

2018 Stormwater Sample Data at 1NE-outfall January - July

Station	Sample Start	Sample End	Sample Reason	Sample Type	Air Temperature (°F)	Water Temperature (°C)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Salinity (ppt)	Specific Conductivity (µS/cm)	Transparency (cm)	Alkalinity (mg/L)	Ammonia Nitrogen (mg/L)
1NE-outfall	01/08/2018 09:50		Base	Grab	27	5.9	876.0	11.34	7.1	0.69	1378.0	18	288	1.60
1NE-outfall	01/30/2018 09:30		Base	Grab	8	4.2	613.0	12.26	7.5	0.50	1018.0	> 100	272	0.41
1NE-outfall	02/13/2018 09:40		Base	Grab	15	4.1	420.3	12.88	7.7	0.34	699.0	> 100	165	0.57
1NE-outfall	02/22/2018 09:45		Base	Grab	16	3.5	897.0	12.49	7.8	0.76	1523.0	17	296	2.65
1NE-outfall	03/08/2018 09:10		Base	Grab	16	3.3	708.0	12.32	6.7	0.60	1210.0	> 100	152	0.56
1NE-outfall	03/26/2018 17:45	03/27/2018 06:45	Rain	Composite	35								69	0.61
1NE-outfall	03/27/2018 16:45	03/27/2018 20:10	Melt	Composite	38								95	0.74
1NE-outfall	04/02/2018 09:05		Base	Grab	28	5.3	594.0	11.41	6.7	0.47	954.0	> 100	229	0.35
1NE-outfall	04/12/2018 09:15		E Coli	Grab	40	5.7	721.0	12.11	7.8	0.57	1140.0	48		
1NE-outfall	04/19/2018 14:50	04/19/2018 19:05	Melt	Composite	35							6	49	0.21
1NE-outfall	05/04/2018 10:25		Base	Grab	65	11.5	784.0	10.38	7.6	0.53	1056.0	91	242	0.30
1NE-outfall	05/09/2018 00:50	05/09/2018 06:40	Rain	Composite	53								71	0.54
1NE-outfall	05/10/2018 09:20		E Coli	Grab	50	10.7	772.0	11.02		0.53	1062.0	66		
1NE-outfall	05/14/2018 17:30	05/14/2018 21:45	Rain	Composite	63								221	0.55
1NE-outfall	05/16/2018 09:30		Base	Grab	71	11.3	905.0	10.46	6.8	0.61	1226.0	> 100	308	0.17
1NE-outfall	05/24/2018 09:20		E Coli	Grab	78	12.8	967.0	10.38	7.6	0.63	1259.0	> 100		
1NE-outfall	06/12/2018 09:20		Base	Grab	72	13.6	962.0	9.79	7.2	0.62	1229.0	> 100	314	0.14
1NE-outfall	06/14/2018 08:40		E Coli	Grab	70	13.9	1023.0	10.33	8.0	0.65	1297.0	> 100		
1NE-outfall	06/16/2018 08:30	06/16/2018 11:50	Rain	Composite	67								49	0.11
1NE-outfall	06/17/2018 22:55	06/18/2018 03:10	Rain	Composite	67								37	0.09
1NE-outfall	06/26/2018 02:55	06/26/2018 04:35	Rain	Composite	65								20	0.11
1NE-outfall	06/27/2018 09:20		Base	Grab	68	17.8	696.0	8.70	7.2	0.40	807.0	> 100	195	0.08
1NE-outfall	06/28/2018 09:30		E Coli	Grab	78	16.5	874.0	8.83	7.2	0.52	1044.0	11		
1NE-outfall	06/29/2018 09:36		E Coli	Grab	78	17.6	1033.0	8.90	8.0	0.60	1203.0			
1NE-outfall	07/01/2018 10:00	07/01/2018 13:15	Rain	Composite	74								24	< 0.02
1NE-outfall	07/10/2018 09:40		Base	Grab		15.6	1017.0	9.40	7.3	0.62	1239.0	> 100	328	~ 0.06
1NE-outfall	07/12/2018 11:25		E Coli	Grab	83	16.7	1113.0	9.19	7.7	0.67	1323.0	> 100		
1NE-outfall	07/12/2018 18:05	07/12/2018 19:50	Rain	Composite	72								25	0.22
1NE-outfall	07/24/2018 09:55		Base	Grab	73	17.1	840.0	10.58	7.4	0.49	989.0	> 100	267	0.07
1NE-outfall	07/25/2018 15:15	07/25/2018 16:45	Rain	Composite	65									< 0.02

Station	Sample Start	Sample End	Carbonaceous					E. coli (MPN/ 100 mL)	Hardness (mg/L CaCO3)	Total Kjeldahl Nitrogen (mg/L)	Nitrate-		
			Biological Oxygen Demand 5-day (mg/L)	Chemical Oxygen Demand (mg/L)	Chloride (mg/L)	Dissolved Phosphorus (mg/L)	Ortho Phosphate (mg/L)				Total Phosphorus (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)
1NE-outfall	01/08/2018 09:50		0.2	59	102.4	< 0.02	~ 0.01	0.12	623	2.90	0.68		0.04
1NE-outfall	01/30/2018 09:30		0.4	~ 11	87.3	< 0.02	0.03	0.07	< 1	334	0.85	0.81	< 0.03
1NE-outfall	02/13/2018 09:40		0.3	28	65.8	0.09	0.05	0.10		265	0.75	1.22	< 0.03
1NE-outfall	02/22/2018 09:45		0.5	38	136.3	< 0.02	~ 0.01	0.17	< 1	704	3.50	0.55	< 0.03
1NE-outfall	03/08/2018 09:10		0.2	16	253.9	0.12	0.07	0.16		230	1.20	1.17	< 0.03
1NE-outfall	03/26/2018 17:45	03/27/2018 06:45	9.5	202	93.4	~ 0.03	0.11	0.80		84	3.80	0.65	0.04
1NE-outfall	03/27/2018 16:45	03/27/2018 20:10	6.0	48	82.4	0.16	0.13	0.35		124	2.20	0.66	0.04
1NE-outfall	04/02/2018 09:05		0.3	~ 13	97.9	0.06	0.04	0.10	< 1	317	0.94	1.41	< 0.03
1NE-outfall	04/12/2018 09:15								< 10				
1NE-outfall	04/19/2018 14:50	04/19/2018 19:05	3.6	65	301.9	~ 0.04	0.03	0.22		82	1.40	0.27	< 0.03
1NE-outfall	05/04/2018 10:25		0.4	15	114.9	0.08	0.05	0.09		350	1.10	1.49	0.04
1NE-outfall	05/09/2018 00:50	05/09/2018 06:40	> 26.0	196	58.8	0.24	0.20	0.92		165	3.90	0.41	0.06
1NE-outfall	05/10/2018 09:20								< 10				
1NE-outfall	05/14/2018 17:30	05/14/2018 21:45		155	148.2	0.06		0.44		356	3.20	0.92	0.21
1NE-outfall	05/16/2018 09:30		1.5	15	131.4	< 0.02	~ 0.01	~ 0.03		463	0.74	1.53	0.06
1NE-outfall	05/24/2018 09:20								80				
1NE-outfall	06/12/2018 09:20		1.4	22	109.8	< 0.02	~ 0.01	~ 0.03		431	0.79	1.14	0.10
1NE-outfall	06/14/2018 08:40								< 10				
1NE-outfall	06/16/2018 08:30	06/16/2018 11:50		105	37.3	0.09		0.48		56	3.00	0.18	0.06
1NE-outfall	06/17/2018 22:55	06/18/2018 03:10	8.7	126	30.1	~ 0.04	0.03	0.41		51	2.60	0.33	0.05
1NE-outfall	06/26/2018 02:55	06/26/2018 04:35	> 8.9	101	13.6	0.12	0.09	0.46		62	2.10	0.38	< 0.03
1NE-outfall	06/27/2018 09:20		2.0	37	81.1	0.07	0.04	0.10		290	0.73	1.04	0.07
1NE-outfall	06/28/2018 09:30								24200				
1NE-outfall	06/29/2018 09:36								36				
1NE-outfall	07/01/2018 10:00	07/01/2018 13:15	4.7	44	12.0	0.06	0.03	0.21		~ 20	1.00	0.18	0.18
1NE-outfall	07/10/2018 09:40		1.3	21	116.6	< 0.02	~ 0.01	~ 0.02		443	0.66	1.82	1.86
1NE-outfall	07/12/2018 11:25								40				
1NE-outfall	07/12/2018 18:05	07/12/2018 19:50	6.5	98	10.7	0.09	0.05	0.54		~ 13	3.00	0.40	0.50
1NE-outfall	07/24/2018 09:55		1.4	22	88.4	0.04	0.03	0.05		323	0.60	1.41	1.50
1NE-outfall	07/25/2018 15:15	07/25/2018 16:45		106	14.1	0.06	0.03	0.49			2.10	0.32	0.37

Station	Sample Start	Sample End	Sulfate (mg/L)	Total Biological Oxygen Demand 5- day (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Copper (mg/L)	Total Lead (mg/L)	Total Nickel (mg/L)	Total Zinc (mg/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)
1NE-outfall	01/08/2018 09:50		292.0	0.4							908	5.8	15	~ 6
1NE-outfall	01/30/2018 09:30		124.0	< 0.2	< 0.0004	0.0004	~ 0.0012	< 0.0002	0.0024	< 0.0100	614	3.8	3	~ 2
1NE-outfall	02/13/2018 09:40		77.0	< 0.2							431	4.1	4	~ 1
1NE-outfall	02/22/2018 09:45		348.5	0.5							1040	6.2	19	~ 5
1NE-outfall	03/08/2018 09:10		67.8	< 0.2	< 0.0002	0.0008	0.0022	0.0006	0.0018	0.0113	632	3.9	3	~ 1
1NE-outfall	03/26/2018 17:45	03/27/2018 06:45	28.7	15.0							380	11.1	283	96
1NE-outfall	03/27/2018 16:45	03/27/2018 20:10	50.4	7.3							349	10.4	27	11
1NE-outfall	04/02/2018 09:05		83.0	0.2	< 0.0002	0.0005	0.0021	~ 0.0003	0.0035	0.0073	542	4.5	2	2
1NE-outfall	04/12/2018 09:15													
1NE-outfall	04/19/2018 14:50	04/19/2018 19:05	32.8	5.2							480	5.5	90	28
1NE-outfall	05/04/2018 10:25		107.0	0.8	< 0.0002	0.0006	0.0020	~ 0.0001	0.0021	0.0084	617	6.5	~ 1	~ 1
1NE-outfall	05/09/2018 00:50	05/09/2018 06:40	39.4	> 26.0							292	26.2	272	88
1NE-outfall	05/10/2018 09:20													
1NE-outfall	05/14/2018 17:30	05/14/2018 21:45	138.0								682	20.7	120	50
1NE-outfall	05/16/2018 09:30		137.0	1.2							738	4.8	~ 1	~ 1
1NE-outfall	05/24/2018 09:20													
1NE-outfall	06/12/2018 09:20		166.0	1.5							754	6.5	~ 1	~ 1
1NE-outfall	06/14/2018 08:40													
1NE-outfall	06/16/2018 08:30	06/16/2018 11:50	97.1								174	11.3	153	56
1NE-outfall	06/17/2018 22:55	06/18/2018 03:10	18.8	12.0							128	6.2	136	40
1NE-outfall	06/26/2018 02:55	06/26/2018 04:35	5.0	> 8.8	~ 0.0002	0.0068	0.0218	0.0168	0.0052	0.1160	73	11.3	236	62
1NE-outfall	06/27/2018 09:20		87.1	2.2	< 0.0002	0.0004	0.0024	0.0005	0.0020	0.0119	481	7.3	~ 2	~ 2
1NE-outfall	06/28/2018 09:30													
1NE-outfall	06/29/2018 09:36													
1NE-outfall	07/01/2018 10:00	07/01/2018 13:15	6.1	6.3							71	6.9	66	20
1NE-outfall	07/10/2018 09:40		154.0	1.2							760	4.6	~ 2	~ 2
1NE-outfall	07/12/2018 11:25													
1NE-outfall	07/12/2018 18:05	07/12/2018 19:50	6.3	> 8.2							70	6.7	172	43
1NE-outfall	07/24/2018 09:55		118.5	1.0	< 0.0002	0.0003	0.0017	~ 0.0001	0.0022	0.0038	603	6.0	~ 1	~ 1
1NE-outfall	07/25/2018 15:15	07/25/2018 16:45	10.1								98	14.7	206	56

2018 Stormwater Sample Data at 1NE-outfall July - December

Station	Sample Start	Sample End	Sample Reason	Sample Type	Air Temperature (°F)	Water Temperature (°C)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Salinity (ppt)	Specific Conductivity (µS/cm)	Transparency (cm)	Alkalinity (mg/L)	Ammonia Nitrogen (mg/L)
1NE-outfall	07/26/2018 09:15		E Coli	Grab	65	16.7	800.0	9.03	7.9	0.47	951.0	> 100		
1NE-outfall	08/03/2018 21:00	08/04/2018 00:10	Rain	Composite	70								36	0.16
1NE-outfall	08/09/2018 11:55		E Coli	Grab	82	17.5	1126.0	9.25	7.9	0.66	1315.0	> 100		
1NE-outfall	08/10/2018 09:30		Base	Grab	75	16.1	1057.0	9.49	7.6	0.64	1271.0	> 100	332	0.09
1NE-outfall	08/23/2018 10:25		E Coli	Grab	72	16.5	1020.0	8.24	8.0	0.61	1217.0	> 100		
1NE-outfall	08/24/2018 10:10	08/24/2018 11:35	Rain	Composite	78								24	0.12
1NE-outfall	08/30/2018 09:10		Base	Grab	60	15.8	1051.0	9.37	7.5	0.64	1276.0	> 100	328	0.22
1NE-outfall	09/10/2018 09:35		Base	Grab	61	16.9	1005.0	9.16	7.3	0.59	1189.0	> 100	299	0.17
1NE-outfall	09/12/2018 09:00		E Coli	Grab	70	17.9	1147.0	9.12	7.4	0.67	1327.0	> 100		
1NE-outfall	09/24/2018 22:20	09/24/2018 22:45	Rain	Composite	53									0.30
1NE-outfall	09/26/2018 09:20		E Coli	Grab	47	14.8	828.0	9.25	7.8	0.51	1028.0	> 100		
1NE-outfall	09/27/2018 10:00		Base	Grab	55	15.0	1083.0	9.51	7.2	0.67	1338.0	> 100	344	0.65
1NE-outfall	10/08/2018 21:30	10/09/2018 02:00	Rain	Composite	50								67	0.17
1NE-outfall	10/09/2018 19:45	10/10/2018 01:50	Rain	Composite	45								30	0.08
1NE-outfall	10/10/2018 09:30		E Coli	Grab	45	11.2	730.0	10.04	7.5	0.49	992.0	14		
1NE-outfall	10/12/2018 09:35		Base	Grab									235	0.79
1NE-outfall	10/23/2018 09:40		Base	Grab	36	11.3	973.0	10.14	7.7	0.66	1318.0	78	347	0.50
1NE-outfall	10/24/2018 09:25		E Coli	Grab	34	11.7	1032.0	10.11	7.1	0.70	1382.0	61		
1NE-outfall	11/07/2018 09:30		Base	Grab										
1NE-outfall	11/14/2018 09:20		Base	Grab	21	9.8	878.0	10.88	7.0	0.62	1237.0	77	322	0.30
1NE-outfall	12/04/2018 09:30		Base	Grab	23	6.8	925.0	11.35	7.3	0.71	1421.0	40	355	1.14
1NE-outfall	12/17/2018 09:30		Base	Grab	25	8.3	887.0	12.93	7.8	0.65	1302.0	> 100	368	0.22

Station	Sample Start	Sample End	Carbonaceous					E. coli (MPN/ 100 mL)	Hardness (mg/L CaCO3)	Total Kjeldahl Nitrogen (mg/L)	Nitrate-			
			Biological Oxygen Demand 5-day (mg/L)	Chemical Oxygen Demand (mg/L)	Chloride (mg/L)	Dissolved Phosphorus (mg/L)	Ortho Phosphate (mg/L)				Total Phosphorus (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Nitrite (mg/L)
1NE-outfall	07/26/2018 09:15							1080						
1NE-outfall	08/03/2018 21:00	08/04/2018 00:10		91	14.5	0.05			53	1.10				
1NE-outfall	08/09/2018 11:55							100						
1NE-outfall	08/10/2018 09:30		1.1	~ 15	121.8	< 0.02	0.01	~ 0.02	500	0.57	1.58	1.65	0.08	
1NE-outfall	08/23/2018 10:25							1240						
1NE-outfall	08/24/2018 10:10	08/24/2018 11:35		99	4.8	0.10		0.47	26	2.00				
1NE-outfall	08/30/2018 09:10		1.2	20	109.3	< 0.02	~ 0.01	~ 0.03	446	0.86	1.54	1.66	0.12	
1NE-outfall	09/10/2018 09:35		1.2	~ 14	99.6	~ 0.05	~ 0.01	~ 0.04	481	0.81	1.88	2.03	0.15	
1NE-outfall	09/12/2018 09:00							35						
1NE-outfall	09/24/2018 22:20	09/24/2018 22:45			22.0	~ 0.04	0.03	0.39	55	2.60	0.59	0.64	0.06	
1NE-outfall	09/26/2018 09:20							565						
1NE-outfall	09/27/2018 10:00		1.1	16	127.3	< 0.02	< 0.01	~ 0.02	522	1.40	1.82	1.95	0.14	
1NE-outfall	10/08/2018 21:30	10/09/2018 02:00		47	19.8	~ 0.04	0.03	0.20	111	0.93	0.35	0.39	0.04	
1NE-outfall	10/09/2018 19:45	10/10/2018 01:50		44	5.6	0.05	0.04	0.21	~ 36	0.97	0.19	0.19	< 0.03	
1NE-outfall	10/10/2018 09:30							560						
1NE-outfall	10/12/2018 09:35		0.9	24	81.9	< 0.02	0.01	0.11	341	1.50	1.32	1.41	0.09	
1NE-outfall	10/23/2018 09:40		0.7	18	116.5	~ 0.02	0.01	~ 0.04	571	1.10	2.89	3.00	0.11	
1NE-outfall	10/24/2018 09:25							< 1						
1NE-outfall	11/07/2018 09:30													
1NE-outfall	11/14/2018 09:20		1.0	~ 13	118.7	< 0.02	< 0.01	< 0.02	1120	605	0.80	1.86	1.89	0.04
1NE-outfall	12/04/2018 09:30		0.7	22	87.5	< 0.02	< 0.01	~ 0.04		659	2.10	2.15	2.22	0.07
1NE-outfall	12/17/2018 09:30		1.5	~ 13	128.2	< 0.02	~ 0.01	< 0.02	88	538	0.66	1.46	1.49	0.03

Station	Sample Start	Sample End	Sulfate (mg/L)	Total Biological Oxygen Demand 5- day (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Copper (mg/L)	Total Lead (mg/L)	Total Nickel (mg/L)	Total Zinc (mg/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)
1NE-outfall	07/26/2018 09:15													
1NE-outfall	08/03/2018 21:00	08/04/2018 00:10	21.7								121	5.7	176	41
1NE-outfall	08/09/2018 11:55													
1NE-outfall	08/10/2018 09:30		168.5	0.9	< 0.0002	0.0002	0.0013	< 0.0001	0.0028	0.0046	792	4.6	~ 1	~ 1
1NE-outfall	08/23/2018 10:25													
1NE-outfall	08/24/2018 10:10	08/24/2018 11:35	7.8		~ 0.0004	0.0106	0.0279	0.0259	0.0075	0.1640	61	5.3	235	50
1NE-outfall	08/30/2018 09:10		175.0	1.0							816	5.4	~ 1	~ 1
1NE-outfall	09/10/2018 09:35		171.0	1.0	< 0.0002	0.0005	0.0018	~ 0.0004	0.0024	< 0.0050	743	5.0	~ 2	~ 2
1NE-outfall	09/12/2018 09:00													
1NE-outfall	09/24/2018 22:20	09/24/2018 22:45	12.0											
1NE-outfall	09/26/2018 09:20													
1NE-outfall	09/27/2018 10:00		216.0	0.5							864	7.5	~ 1	~ 1
1NE-outfall	10/08/2018 21:30	10/09/2018 02:00	34.3								191	8.2	35	~ 12
1NE-outfall	10/09/2018 19:45	10/10/2018 01:50	10.8								83	5.6	64	22
1NE-outfall	10/10/2018 09:30													
1NE-outfall	10/12/2018 09:35		146.0	0.9	< 0.0002	0.0010	0.0080	0.0044	0.0025	0.0253	596	8.1	25	~ 7
1NE-outfall	10/23/2018 09:40		198.0	1.0							842	5.7	3	~ 1
1NE-outfall	10/24/2018 09:25													
1NE-outfall	11/07/2018 09:30													
1NE-outfall	11/14/2018 09:20		167.0	0.7	< 0.0002	0.0002	0.0011	~ 0.0002	0.0031	< 0.0050	829	4.6	~ 1	~ 1
1NE-outfall	12/04/2018 09:30		284.0	1.0	< 0.0002	0.0001	0.0008	~ 0.0001	0.0024	< 0.0100	991	5.3	8	~ 2
1NE-outfall	12/17/2018 09:30		164.0	1.5							830	3.5	~ 1	~ 1