

FIELD DATA - Measurements taken on site, 2016

Minnesota River at Morton - Minnesota River where crossed by MN State Hwy 19 just West of Morton

Non-impacted stream/Western Corn Belt Plains

STORET CODE - S000-145

USGS ID - 05316580

EQuIS ID - E28012001

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1	Conductivity
Ice Covered	1/29/2016		10:20					
Ice Covered	3/2/2016		14:30				64	
Ice Covered	3/7/2016		9:55				36	
Snowmelt	3/11/2016		9:20				17	
Snowmelt	3/22/2016		12:15	6.3	11.97	8.62	32	922
Storm Event	3/31/2016		10:10	8.3	11.23	8.60	28	1011
Base	4/13/2016		9:45	7.5	11.31	8.76	39	1045
Storm Event	4/22/2016		9:25	15.1	9.74	8.41	18	1061
Storm Event	4/27/2016		11:15	12.6	9.94	8.50		1073
Storm Event	4/29/2016		10:00	9.8	10.76	8.52	24	1111
Storm Event	5/2/2016		11:05	12.3	10.29	8.45	19	1248
Storm Event	5/12/2016		10:45	13.8	9.5	8.39	20	1119
Base	5/24/2016		10:00	19.5	9.04	8.32	22	1174
Storm Event	6/2/2016		12:35	20.3	9.55	8.55	18	1157
Base	6/7/2016		9:10	19.0	8.94	8.23	20	1189
Storm Event	6/18/2016		7:50	21.6	7.59	8.24	8	
Storm Event	6/19/2016		6:40	22.7	7.58	8.08	10	
Storm Event	6/21/2016		9:55				13	
Storm Event	7/12/2016		9:40	24.7	7.88	8.57	15	
Storm Event	7/15/2016		10:00	23.0	7.00	8.17	10	941
Storm Event	7/17/2016		12:40	23.9	7.05	7.98	6	
Storm Event	7/18/2016		16:40	24.7	7.1	8.14	6	
Storm Event	7/20/2016		10:55	25.5	6.81	8.03	11	897
Storm Event	7/28/2016		11:00	25.6	7.13	8.15	17	992
Storm Event	8/11/2016		16:30				2	
Storm Event	8/12/2016		10:55	22.8	6.61	8.20	5	424
Storm Event	8/14/2016		10:15	23.4	6.41	8.09	10	498
Storm Event	8/18/2016		10:50	23.9	7.03	8.16	19	770
Storm Event	9/1/2016		10:00	23.0	8.39	8.16	22	
Storm Event	9/7/2016		13:30	21.9	8.01	8.10	16	875
Storm Event	9/25/2016		18:35	18.3	8.41	8.12	10	925
Storm Event	9/26/2016		11:55	17.0	8.66	8.01	12	
Storm Event	10/6/2016		11:35	15.2	9.15	7.91	22	1173
Storm Event	10/8/2016		14:00	12.7	9.63	7.96	21	
Storm Event	10/10/2016		9:25	11.9	9.69	7.93	25	
Base	11/14/2016		10:40	7.6	11.19	8.21	73	1157
Storm Event	11/30/2016		13:30	4.3	11.82	7.82	26	1208
Storm Event	12/5/2016		12:40	3.2	12.44	8.28	38	1228

CHEMICAL DATA - Analytes tested for in a lab, 2016 - MVTL, New Ulm

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SAMP TYPE	DATE	LAB SAMPLE ID #	TIME	TSS MG/L	TSVS MG/L	P-PO4 MG/L	TP MG/L	TURBIDITY NTU	N-	
									NO2+NO3 MG/L	TKN MG/L
Grab	1/29/2016	16-A3216	10:20	4	3	0.082	0.120	3.7	2.82	1.4
Grab	3/2/2016	16-A6427	14:30	15		0.058	0.104		2.92	1
Grab	3/7/2016	16-A6876	9:55	33		0.024	0.148		2.95	1.2
Grab	3/11/2016	16-A7819	9:20	77		0.036	0.189		3.29	1.4
Grab	3/22/2016	16-A9266	12:15	45		0.009	0.114		2.26	1.2
Grab	3/31/2016	16-A10969	10:10	62		0.010	0.140		3.11	1.2
Grab	4/13/2016	16-A13423	9:45	26		0.007	0.078		3.22	1.4
Grab	4/22/2016	16-A15576	9:25	88		0.008	0.153		2.19	1.6
Grab	4/27/2016	16-A16187	11:15	72		0.009	0.141		3.29	1.7
Grab	4/29/2016	16-A16794	10:00	70		0.016	0.143		5.12	1.4
Grab	5/2/2016	16-A16991	11:05	77		0.015	0.143		7.54	1.7
Duplicate	5/2/2016	16-A16996	11:10	48		0.015	0.137		7.55	1.4
Grab	5/12/2016	16-A19535	10:45	83		0.017	0.146		6.67	1.4
Grab	5/24/2016	16-A21565	10:00	86		0.006	0.144		5.17	1.9
Grab	6/2/2016	16-A23366	12:35	83		0.015	0.171		7.33	1.9
Grab	6/7/2016	16-A24843	9:10	66		0.029	0.140		7.39	1.7
Grab	6/18/2016	16-A27690	7:50	304		0.091*	0.372		11.20	2.4
Grab	6/19/2016	16-A27693	6:40	185		0.099	0.363		12.40	2.4
Grab	6/21/2016	16-A28119	9:55	106		0.073	0.247		12.70	1.7
Grab	7/12/2016	16-A33134	9:40	105		0.034	0.195		5.07	1.9
Grab	7/15/2016	16-A34296	10:00	150		0.085	0.261		5.41	2.4
Duplicate	7/15/2016	16-A34297	10:05	157		0.083	0.261		5.41	2.4
Grab	7/17/2016	16-A34581	12:40	233		0.105	0.320		5.45	2
Grab	7/18/2016	16-A35216	16:40	169		0.096	0.324		7.57	2.1
Grab	7/20/2016	16-A35870	10:55	118		0.102	0.233		6.78	1.8
Grab	7/28/2016	16-A37676	11:00	87		0.093	0.235		5.68	2.1
Grab	8/11/2016	16-A40647	16:30	916		0.100	0.620^		1.74	3.8
Grab	8/12/2016	16-A40648	10:55	387		0.113	0.491		2.94	1.9
Grab	8/14/2016	16-A41008	10:15	108		0.163	0.323		4.72	1.9
Grab	8/18/2016	16-A41895	10:50	82		0.136	0.291		4.12	2.2
Grab	9/1/2016	16-A44765	10:00	66		0.087	0.203		5.95	1.9
Field Blank	9/1/2016	16-A44949	10:05	<2		<0.005	<0.005		<0.05	<0.2
Grab	9/7/2016	16-A45957	13:30	98		0.111	0.296		7.58	2.3
Grab	9/25/2016	16-A51094	18:35	158		0.129	0.330		9.26	2
Grab	9/26/2016	16-A51097	11:55	114		0.132	0.276		10.90	1.9
Grab	10/6/2016	16-A53825	11:35	70		0.055	0.158		9.69	1.8
Grab	10/8/2016	16-A54288	14:00	62		*0.095	0.192		12.00	1.6
Grab	10/10/2016	16-A54289	9:25	46		0.091	0.160		12.70	1.2
Grab	11/14/2016	16-A61670	10:40	13		0.032	0.064		6.35	1.6
Grab	11/30/2016	16-A63904	13:30	68		0.073	0.148		12.30	1.7
Grab	12/5/2016	16-A64415	12:40	35		0.052	0.124		10.60	1.6

* = Holding Time Exceeded

^ = sample diluted due to result above calibration of linear range