

2018 Stormwater Sample Data at 11CHF-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)
11CHF-outfall	01/08/2018 09:00		Base	Grab	30	6.7	687.0	10.00	6.4	0.52	1057.0	> 100	329	< 0.02
11CHF-outfall	01/26/2018 13:25	01/26/2018 13:45	Melt	Composite	5								59	0.92
11CHF-outfall	01/30/2018 09:00		Base	Grab	6	4.0	929.0	12.00	7.2	0.78	1550.0	45	197	0.34
11CHF-outfall	02/13/2018 09:10		Base	Grab	15	3.6	1698.0	12.71	7.1	1.48	2873.0	55	227	0.43
11CHF-outfall	02/22/2018 09:05		Base	Grab	16	4.4	2599.0	10.81	7.2	2.27	4290.0	77	199	0.35
11CHF-outfall	03/14/2018 15:10	03/14/2018 17:10	Melt	Composite	30									0.40
11CHF-outfall	03/26/2018 17:20	03/26/2018 21:50	Rain	Composite	34								43	0.44
11CHF-outfall	04/12/2018 08:50		E Coli	Grab	40	4.7	1046.0	14.24	7.8	0.86	1707.0	41		
11CHF-outfall	04/17/2018 14:05	04/17/2018 17:05	Melt	Composite	40								25	0.19
11CHF-outfall	04/19/2018 15:30	04/19/2018 18:20	Melt	Composite	32								27	0.07
11CHF-outfall	04/20/2018 14:15	04/20/2018 17:05	Melt	Composite	60								31	0.12
11CHF-outfall	04/26/2018 08:05		E Coli	Grab	45	9.1	708.0	10.46		0.51	1017.0	51		
11CHF-outfall	05/04/2018 09:05		Base	Grab	65	14.5	823.0	10.11	7.1	0.51	1030.0	66	152	0.14
11CHF-outfall	05/09/2018 00:20	05/09/2018 02:35	Rain	Composite	53								23	0.48
11CHF-outfall	05/10/2018 09:00		E Coli	Grab	50	11.2	619.0	10.90		0.41	840.0	45		
11CHF-outfall	05/16/2018 09:00		Base	Grab	69	17.2	815.0	9.17	6.8	0.47	985.0	28	87	0.12
11CHF-outfall	05/24/2018 08:45		E Coli	Grab	76	13.2	1050.0	9.49	7.1	0.68	1355.0	79		
11CHF-outfall	05/25/2018 03:00	05/25/2018 05:00	Rain	Composite	80								21	0.21
11CHF-outfall	06/06/2018 05:50	06/06/2018 07:45	Rain	Composite	64								36	0.71
11CHF-outfall	06/12/2018 08:40		Base	Grab	72	13.1	601.0	9.08	7.1	0.38	777.0	74	243	0.09
11CHF-outfall	06/14/2018 08:20		E Coli	Grab	70	14.9	949.0	9.80	7.8	0.59	1176.0	> 100		
11CHF-outfall	06/16/2018 08:35	06/16/2018 12:15	Rain	Composite	67								24	0.28
11CHF-outfall	06/17/2018 17:25	06/17/2018 18:30	Rain	Composite	67								20	0.16
11CHF-outfall	06/17/2018 22:55	06/17/2018 23:35	Rain	Composite	67								18	0.14
11CHF-outfall	06/26/2018 02:40	06/26/2018 04:35	Rain	Composite	65								10	0.28
11CHF-outfall	06/27/2018 08:55		Base	Grab	67	20.0	327.1	8.30	7.4	0.17	358.4	43	44	0.30
11CHF-outfall	06/28/2018 10:10		E Coli	Grab	78	16.7	1119.0	8.68	7.4	0.67	1331.0	> 100		
11CHF-outfall	07/01/2018 09:40	07/01/2018 12:20	Rain	Composite	72								14	< 0.02
11CHF-outfall	07/04/2018 09:55	07/04/2018 10:35	Rain	Composite	75								21	0.30
11CHF-outfall	07/10/2018 09:10		Base	Grab		16.9	1014.0	8.96	7.1	0.60	1199.0	> 100	309	< 0.02
11CHF-outfall	07/12/2018 12:05		E Coli	Grab	83	16.6	1023.0	9.14	7.8	0.61	1218.0	> 100		

Station	Sample Start	Sample End	Carbonaceous					Dissolved Phosphorus (mg/L)	Ortho Phosphate (mg/L)	Total Phosphorus (mg/L)	E. coli (MPN/100 mL)	Hardness (mg/L CaCO3)	Total Kjeldahl Nitrogen		Nitrate-Nitrite	
			Biological Oxygen Demand 5-day (mg/L)	Chemical Oxygen Demand (mg/L)	Chloride (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)						Nitrate (mg/L)	Nitrite (mg/L)		
11CHF-outfall	01/08/2018 09:00		0.8	25	95.5	~ 0.04	0.03	0.07			406	0.36	1.70		< 0.03	
11CHF-outfall	01/26/2018 13:25	01/26/2018 13:45		320	2250.8	0.12		0.98			111	6.40	0.24		0.17	
11CHF-outfall	01/30/2018 09:00		3.3	25	936.4	0.12	0.04	0.14	7500	238	1.20	0.98		0.04		
11CHF-outfall	02/13/2018 09:10		1.8	37	746.8	~ 0.04	0.03	0.14		313	1.00	1.10		0.05		
11CHF-outfall	02/22/2018 09:05		3.1	168	1270.3	0.07	0.05	0.14	517	291	1.20	0.94		0.05		
11CHF-outfall	03/14/2018 15:10	03/14/2018 17:10			172.9	0.24	0.21	0.50			2.90	0.22		0.04		
11CHF-outfall	03/26/2018 17:20	03/26/2018 21:50	19.0	170	180.8	0.15	0.12	0.43		73	2.50	0.59		0.04		
11CHF-outfall	04/12/2018 08:50								2220							
11CHF-outfall	04/17/2018 14:05	04/17/2018 17:05	18.0	146	510.1	0.08	0.06	0.49		63	2.40	0.20		0.04		
11CHF-outfall	04/19/2018 15:30	04/19/2018 18:20			242.0	0.06	0.03	0.15			1.10	0.23		< 0.03		
11CHF-outfall	04/20/2018 14:15	04/20/2018 17:05		34	138.8	~ 0.05		0.14		25	1.10	0.20		< 0.03		
11CHF-outfall	04/26/2018 08:05								50							
11CHF-outfall	05/04/2018 09:05		2.3	20	181.6	~ 0.03	0.02	0.09		207	1.00	0.88		< 0.03		
11CHF-outfall	05/09/2018 00:20	05/09/2018 02:35	> 26.0	219	39.4	0.34	0.26	0.86		65	3.90	0.36		0.04		
11CHF-outfall	05/10/2018 09:00								580							
11CHF-outfall	05/16/2018 09:00		6.3	50	219.3	0.06	0.02	0.23		96	2.40	< 0.05		< 0.03		
11CHF-outfall	05/24/2018 08:45								170							
11CHF-outfall	05/25/2018 03:00	05/25/2018 05:00	23.0	344	15.7	0.15	0.13	1.26		~ 22	5.30	0.40		0.03		
11CHF-outfall	06/06/2018 05:50	06/06/2018 07:45		123	15.5	0.15		0.44		~ 11	3.40	0.69		0.06		
11CHF-outfall	06/12/2018 08:40		1.8	32	74.8	0.16	0.04	0.13		272	0.68	0.75		0.03		
11CHF-outfall	06/14/2018 08:20								50							
11CHF-outfall	06/16/2018 08:35	06/16/2018 12:15		92	13.8	0.11		0.37		27	2.50	0.15		0.04		
11CHF-outfall	06/17/2018 17:25	06/17/2018 18:30	19.0	195	9.3	0.05	0.01	0.66		~ 23	4.10	0.32		0.03		
11CHF-outfall	06/17/2018 22:55	06/17/2018 23:35	13.0	94	15.5	0.05	0.03	0.31		~ 17	1.90	0.27		0.03		
11CHF-outfall	06/26/2018 02:40	06/26/2018 04:35	8.1	101	6.0	0.16	0.12	0.71		~ 24	2.50	0.50		0.03		
11CHF-outfall	06/27/2018 08:55		6.1	42	74.0	0.06	0.04	0.27		44	1.90	0.25		0.05		
11CHF-outfall	06/28/2018 10:10								210							
11CHF-outfall	07/01/2018 09:40	07/01/2018 12:20	4.3	55	4.9	0.08	0.05	0.26		< 8	1.20	0.20	0.20	< 0.03		
11CHF-outfall	07/04/2018 09:55	07/04/2018 10:35		112	8.7	0.06		0.43		~ 17	2.80	0.48	0.56	0.08		
11CHF-outfall	07/10/2018 09:10		0.9	21	162.6	~ 0.04	0.02	0.07		383	0.42	2.50	2.50	< 0.03		
11CHF-outfall	07/12/2018 12:05								> 24200							

2018 Stormwater Sample Data at 11CHF-outfall January - July continued

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)
11CHF-outfall	01/08/2018 09:00		64.3	0.5							645	2.0	12	~ 2
11CHF-outfall	01/26/2018 13:25	01/26/2018 13:45	31.0								3690	8.5	537	177
11CHF-outfall	01/30/2018 09:00		44.4	3.6	< 0.0004	0.0015	0.0052	~ 0.0010	0.0039	0.0315	1560	3.5	5	3
11CHF-outfall	02/13/2018 09:10		48.1	1.6							1480	3.0	5	3
11CHF-outfall	02/22/2018 09:05		42.5	3.0							2310	2.2	3	~ 2
11CHF-outfall	03/14/2018 15:10	03/14/2018 17:10										14.8	118	33
11CHF-outfall	03/26/2018 17:20	03/26/2018 21:50	7.0	22.0							250	11.8	296	126
11CHF-outfall	04/12/2018 08:50													
11CHF-outfall	04/17/2018 14:05	04/17/2018 17:05	9.7	21.0							916	7.1	139	63
11CHF-outfall	04/19/2018 15:30	04/19/2018 18:20		6.7							470	5.8	41	16
11CHF-outfall	04/20/2018 14:15	04/20/2018 17:05	5.5								312	4.6	33	12
11CHF-outfall	04/26/2018 08:05													
11CHF-outfall	05/04/2018 09:05		34.5	3.0	< 0.0002	0.0009	0.0030	0.0007	0.0024	0.0203	523	5.0	6	4
11CHF-outfall	05/09/2018 00:20	05/09/2018 02:35	7.6	> 26.0							134	27.0	433	129
11CHF-outfall	05/10/2018 09:00													
11CHF-outfall	05/16/2018 09:00		10.5	> 8.8							499	9.0	16	11
11CHF-outfall	05/24/2018 08:45													
11CHF-outfall	05/25/2018 03:00	05/25/2018 05:00	4.8	> 26.0							86	13.0	618	187
11CHF-outfall	06/06/2018 05:50	06/06/2018 07:45	4.2								88	18.8	225	71
11CHF-outfall	06/12/2018 08:40		44.1	1.8							436	7.7	7	4
11CHF-outfall	06/14/2018 08:20													
11CHF-outfall	06/16/2018 08:35	06/16/2018 12:15	3.4								80	13.0	86	32
11CHF-outfall	06/17/2018 17:25	06/17/2018 18:30	3.5	> 25.0							69	13.8	354	110
11CHF-outfall	06/17/2018 22:55	06/17/2018 23:35	3.1	14.0							78	11.0	338	61
11CHF-outfall	06/26/2018 02:40	06/26/2018 04:35	1.8	> 8.9	~ 0.0002	0.0080	0.0173	0.0132	0.0057	0.1130	57	11.0	140	38
11CHF-outfall	06/27/2018 08:55		4.0	> 8.6	< 0.0002	0.0008	0.0127	0.0012	0.0013	0.0171	194	8.2	14	8
11CHF-outfall	06/28/2018 10:10													
11CHF-outfall	07/01/2018 09:40	07/01/2018 12:20	1.2	6.1							42	5.0	73	22
11CHF-outfall	07/04/2018 09:55	07/04/2018 10:35	3.5								70	10.3	183	56
11CHF-outfall	07/10/2018 09:10		60.7	0.6							680	3.0	~ 1	~ 1
11CHF-outfall	07/12/2018 12:05													

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)
11CHF-outfall	07/12/2018 17:50	07/12/2018 21:05	Rain	Composite	72								21	0.45
11CHF-outfall	07/24/2018 09:05		Base	Grab	71	17.5	959.0	10.49	7.1	0.56	1120.0	> 100	308	~ 0.03
11CHF-outfall	07/26/2018 11:45		E Coli	Grab	64	16.1	736.0	8.34	7.7	0.44	886.0	> 100		
11CHF-outfall	08/03/2018 09:20	08/03/2018 10:00	Rain	Composite	69								25	0.28
11CHF-outfall	08/03/2018 20:55	08/03/2018 21:40	Rain	Composite	69								10	0.31
11CHF-outfall	08/09/2018 12:15		E Coli	Grab	84	17.7	830.0	8.96	8.0	0.48	964.0	> 100		
11CHF-outfall	08/10/2018 09:00		Base	Grab	75	21.7	942.0	8.52	7.4	0.50	1005.0	> 100	312	< 0.02
11CHF-outfall	08/20/2018 18:05	08/20/2018 19:30	Rain	Composite	64								22	0.21
11CHF-outfall	08/23/2018 09:55		E Coli	Grab	70	17.1	864.0	7.83	7.8	0.51	1019.0	> 100		
11CHF-outfall	08/24/2018 10:10	08/24/2018 11:10	Rain	Composite	75								12	0.16
11CHF-outfall	08/30/2018 08:35		Base	Grab	60	18.3	809.0	8.49	7.2	0.46	928.0	> 100	278	~ 0.02
11CHF-outfall	09/10/2018 09:00		Base	Grab	58	16.2	1205.0	9.15	7.1	0.73	1447.0	> 100	343	~ 0.02
11CHF-outfall	09/12/2018 08:35		E Coli	Grab	70	17.5	976.0	8.69	7.3	0.57	1139.0	> 100		
11CHF-outfall	09/17/2018 15:20	09/18/2018 02:55	Rain	Composite	59								33	0.14
11CHF-outfall	09/20/2018 06:50	09/20/2018 12:25	Rain	Composite	52								22	0.06
11CHF-outfall	09/26/2018 08:55		E Coli	Grab	45	15.4	214.5	9.12	8.5	0.13	262.7	81		
11CHF-outfall	09/27/2018 09:30		Base	Grab	56	15.0	953.0	10.16	7.3	0.59	1177.0	> 100	310	~ 0.05
11CHF-outfall	10/23/2018 08:55		Base	Grab	30	12.5	945.0	9.81	7.3	0.62	1240.0	> 100	340	~ 0.03
11CHF-outfall	10/24/2018 08:50		E Coli	Grab	31	12.5	811.0	9.31	7.8	0.53	1065.0	> 100		
11CHF-outfall	11/06/2018 02:15	11/06/2018 04:05	Rain	Composite	40								17	~ 0.06
11CHF-outfall	11/07/2018 08:55		E Coli	Grab	29	9.2	572.0	12.00	7.6	0.40	819.0	41		
11CHF-outfall	11/26/2018 09:00		Base	Grab	15	7.2	297.4	10.95	8.2	0.22	451.1	39	119	~ 0.02
11CHF-outfall	12/04/2018 09:05		Base	Grab	23	6.2	372.8	11.48	8.7	0.28	582.0	60	93	0.18
11CHF-outfall	12/17/2018 09:00		Base	Grab	24	8.6	590.0	11.13	7.4	0.42	860.0	> 100	183	0.08

2018 Stormwater Sample Data at 11CHF-outfall July - December continued

Station	Sample Start	Sample End	Carbonaceous					Dissolved Phosphorus (mg/L)	Ortho Phosphate (mg/L)	Total Phosphorus (mg/L)	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)	Nitrate (mg/L)	Nitrite (mg/L)								
11CHF-outfall	07/12/2018 17:50	07/12/2018 21:05	6.5	77	9.3	0.14	0.10	0.34		< 8	2.10	0.49	0.58	0.09	
11CHF-outfall	07/24/2018 09:05		0.7	~ 9	125.3	~ 0.04	0.04	0.07		348	0.39	2.55	2.55	< 0.03	
11CHF-outfall	07/26/2018 11:45								1180						
11CHF-outfall	08/03/2018 09:20	08/03/2018 10:00		213	5.7	0.13		0.67		30	3.30				
11CHF-outfall	08/03/2018 20:55	08/03/2018 21:40		56	< 2.0	0.09		0.32		~ 17	1.70				
11CHF-outfall	08/09/2018 12:15								4110						
11CHF-outfall	08/10/2018 09:00		1.0	~ 11	99.8	~ 0.03	0.02	0.06		366	0.45	2.48	2.48	< 0.03	
11CHF-outfall	08/20/2018 18:05	08/20/2018 19:30	20.0	161	9.2	0.19	0.15	0.91		26	3.70	0.43	0.54	0.11	
11CHF-outfall	08/23/2018 09:55								910						
11CHF-outfall	08/24/2018 10:10	08/24/2018 11:10		85	< 2.0	0.10		0.34		< 8	1.80				
11CHF-outfall	08/30/2018 08:35		1.3	18	97.4	~ 0.02	0.02	0.06		331	2.60	2.34	2.34	< 0.03	
11CHF-outfall	09/10/2018 09:00		1.0	~ 6	148.0	< 0.02	0.01	~ 0.04		506	0.44	2.69	2.69	< 0.03	
11CHF-outfall	09/12/2018 08:35								2995						
11CHF-outfall	09/17/2018 15:20	09/18/2018 02:55	> 9.0	77	16.7	0.11	0.08	0.32		32	2.10	0.39	0.49	0.09	
11CHF-outfall	09/20/2018 06:50	09/20/2018 12:25	7.2	47	8.0	0.05	0.03	0.13		~ 17	1.00	0.16	0.19	0.03	
11CHF-outfall	09/26/2018 08:55								2910						
11CHF-outfall	09/27/2018 09:30		1.3	~ 10	157.6	~ 0.02	0.01	~ 0.04		519	0.43	2.57	2.57	< 0.03	
11CHF-outfall	10/23/2018 08:55		0.9	~ 10	148.7	~ 0.04	0.03	~ 0.03		132	0.30	3.08	3.08	< 0.03	
11CHF-outfall	10/24/2018 08:50								304						
11CHF-outfall	11/06/2018 02:15	11/06/2018 04:05		72	3.5	0.17	0.11	0.21		~ 18	0.73	0.15	0.15	< 0.03	
11CHF-outfall	11/07/2018 08:55								9210						
11CHF-outfall	11/26/2018 09:00		8.1	44	68.7	0.16	0.12	0.24		126	0.84	0.45	0.45	< 0.03	
11CHF-outfall	12/04/2018 09:05		3.7	30	115.2	0.14	0.14	0.19		104	0.89	0.40	0.40	< 0.03	
11CHF-outfall	12/17/2018 09:00		2.4	17	126.3	~ 0.04	0.03	0.09		194	253	0.54	1.08	1.13	0.04

2018 Stormwater Sample Data at 11CHF-outfall July - December continued

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)
11CHF-outfall	07/12/2018 17:50	07/12/2018 21:05	3.0	> 8.5							53	9.2	49	13
11CHF-outfall	07/24/2018 09:05		50.9	0.4	< 0.0002	0.0003	0.0013	~ 0.0001	0.0016	0.0096	620	3.5	~ 1	~ 1
11CHF-outfall	07/26/2018 11:45													
11CHF-outfall	08/03/2018 09:20	08/03/2018 10:00	2.6								76	12.4	224	74
11CHF-outfall	08/03/2018 20:55	08/03/2018 21:40	1.4								42	4.6	102	29
11CHF-outfall	08/09/2018 12:15													
11CHF-outfall	08/10/2018 09:00		50.6	0.7	< 0.0002	0.0005	0.0020	~ 0.0002	0.0019	0.0083	566	3.1	~ 1	~ 1
11CHF-outfall	08/20/2018 18:05	08/20/2018 19:30	4.4	> 25.0							89	21.8	166	66
11CHF-outfall	08/23/2018 09:55													
11CHF-outfall	08/24/2018 10:10	08/24/2018 11:10	2.1		< 0.0002	0.0039	0.0143	0.0131	0.0038	0.0984	34	5.6	139	34
11CHF-outfall	08/30/2018 08:35		47.5	1.1							549	3.7	3	~ 1
11CHF-outfall	09/10/2018 09:00		133.0	0.5	< 0.0002	< 0.0005	0.0014	~ 0.0002	0.0037	0.0101	790	3.0	~ 1	~ 2
11CHF-outfall	09/12/2018 08:35													
11CHF-outfall	09/17/2018 15:20	09/18/2018 02:55	3.8	> 8.7							90	15.0	37	20
11CHF-outfall	09/20/2018 06:50	09/20/2018 12:25	2.5	> 9.0							50	8.7	30	18
11CHF-outfall	09/26/2018 08:55													
11CHF-outfall	09/27/2018 09:30		96.5	0.8							746	3.3	< 1	~ 1
11CHF-outfall	10/23/2018 08:55		91.8	0.5							730	4.4	~ 1	~ 1
11CHF-outfall	10/24/2018 08:50													
11CHF-outfall	11/06/2018 02:15	11/06/2018 04:05	1.7		< 0.0002	0.0009	0.0042	0.0016	0.0013	0.0410	51	19.5	22	14
11CHF-outfall	11/07/2018 08:55													
11CHF-outfall	11/26/2018 09:00		13.5	8.1							269	12.4	7	7
11CHF-outfall	12/04/2018 09:05		16.7	3.9	< 0.0002	0.0004	0.0023	0.0006	0.0010	0.0178	334	7.8	~ 4	~ 4
11CHF-outfall	12/17/2018 09:00		32.5	2.2							489	5.1	3	~ 2