

2021 Stormwater Sample Data - 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	01/05/2021 11:15		Base	Grab	17	8.1	1073	11.50	8.1	0.80	1582	> 100	335	0.36
6UMN-outfall	01/19/2021 10:15		Base	Grab	15	5.4	781	11.84	7.7	0.62	1247	> 100	326	< 0.06
6UMN-outfall	02/02/2021 10:00		Base	Grab	22	5.5	780	12.39	8.7	0.62	1245	> 100	309	< 0.06
6UMN-outfall	02/23/2021 12:08	02/24/2021 00:26	Melt	Composite	33								147	1.20
6UMN-outfall	02/24/2021 10:55	02/24/2021 20:35	Melt	Composite	28								116	0.73
6UMN-outfall	02/26/2021 12:20	02/26/2021 22:00	Melt	Composite	14								117	0.38
6UMN-outfall	03/02/2021 14:40	03/03/2021 00:25	Melt	Composite	36								100	0.46
6UMN-outfall	03/03/2021 12:15	03/03/2021 20:30	Melt	Composite	41	9.3	1235	10.60	8.2	0.90	1766		141	0.33
6UMN-outfall	03/10/2021 11:35	03/10/2021 18:45	Rain	Composite	36								49	0.67
6UMN-outfall	03/23/2021 16:04	03/23/2021 21:31	Rain	Composite	39								45	0.15
6UMN-outfall	04/06/2021 09:30		Base	Grab	57	12.9	848	10.40	8.6	0.55	1102	> 100	305	0.06
6UMN-outfall	05/18/2021 09:10		Base	Grab	70	14.5	953	10.36	7.6	0.60	1194	91	305	< 0.06
6UMN-outfall	06/01/2021 10:40		Base	Grab	72	13.9	958	10.17	7.2	0.61	1216	100	341	< 0.06
6UMN-outfall	06/15/2021 09:00		Base	Grab								84	342	< 0.06
6UMN-outfall	07/08/2021 09:15		Base	Grab	62	15.1	944	9.97	7.4	0.58	1164	> 100	295	< 0.06
6UMN-outfall	07/14/2021 12:35	07/14/2021 17:35	Rain	Composite									71	< 0.06
6UMN-outfall	07/20/2021 09:30		Base	Grab	77	15.3	957	10.16	7.2	0.59	1174	> 100	321	< 0.06
6UMN-outfall	08/03/2021 08:50		Base	Grab	67	15.1	1026	9.99	7.2	0.64	1266	> 100	333	< 0.06
6UMN-outfall	08/17/2021 09:20		Base	Grab	75	15.4	979	10.08	7.3	0.60	1198	> 100	299	< 0.06
6UMN-outfall	09/07/2021 09:45		Base	Grab	71	17.9	993	9.86	6.9	0.61	1213	> 100		
6UMN-outfall	09/22/2021 10:10		Base	Grab	65	14.5	960	10.09	6.9	0.60	1200	> 100	323	< 0.06
6UMN-outfall	10/05/2021 09:05		Base	Grab		14.4	943	10.19	7.5	0.59	1181	> 100	304	< 0.06
6UMN-outfall	10/19/2021 09:25		Base	Grab	59	12.6	888	10.45	7.1	0.58	1163	68	335	< 0.06
6UMN-outfall	11/02/2021 09:05		Base	Grab	32	9.7	797	12.01	6.5	0.56	1127	> 100	327	< 0.06
6UMN-outfall	11/16/2021 11:05		Base	Grab	36	8.8	793	11.40	7.5	0.57	1149	> 100	316	< 0.06
6UMN-outfall	12/07/2021 11:00		Base	Grab	13	3.9	5467	11.58	8.2	5.08	9164	44	358	0.82
6UMN-outfall	12/17/2021 09:50		Base	Grab	12	3.3	739	12.86	8.4	0.63	1264	55	342	< 0.06

2021 Stormwater Sample Data - 6UMN-outfall continued

Station	Sample Start	Sample End	Carbonaceous 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)	E. coli (MPN/ 100 mL)	Hardness (mg/L CaCO3)	Total Kjeldahl Nitrogen (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)
6UMN-outfall	01/05/2021 11:15		0.8	18	299.0	~ 0.03	0.03	~ 0.04		485	3.40	1.11	< 0.06
6UMN-outfall	01/19/2021 10:15		0.9	< 15	181.0	~ 0.05	0.01	< 0.02		451	0.64	1.01	< 0.06
6UMN-outfall	02/02/2021 10:00		0.9	< 15	187.0	~ 0.05	0.04	0.06		372	0.58	0.92	< 0.06
6UMN-outfall	02/23/2021 12:08	02/24/2021 00:26	> 26.0	253	1610.0	0.27	0.22	0.55		249	4.60	1.05	0.12
6UMN-outfall	02/24/2021 10:55	02/24/2021 20:35	14.0	258	1010.0	0.15	0.11	0.47		169	4.20	0.69	0.13
6UMN-outfall	02/26/2021 12:20	02/26/2021 22:00		58	417.0	0.11		0.28		164	2.10		
6UMN-outfall	03/02/2021 14:40	03/03/2021 00:25	7.7	58	419.0	0.20	0.16	0.33		153	2.40	0.53	0.07
6UMN-outfall	03/03/2021 12:15	03/03/2021 20:30	7.5	58	489.0	0.18	0.14	0.44		175	2.10	0.57	0.07
6UMN-outfall	03/10/2021 11:35	03/10/2021 18:45	9.2	173	182.0	0.19	0.08	0.43		74	2.80	0.56	0.10
6UMN-outfall	03/23/2021 16:04	03/23/2021 21:31		87	93.9	0.09	0.09	0.30		62	1.20	0.50	< 0.06
6UMN-outfall	04/06/2021 09:30		2.1	20	153.0	0.06	0.04	0.12		371	0.50	1.24	< 0.06
6UMN-outfall	05/18/2021 09:10		0.6	< 15	167.0	< 0.02	< 0.01	< 0.02	1	494	0.31	1.10	< 0.06
6UMN-outfall	06/01/2021 10:40		0.9	< 15	183.0	~ 0.03	0.02	~ 0.03		399	0.95	1.08	< 0.06
6UMN-outfall	06/15/2021 09:00		1.6	< 15	166.0	< 0.02	< 0.01	< 0.02	4	383	0.43	1.04	< 0.06
6UMN-outfall	07/08/2021 09:15		0.8	< 15	163.0	0.07	< 0.01	~ 0.04		486	0.09	1.00	< 0.06
6UMN-outfall	07/14/2021 12:35	07/14/2021 17:35	28.0	90	23.9	0.06	0.03	0.31		66	1.60	0.38	0.11
6UMN-outfall	07/20/2021 09:30		1.2	< 15	189.0	< 0.02	< 0.01	~ 0.03		402	0.21	0.97	< 0.06
6UMN-outfall	08/03/2021 08:50			< 15	183.0	< 0.02	0.01	~ 0.04		396	0.38	1.04	< 0.06
6UMN-outfall	08/17/2021 09:20		0.7	< 15	183.0	< 0.02	< 0.01	~ 0.04	61	462	0.41	1.05	< 0.06
6UMN-outfall	09/07/2021 09:45				179.0		0.01	~ 0.03			0.32		
6UMN-outfall	09/22/2021 10:10		0.8	< 15	172.0	< 0.02	0.01	~ 0.04	387	378	0.34	1.02	< 0.06
6UMN-outfall	10/05/2021 09:05		1.0	< 15	167.0	~ 0.03	0.01	~ 0.04		244	0.45	1.15	< 0.06
6UMN-outfall	10/19/2021 09:25		0.9	< 15	177.0	~ 0.04	< 0.01	~ 0.04	72	374	0.25	1.08	< 0.06
6UMN-outfall	11/02/2021 09:05		0.8	< 15	156.0	< 0.02	< 0.01	~ 0.03		249	0.36	1.09	< 0.06
6UMN-outfall	11/16/2021 11:05		0.6	< 15	135.0	< 0.02	0.02	~ 0.02	27	303	0.30	0.95	< 0.06
6UMN-outfall	12/07/2021 11:00		4.6	80	2230.0	0.06	0.04	0.10	31	426	1.30	0.99	< 0.06
6UMN-outfall	12/17/2021 09:50		1.0	< 15	209.0	0.07	0.05	0.08		351	0.44	1.07	< 0.06

2021 Stormwater Sample Data - 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	01/05/2021 11:15		55.7	0.6	< 0.0001	< 0.0005	0.0015	0.0001	0.0051	0.0061	892	2.7	< 1	< 1
6UMN-outfall	01/19/2021 10:15		54.5	0.4							696	1.4	~ 1	< 1
6UMN-outfall	02/02/2021 10:00		54.7	0.5							680	2.0	~ 2	< 1
6UMN-outfall	02/23/2021 12:08	02/24/2021 00:26	38.1	> 26.0							2550	8.3	67	22
6UMN-outfall	02/24/2021 10:55	02/24/2021 20:35	27.7	18.0							1790	6.4	105	31
6UMN-outfall	02/26/2021 12:20	02/26/2021 22:00	22.2								788	7.7	35	16
6UMN-outfall	03/02/2021 14:40	03/03/2021 00:25	20.8	9.6							834	6.8	41	16
6UMN-outfall	03/03/2021 12:15	03/03/2021 20:30	25.4	8.1	0.0001	0.0030	0.0127	0.0061	0.0047	0.0584	957	8.0	41	16
6UMN-outfall	03/10/2021 11:35	03/10/2021 18:45	13.1	14.0							454	7.4	193	83
6UMN-outfall	03/23/2021 16:04	03/23/2021 21:31	9.4								242	7.1	79	30
6UMN-outfall	04/06/2021 09:30		50.2	2.0	< 0.0001	0.0010	0.0029	0.0009	0.0054	0.0157	627	2.7	12	3
6UMN-outfall	05/18/2021 09:10		56.5	0.6							695	1.5	~ 1	~ 1
6UMN-outfall	06/01/2021 10:40		56.8	0.8	< 0.0001	< 0.0010	0.0009	< 0.0005	0.0051	< 0.0050	694	1.4	~ 1	~ 1
6UMN-outfall	06/15/2021 09:00		46.2	1.9							680	2.2	~ 2	~ 1
6UMN-outfall	07/08/2021 09:15		56.2	0.8	< 0.0001	< 0.0010	0.0012	0.0005	0.0047	0.0055	634	1.6	< 1	< 1
6UMN-outfall	07/14/2021 12:35	07/14/2021 17:35	8.5	58.0							135	10.7	133	34
6UMN-outfall	07/20/2021 09:30		55.8	0.5							671	1.8	< 1	< 1
6UMN-outfall	08/03/2021 08:50		54.2	0.5	< 0.0001	< 0.0010	0.0008	< 0.0005	0.0049	< 0.0050	665	1.4	~ 1	~ 1
6UMN-outfall	08/17/2021 09:20		55.6	0.5							671	1.6	~ 2	~ 1
6UMN-outfall	09/07/2021 09:45												~ 1	~ 1
6UMN-outfall	09/22/2021 10:10		55.7	< 0.2							671	1.3	~ 2	~ 1
6UMN-outfall	10/05/2021 09:05		53.3	0.6	< 0.0001	< 0.0010	0.0012	< 0.0005	0.0049	< 0.0050	645	1.5	~ 2	~ 1
6UMN-outfall	10/19/2021 09:25		54.8	0.6							650	1.4	3	~ 1
6UMN-outfall	11/02/2021 09:05		53.9	0.5	< 0.0001	< 0.0010	0.0008	< 0.0005	0.0047	< 0.0050	651	1.3	~ 1	< 1
6UMN-outfall	11/16/2021 11:05		51.2	0.3							615	1.3	< 1	~ 1
6UMN-outfall	12/07/2021 11:00		49.8	5.1							5120	1.0	5	~ 2
6UMN-outfall	12/17/2021 09:50		54.8	0.8	< 0.0001	< 0.0010	0.0010	< 0.0005	0.0046	0.0057	663	1.2	~ 1	< 1