

2017 Stormwater Sample Data at 6UMN-outfall

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)
6UMN-outfall	02/10/2017 09:45		Base	Grab	80	7.6	806.0	11.23	8.0	0.60	1209.0	> 100	323	~ 0.04
6UMN-outfall	06/13/2017 11:10		Base	Grab	70	16.9	964.0	10.84	7.8	0.57	1141.0	> 100	297	~ 0.03
6UMN-outfall	06/17/2017 21:05	06/18/2017 02:30	Rain	Composite	70								61	< 0.02
6UMN-outfall	06/20/2017 05:55	06/20/2017 11:05	Rain	Composite	70								102	~ 0.04
6UMN-outfall	06/27/2017 11:20		Base	Grab	68	13.7	989.0	10.92	7.9	0.63	1260.0	> 100	334	~ 0.03
6UMN-outfall	06/28/2017 04:30	06/28/2017 14:35	Rain	Composite	60							32	52	< 0.02
6UMN-outfall	07/05/2017 10:30		E Coli	Grab	76	16.2	873.0	9.77	7.8	5.52	1049.0	> 100		
6UMN-outfall	07/11/2017 10:20		Base	Grab	75	15.5	994.0	10.47	8.0	0.61	1215.0	> 100	311	~ 0.05
6UMN-outfall	07/17/2017 22:45	07/18/2017 00:45	Rain	Composite	76							31	26	~ 0.04
6UMN-outfall	07/19/2017 10:45		E Coli	Grab	76	18.1	993.5	9.57	8.2	0.60	1143.2	> 100		
6UMN-outfall	07/25/2017 09:15		Base	Grab	70	15.4	987.0	10.89	7.9	0.61	1210.0	> 100	327	< 0.02
6UMN-outfall	07/25/2017 19:00	07/25/2017 20:15	Rain	Composite	73								27	~ 0.04
6UMN-outfall	07/26/2017 04:25	07/26/2017 05:00	Rain	Composite	73								20	0.31
6UMN-outfall	08/02/2017 10:35		E Coli	Grab	75	17.2	1090.2	9.10	8.0	0.60	1277.4	> 100		
6UMN-outfall	08/03/2017 07:30	08/03/2017 09:20	Rain	Composite	60								30	~ 0.02
6UMN-outfall	08/06/2017 14:10	08/06/2017 15:20	Rain	Composite	75								18	0.22
6UMN-outfall	08/09/2017 15:05	08/09/2017 18:25	Rain	Composite	75								22	0.07
6UMN-outfall	08/15/2017 10:55		E Coli	Grab	70	15.3	990.0	10.32	7.6	0.61	1216.0	> 100		
6UMN-outfall	08/22/2017 10:55		Base	Grab	65	15.4	1002.0	10.84	7.7	0.62	1229.0	> 100	334	~ 0.02
6UMN-outfall	08/28/2017 11:40		Base	Grab	65	15.6	984.0	10.27	7.9	0.60	1201.0	> 100	323	~ 0.06
6UMN-outfall	09/06/2017 10:25		E Coli	Grab	60	13.8	965.0	10.47	7.8	0.61	1226.0	> 100		
6UMN-outfall	09/12/2017 10:45		Base	Grab	75	14.9	988.0	10.26	7.9	0.61	1225.0	> 100	332	< 0.02
6UMN-outfall	09/20/2017 03:05	09/20/2017 03:55	Rain	Composite	70								20	0.10
6UMN-outfall	09/20/2017 09:50		E Coli	Grab	70							50		
6UMN-outfall	09/28/2017 10:40		Base	Grab	61	13.9	949.0	10.79	7.8	0.60	1205.0	> 100	322	0.03
6UMN-outfall	11/01/2017 10:55		E Coli	Grab	35	9.4	859.0	10.89	8.4	0.61	1225.0	> 100		
6UMN-outfall	11/15/2017 10:35		E Coli	Grab	30	9.4	766.0	10.57	7.5	0.54	1091.0	90		
6UMN-outfall	11/21/2017 10:25		Base	Grab	20	7.7	816.0	11.58	8.2	0.61	1219.0	> 100	297	< 0.02
6UMN-outfall	12/04/2017 19:30	12/04/2017 22:40	Rain	Composite	15								39	0.78
6UMN-outfall	12/08/2017 12:10		Base	Grab	25	8.7	1182.0	11.92	8.3	0.87	1715.0	> 100	322	~ 0.05

2017 Stormwater Sample Data at 6UMN-outfall continued

Station	Sample Start	Sample End	Carbonaceous					Dissolved Phosphorus (mg/L)	Ortho Phosphate (mg/L)	Total Phosphorus (mg/L)	E. coli (MPN/ mL)	Hardness (mg/L CaCO3)	Total	
			Biological Oxygen Demand 5-day (mg/L)	Chemical Oxygen Demand (mg/L)	Chloride (mg/L)	Kjeldahl Nitrogen (mg/L)	Nitrate (mg/L)						Nitrite (mg/L)	
6UMN-outfall	02/10/2017 09:45		0.8	< 5	164.0	~ 0.04	0.01	~ 0.05		480	0.26	0.96	< 0.03	
6UMN-outfall	06/13/2017 11:10		1.6	~ 13	146.7	0.06	0.03	0.08		460	0.36	1.00	< 0.03	
6UMN-outfall	06/17/2017 21:05	06/18/2017 02:30		81	29.7	0.08		0.29		120	1.70	0.46	0.08	
6UMN-outfall	06/20/2017 05:55	06/20/2017 11:05	> 8.6	52	48.7	0.08	0.04	0.19		128	0.93	0.89	0.04	
6UMN-outfall	06/27/2017 11:20		2.1	~ 9	168.5	< 0.02	0.02	~ 0.04		476	0.49	1.11	< 0.03	
6UMN-outfall	06/28/2017 04:30	06/28/2017 14:35		49	21.8	0.06		0.19		64	0.94	0.34	0.06	
6UMN-outfall	07/05/2017 10:30								320					
6UMN-outfall	07/11/2017 10:20		1.5	< 5	161.7	0.02	0.01	0.02		422	0.31	1.01	< 0.03	
6UMN-outfall	07/17/2017 22:45	07/18/2017 00:45	> 8.0	73	5.7	< 0.02	< 0.01	0.22		~ 19	1.30	0.40	< 0.03	
6UMN-outfall	07/19/2017 10:45								740					
6UMN-outfall	07/25/2017 09:15		1.4	18	164.5	< 0.02	~ 0.01	~ 0.04		514	0.43	1.00	< 0.03	
6UMN-outfall	07/25/2017 19:00	07/25/2017 20:15	> 8.6	137	10.1	0.05	0.02	0.51		79	2.40	0.34	0.05	
6UMN-outfall	07/26/2017 04:25	07/26/2017 05:00	7.2	74	4.8	~ 0.03	0.03	0.21		47	1.30	1.60	< 0.03	
6UMN-outfall	08/02/2017 10:35								30					
6UMN-outfall	08/03/2017 07:30	08/03/2017 09:20		119	10.5	0.11		0.47		54	2.10	0.34	< 0.03	
6UMN-outfall	08/06/2017 14:10	08/06/2017 15:20	6.5	70	3.5	< 0.02	0.02	0.24		48	1.80	0.29	< 0.03	
6UMN-outfall	08/09/2017 15:05	08/09/2017 18:25	4.1	39	5.9	~ 0.03	0.02	0.10		~ 23	0.74	0.29	0.03	
6UMN-outfall	08/15/2017 10:55								30					
6UMN-outfall	08/22/2017 10:55		1.3	~ 7	169.5	~ 0.03	0.02	~ 0.04		425	0.36	1.06	< 0.03	
6UMN-outfall	08/28/2017 11:40		1.3	~ 5	158.7	~ 0.02	0.03	0.05		493	0.45	1.09	< 0.03	
6UMN-outfall	09/06/2017 10:25								10					
6UMN-outfall	09/12/2017 10:45		1.4	~ 10	169.3	~ 0.02	0.01	~ 0.03		446	0.28	1.05	< 0.03	
6UMN-outfall	09/20/2017 03:05	09/20/2017 03:55		114	5.0	0.16		0.57		30	1.70	0.31	< 0.03	
6UMN-outfall	09/20/2017 09:50								1190					
6UMN-outfall	09/28/2017 10:40		1.0	~ 10	157.8	~ 0.03	0.02	0.05		423	0.35	0.91	< 0.03	
6UMN-outfall	11/01/2017 10:55								< 10					
6UMN-outfall	11/15/2017 10:35								1220					
6UMN-outfall	11/21/2017 10:25		1.5	17	145.1	0.02	0.01	0.06		378	0.41	0.76	< 0.03	
6UMN-outfall	12/04/2017 19:30	12/04/2017 22:40	> 9.0	144	39.3	0.34	0.30	0.83		74	3.10	0.69	0.07	
6UMN-outfall	12/08/2017 12:10		1.3	23	412.6	< 0.02	0.01	0.02		474	0.55	0.76	< 0.03	

2017 Stormwater Sample Data at 6UMN-outfall 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)
6UMN-outfall	02/10/2017 09:45		64.3	0.3	< 0.0002	0.0002	0.0010	~ 0.0002	0.0055	0.0069	652	2.5	4	~ 1
6UMN-outfall	06/13/2017 11:10		60.4	1.6	< 0.0002	0.0003	0.0021	0.0007	0.0052	0.0118	654	4.3	~ 2	
6UMN-outfall	06/17/2017 21:05	06/18/2017 02:30	14.0								163	12.9	95	
6UMN-outfall	06/20/2017 05:55	06/20/2017 11:05	21.6	> 9.0							245	12.1	26	
6UMN-outfall	06/27/2017 11:20		69.1	1.7							709	3.3	~ 1	
6UMN-outfall	06/28/2017 04:30	06/28/2017 14:35	11.0								112	11.3	47	
6UMN-outfall	07/05/2017 10:30													
6UMN-outfall	07/11/2017 10:20		67.1	0.8	< 0.0002	0.0002	0.0011	0.0002	0.0043	0.0044	696	2.6	1	1
6UMN-outfall	07/17/2017 22:45	07/18/2017 00:45	3.4	> 8.0	< 0.0002	0.0041	0.0146	0.0091	0.0040	0.0880	58	8.4	117	46
6UMN-outfall	07/19/2017 10:45													
6UMN-outfall	07/25/2017 09:15		64.2	0.9							689	2.7	~ 2	~ 1
6UMN-outfall	07/25/2017 19:00	07/25/2017 20:15	6.4	> 8.7							84	12.7	240	88
6UMN-outfall	07/26/2017 04:25	07/26/2017 05:00	3.5	7.8							54	8.0	125	36
6UMN-outfall	08/02/2017 10:35													
6UMN-outfall	08/03/2017 07:30	08/03/2017 09:20	6.5								78	14.5	114	43
6UMN-outfall	08/06/2017 14:10	08/06/2017 15:20	2.6	7.9							42	4.8	145	36
6UMN-outfall	08/09/2017 15:05	08/09/2017 18:25	3.5	6.4	< 0.0002	0.0046	0.0101	0.0062	0.0025	0.0524	58	5.3	44	15
6UMN-outfall	08/15/2017 10:55													
6UMN-outfall	08/22/2017 10:55		64.9	0.7	< 0.0002	0.0003	0.0013	~ 0.0004	0.0050	< 0.0050	663	3.0	~ 1	~ 1
6UMN-outfall	08/28/2017 11:40		62.9	0.9							687	2.6	4	~ 2
6UMN-outfall	09/06/2017 10:25													
6UMN-outfall	09/12/2017 10:45		66.3	1.0							706	2.1	~ 1	~ 1
6UMN-outfall	09/20/2017 03:05	09/20/2017 03:55	4.5								65	7.7	225	61
6UMN-outfall	09/20/2017 09:50													
6UMN-outfall	09/28/2017 10:40		63.7	0.8	< 0.0002	< 0.0005	0.0013	0.0003	0.0050	< 0.0050	667	2.3	~ 2	2
6UMN-outfall	11/01/2017 10:55													
6UMN-outfall	11/15/2017 10:35													
6UMN-outfall	11/21/2017 10:25		60.2	1.1	< 0.0002	0.0004	0.0022	0.0010	0.0056	0.0073	649	2.9	7	
6UMN-outfall	12/04/2017 19:30	12/04/2017 22:40	11.1	> 9.0							160	17.6	215	65
6UMN-outfall	12/08/2017 12:10		60.8	1.1							1025	2.0	4	~ 2