OF-132	08/17/2021 11:58AM	72.4	256	476	0.3	0.25	0.02	7
DL-1341	CB-1106	CB-1112	Charles Drive	OF-132	08/17/2021 12:30PM	73.6	261	467	0.3	0.25	0.01	9
DL-1428	CB-1109	CB-1107	Charles Drive	OF-132	08/17/2021 13:07PM	76.3	160	299	0.1	0.25	0.05	20
DL-1345	CB-1111	CB-1037	Charles Drive	OF-132	08/17/2021 13:27PM	77.0	96	169	0	0.25	0.05	3
DL-1400	MH-322	CB-1004	Heidenrich Drive	OF-134	8/25/2021 8:49AM	72.9	82	172.2	0	0.25	0.14	147
DL-1397	MH-322	CB-1025	Heidenrich Drive	OF-134	8/25/2021 9:25AM	72.7	178	333	0.2	0.5	0.04	15
DL-1398	MH-322	CB-1026	Heidenrich Drive	OF-134	8/25/2021 9:51AM	77.9	265	451	0.1	0.25	0.13	4
DL-1105	MH-273	MH-272	Debra Drive	OF-4388	8/25/2021 10:42AM	80.1	798	1377	0	0.25	0.05	649
DL-1104	MH-272	MH-277	Debra Drive	OF-4388	8/25/2021 12:17PM	77.6	816	1424	0.1	0.25	0.18	1046
DL-7297	MH-2520	CB-2577	Colonial Drive	OF-4361	8/25/2021 13:17PM	78.6	245	423	0	0.25	0	46
DL-7298	MH-2520	Inlet/Unknown	Colonial Drive	OF-4361	8/25/2021 13:34PM	76.9	303	546	0.1	0.25	0.03	201
CL-92	CB-914	MH-274	Debra Drive	OF-4389	8/26/2021 8:28AM	69.8	214	384	0.2	0.25	0	8
DL-2287	CB-2195	CB-2194	Oxford Road	OF-4306	8/26/2021 10:32AM	76.5	220	415	0.1	0.25	0	2
DL-2293	CB-2196	CB-2197	Oxford Road	OF-4306	8/27/2021 9:37AM	75.0	150	253	0.3	0.25	0.2	16
DL-6263	MH-2055	CB-4100	Dunvegan Road	OF-4548	8/27/2021 10:08AM	75.6	84	163	0	0	0	4
DL-6266	MH-2057	MH-2506	Dunvegan Road	OF-4548	8/27/2021 10:21AM	75.6	86	164	0.1	0.125	0	17
DL-6081	MH-2028	MH-4060	Mitchell G Drive	OF-4291	8/27/2021 11:53AM	81.5	204	381	0.3	0.25	0.03	172
DL-6080	MH-2029	MH-2028	Mitchell G Drive	OF-4291	8/27/2021 12:08PM	77.1	162	291	0.2	0.125	0.04	22
DL-6083	MH-2029	MH-2030	Mitchell G Drive	OF-4291	8/27/2021 12:16PM	76.7	161	302	0.1	0.25	0	<1
DL-6084	MH-2030	MH-2031	Sciarappa Way	OF-4291	8/27/2021 12:27PM	79.1	150	260	0.2	0.25	0.02	2

*The 2016 MS4 Permit identifies likely sewer input indicators as follows:

Ammonia ≥ 0.5 mg/L, surfactants ≥ 0.25 mg/L, and bacteria levels greater than the water quality criteria applicable to the receiving water. E.Coli = 235 CFU/100 mL.

Ammonia ≥ 0.5 mg/L, surfactants ≥ 0.25 mg/L, and detectable levels of chlorine.

The catchment area to this outfall has a suspected illicit connection based upon MS4 Permit criteria, which indicates likely sewer input.

The outfall sampling results exceed water quality standards/benchmark criteria.