

CHEMICAL DATA - Analytes tested for in a lab, 2018 - MVTL, New Ulm**PLC001 - Primary Lower Cottonwood River near New Ulm - Non-impacted stream/Western Corn Belt Plains****STORET CODE - S001-918 2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)**

Program	DATE	FLOW (ft ³ /sec)	TIME	SAMP TYPE	LAB SAMPLE ID #	TSS MG/L	TP MG/L	Chlorophyl-a MG/L	Pheophytin MG/L	E COLI /100ML
SWAG	6/8/2018		14:00	Grab	18-A28479		0.630^	22.7	1.13	3448.0
SWAG	6/25/2018		14:00	Grab	18-A31691		0.368	5.6	<1	1553.1
SWAG	7/9/2018		14:55	Grab	18-A34493		0.364	10.3	<1	19.5
SWAG	7/30/2018		15:30	Grab	18-A39427		0.249	12.5	1.02	110.0
SWAG	8/9/2018		13:50	Grab	18-A41567		0.289	2.6	<1	538.0
SWAG	8/23/2018		14:25	Grab	18-A44216		0.092	105.0	<1	85.0
SWAG	9/10/2018		13:15	Grab	18-A46931		0.153	25.0	<1	

CHEMICAL DATA - Analytes tested for in a lab, 2018 - MVTL, New Ulm**JD301 - JD30 @ 260th Ave., 1 mi SE of Sleepy Eye****STORET CODE - S009-438 2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)**

Program	DATE	FLOW (ft ³ /sec)	TIME	SAMP TYPE	LAB SAMPLE ID #	TSS MG/L	TP MG/L	Chlorophyl-a MG/L	Pheophytin MG/L	E COLI /100ML
SWAG	6/8/2018		13:15	Grab	18-A28478					19863.0
GAP	6/8/2018		13:15	Grab	18-A28480	657	0.880^	11.1	1.33	
SWAG	6/25/2018		13:25	Grab	18-A31690					>2419.6
GAP	6/25/2018		13:25	Grab	18-A31692	84				
SWAG	7/9/2018		14:10	Grab	18-A34492					172.2
GAP	7/9/2018		14:10	Grab	18-A34494	58	0.240	5.7	<1	
SWAG	7/30/2018		14:40	Grab	18-A39426					246.0
GAP	7/30/2018		14:40	Grab	18-A39428	4				
SWAG	8/9/2018		13:15	Grab	18-A41566					1178.0
GAP	8/9/2018		13:15	Grab	18-A41569	3	0.098	28.0	<1	
SWAG	8/23/2018		13:45	Grab	18-A44215					355.0
GAP	8/23/2018		13:45	Grab	18-A44217	5				
GAP	9/10/2018		12:35	Grab	18-A46932	6	0.071	6.5	<1	

CHEMICAL DATA - Analytes tested for in a lab, 2018 - MVTL, New Ulm**PLS005 - Primary Lower Sleepy Eye Creek near Cobden - Non-impacted stream/Western Corn Belt Plains****STORET CODE - S001-919 2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)**

Program	DATE	FLOW (ft ³ /sec)	TIME	SAMP TYPE	LAB SAMPLE ID #	TSS MG/L	TP MG/L	Chlorophyl-a MG/L	Pheophytin MG/L	E COLI /100ML
SWAG	6/8/2018		12:30	Grab	18-A28477					14136.0
SWAG	6/25/2018		12:45	Grab	18-A31688					816.4
SWAG	7/9/2018		13:35	Grab	18-A34491					29.5
SWAG	7/30/2018		13:40	Grab	18-A39425					160.0
SWAG	8/9/2018		12:35	Grab	18-A41565					241.0
SWAG	8/23/2018		13:15	Grab	18-A44214					262.0

CHEMICAL DATA - Analytes tested for in a lab, 2018 - MVTL, New Ulm**PLC010 - Primary Lower Cottonwood River near Leavenworth - Non-impacted stream/Western Corn Belt Plains****STORET CODE - S001-920 2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)**

Program	DATE	FLOW (ft ³ /sec)	TIME	SAMP TYPE	LAB SAMPLE ID #	TSS MG/L	TP MG/L	Chlorophyl-a MG/L	Pheophytin MG/L	E COLI /100ML
SWAG	6/8/2018		12:05	Grab	18-A28476		0.337	26.6	4.43	14136.0
SWAG	6/25/2018		12:25	Grab	18-A31687		0.242	5.9	<1	214.3
SWAG	7/9/2018		13:05	Grab	18-A34490		0.253	19.3	1.36	24.3
SWAG	7/30/2018		13:10	Grab	18-A39424		0.236	11.3	<1	185.0
SWAG	8/9/2018		12:15	Grab	18-A41564		0.301	13.9	<1	1183.0
SWAG	8/23/2018		12:50	Grab	18-A44213		0.117	38.4	<1	253.0
SWAG	9/10/2018		12:00	Grab	18-A46930		0.168	24.6	<1	

CHEMICAL DATA - Analytes tested for in a lab, 2018 - MVTL, New Ulm

CMC001 - Coal Mine Creek@180th St. W, 2 mi SW of Springfield

STORET CODE - S009-439 2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)

Program	DATE	FLOW (ft³/sec)	TIME	SAMP TYPE	LAB SAMPLE ID #	TSS MG/L	TP MG/L	Chlorophyl-a MG/L	Pheophytin MG/L	E COLI /100ML
SWAG	6/7/2018		14:10	Grab	18-A28101					723.0
SWAG	6/28/2018		12:50	Grab	18-A32930					97.0
SWAG	7/11/2018		13:45	Grab	18-A35176					148.0
SWAG	7/27/2018		12:55	Grab	18-A39205					189.0
SWAG	8/13/2018		13:35	Grab	18-A42055					2481.0
SWAG	8/27/2018		12:55	Grab	18-A44423					1904.0

CHEMICAL DATA - Analytes tested for in a lab, 2018 - MVTL, New Ulm

MC010 - Mound Creek@Upstream of CSAH 2, 5 mi. SW of Springfield

STORET CODE - S005-690 2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)

Program	DATE	FLOW (ft³/sec)	TIME	SAMP TYPE	LAB SAMPLE ID #	TSS MG/L	TP MG/L	Chlorophyl-a MG/L	Pheophytin MG/L	E COLI /100ML
SWAG	6/7/2018		13:45	Grab	18-A28100					733.0
SWAG	6/28/2018		12:25	Grab	18-A32929					530.0
SWAG	7/11/2018		13:20	Grab	18-A35175					959.0
SWAG	7/27/2018		12:35	Grab	18-A39204					633.0
SWAG	8/13/2018		13:15	Grab	18-A42054					295.0
SWAG	8/27/2018		12:35	Grab	18-A44422					399.0

CHEMICAL DATA - Analytes tested for in a lab, 2018 - MVTL, New Ulm**DC010 - Dry Creek@ CR 41/100th st., 1 mi SW of Sanborn****STORET CODE - S009-442 2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)**

Program	DATE	FLOW (ft³/sec)	TIME	SAMP TYPE	LAB SAMPLE ID #	TSS MG/L	TP MG/L	Chlorophyl-a MG/L	Pheophytin MG/L	E COLI /100ML
SWAG	6/7/2018		13:20	Grab	18-A28099					3873.0
GAP	6/7/2018		13:20	Grab	18-A28106	15	0.067	<1	9.06	
SWAG	6/28/2018		12:05	Grab	18-A32928					512.0
GAP	6/28/2018		12:05	Grab	18-A32918	81				
SWAG	7/11/2018		12:55	Grab	18-A35174					988.0
GAP	7/11/2018		12:55	Grab	18-A35181	58	0.205	4.5	<1	
SWAG	7/27/2018		12:15	Grab	18-A39203					727.0
GAP	7/27/2018		12:15	Grab	18-A39196	28				
SWAG	8/13/2018		12:50	Grab	18-A42053					714.0
GAP	8/13/2018		12:50	Grab	18-A42060	6	0.082	7.8	<1	
SWAG	8/27/2018		12:15	Grab	18-A44421					620.0
GAP	8/27/2018		12:15	Grab	18-A44414	<2				
GAP	9/13/2018		12:40	Grab	18-A47921	4	0.060	2.9	<1	

CHEMICAL DATA - Analytes tested for in a lab, 2018 - MVTL, New Ulm**HWC001 - Highwater Creek@ TWP Rd 98, 1 mi SE of Lambertton****STORET CODE - S009-443 2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)**

Program	DATE	FLOW (ft³/sec)	TIME	SAMP TYPE	LAB SAMPLE ID #	TSS MG/L	TP MG/L	Chlorophyl-a MG/L	Pheophytin MG/L	E COLI /100ML
SWAG	6/7/2018		12:55	Grab	18-A28098					738.0
GAP	6/7/2018		12:55	Grab	18-A28105	49	0.134	18.6	2.85	
SWAG	6/28/2018		11:45	Grab	18-A32927					495.0
GAP	6/28/2018		11:45	Grab	18-A32917	145				
SWAG	7/11/2018		12:30	Grab	18-A35173					359.0
GAP	7/11/2018		12:30	Grab	18-A35180	97	0.262	6.8	3.52	
SWAG	7/27/2018		11:55	Grab	18-A39202					833.0
GAP	7/27/2018		11:55	Grab	18-A39195	65				
SWAG	8/13/2018		12:30	Grab	18-A42052					420.0
GAP	8/13/2018		12:30	Grab	18-A42059	54	0.168	37.7	<1	
SWAG	8/27/2018		11:55	Grab	18-A44420					512.0
GAP	8/27/2018		11:55	Grab	18-A44413	4				
GAP	9/13/2018		12:15	Grab	18-A47920	16	0.119	12.3	<1	

CHEMICAL DATA - Analytes tested for in a lab, 2018 - MVTL, New Ulm**DCC015 - Dutch Charlie Creek@ CSAH 15, 2 mi SE of Lambertton****STORET CODE - S001-915 2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)**

Program	DATE	FLOW (ft ³ /sec)	TIME	SAMP TYPE	LAB SAMPLE ID #	TSS MG/L	TP MG/L	Chlorophyl-a MG/L	Pheophytin MG/L	E COLI /100ML
SWAG	6/7/2018		12:30	Grab	18-A28097		0.152	21.6	2.27	598.0
GAP	6/7/2018		12:30	Grab	18-A28104	69				
SWAG	6/28/2018		11:20	Grab	18-A32926		0.270	7.1	<1	364.0
GAP	6/28/2018		11:20	Grab	18-A32916	150				
SWAG	7/11/2018		12:05	Grab	18-A35172		0.284	6.9	<1	323.0
GAP	7/11/2018		12:05	Grab	18-A35179	122				
SWAG	7/27/2018		11:30	Grab	18-A39201		0.228	12.6	<1	496.0
GAP	7/27/2018		11:30	Grab	18-A39194	74				
SWAG	8/13/2018		12:05	Grab	18-A42051		0.184	19.0	<1	504.0
GAP	8/13/2018		12:05	Grab	18-A42058	50				
SWAG	8/27/2018		11:30	Grab	18-A44419		0.103	18.2	<1	408.0
GAP	8/27/2018		11:30	Grab	18-A44412	7				
SWAG	9/13/2018		11:55	Grab	18-A47916		0.114	9.1	<1	
GAP	9/13/2018		11:55	Grab	18-A47919	16				

CHEMICAL DATA - Analytes tested for in a lab, 2018 - MVTL, New Ulm**PMC020 - Cottonwood River@ US Hwy 14, 2 mi E of Lambertton****STORET CODE - S002-247 2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)**

Program	DATE	FLOW (ft ³ /sec)	TIME	SAMP TYPE	LAB SAMPLE ID #	TSS MG/L	TP MG/L	Chlorophyl-a MG/L	Pheophytin MG/L	E COLI /100ML
SWAG	6/7/2018		12:05	Grab	18-A28096		0.134	20.2	3.36	120.0
SWAG	6/28/2018		11:00	Grab	18-A32925		0.142	16.3	<1	246.0
SWAG	7/11/2018		11:40	Grab	18-A35171		0.211	17.2	2.87	75.0
SWAG	7/27/2018		11:15	Grab	18-A39200		0.294	7.9	5.56	134.0
SWAG	8/13/2018		11:45	Grab	18-A42050		0.172	53.4	<1	226.0
SWAG	8/27/2018		11:05	Grab	18-A44418		0.121	32.0	4.59	146.0
SWAG	9/13/2018		11:35	Dup	18-A47915		0.115	21.9	2.95	

CHEMICAL DATA - Analytes tested for in a lab, 2018 - MVTL, New Ulm**PEC001 - Pell Creek@ TWP Rd 142, 4 mi NW of Lambertton****STORET CODE - S009-444 2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)**

Program	DATE	FLOW (ft ³ /sec)	TIME	SAMP TYPE	LAB SAMPLE ID #	TSS MG/L	TP MG/L	Chlorophyl-a MG/L	Pheophytin MG/L	E COLI /100ML
SWAG	6/7/2018		11:35	Grab	18-A28095					529.0
GAP	6/7/2018		11:35	Grab	18-A28103	18	0.067	10.6	<1	
SWAG	6/28/2018		10:40	Grab	18-A32924					420.0
GAP	6/28/2018		10:40	Grab	18-A32915	83				
SWAG	7/11/2018		11:15	Grab	18-A35170					496.0
GAP	7/11/2018		11:15	Grab	18-A35178	45	0.166	3.4	<1	
SWAG	7/27/2018		10:55	Grab	18-A39199					565.0
GAP	7/27/2018		10:55	Grab	18-A39193	23				
SWAG	8/13/2018		11:20	Grab	18-A42049					1169.0
GAP	8/13/2018		11:20	Grab	18-A42057	13	0.089	2.0	<1	
SWAG	8/27/2018		10:45	Grab	18-A44417					122.0
GAP	8/27/2018		10:45	Grab	18-A44411	<2				
GAP	9/13/2018		11:05	Grab	18-A47918	4	0.047	3.6	<1	

CHEMICAL DATA - Analytes tested for in a lab, 2018 - MVTL, New Ulm**TUP - Plum Creek@ CSAH 10, 4.75 mi NE of Walnut Grove****STORET CODE - S001-913 2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)**

Program	DATE	FLOW (ft ³ /sec)	TIME	SAMP TYPE	LAB SAMPLE ID #	TSS MG/L	TP MG/L	Chlorophyl-a MG/L	Pheophytin MG/L	E COLI /100ML
SWAG	6/7/2018		11:10	Grab	18-A28094					275.0
SWAG	6/28/2018		10:15	Grab	18-A32923					285.0
SWAG	7/11/2018		10:55	Grab	18-A35169					350.0
SWAG	7/27/2018		10:30	Grab	18-A39198					336.0
SWAG	8/13/2018		10:55	Grab	18-A42048					1187.0
SWAG	8/27/2018		10:20	Grab	18-A44416					504.0

CHEMICAL DATA - Analytes tested for in a lab, 2018 - MVTL, New Ulm**LTC001 - Lone Tree Creek@ CR 5, 5 mi N of Walnut Grove****STORET CODE - S001-914 2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)**

Program	DATE	FLOW (ft³/sec)	TIME	SAMP TYPE	LAB SAMPLE ID #	TSS MG/L	TP MG/L	Chlorophyl-a MG/L	Pheophytin MG/L	E COLI /100ML
SWAG	6/7/2018		10:45	Grab	18-A28093					512.0
GAP	6/7/2018		10:45	Grab	18-A28102	10	0.028	9.5	2.14	
SWAG	6/28/2018		9:50	Grab	18-A32919					728.0
GAP	6/28/2018		9:50	Grab	18-A32914	99				
SWAG	7/11/2018		10:20	Grab	18-A35168					556.0
GAP	7/11/2018		10:20	Grab	18-A35177	63	0.254	4.6	<1	
SWAG	7/27/2018		10:05	Grab	18-A39197					408.0
GAP	7/27/2018		10:05	Grab	18-A39192	13				
SWAG	8/13/2018		10:30	Grab	18-A42047					471.0
GAP	8/13/2018		10:30	Dup	18-A42056	15	0.069	7.6	<1	
SWAG	8/27/2018		10:00	Grab	18-A44415					465.0
GAP	8/27/2018		10:00	Dup	18-A44410	4				
GAP	9/13/2018		10:30	Grab	18-A47917	9	0.045	3.0	<1	

CHEMICAL DATA - Analytes tested for in a lab, 2018 - MVTL, New Ulm**PMS050 - Sleepy Eye Creek@ Laser Ave., 4 mi NE of Wanda****STORET CODE - S009-441 2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)**

Program	DATE	FLOW (ft³/sec)	TIME	SAMP TYPE	LAB SAMPLE ID #	TSS MG/L	TP MG/L	Chlorophyl-a MG/L	Pheophytin MG/L	E COLI /100ML
SWAG	6/12/2018		14:15	Grab	18-A29045					5475.0
GAP	6/12/2018		14:15	Grab	18-A29051	64	0.223	4.7	1.06	
SWAG	6/26/2018		14:05	Grab	18-A31999					2014.0
GAP	6/26/2018		14:05	Grab	18-A31991	54				
SWAG	7/12/2018		14:00	Grab	18-A35606					189.0
GAP	7/12/2018		14:00	Grab	18-A35612	34	0.309	4.6	<1	
SWAG	7/24/2018		13:40	Grab	18-A37861					98.0
GAP	7/24/2018		13:40	Grab	18-A37853	41				
SWAG	8/14/2018		13:55	Grab	18-A42336					134.0
GAP	8/14/2018		13:55	Grab	18-A42342	36	0.402	15.9	1.78	
SWAG	8/29/2018		13:35	Grab	18-A45079					389.0
GAP	8/29/2018		13:35	Grab	18-A45085	19				
GAP	9/11/2018		14:00	Grab	18-A47285	24	0.081	4.5	<1	

CHEMICAL DATA - Analytes tested for in a lab, 2018 - MVTL, New Ulm**MDC001 - Mound Creek@CSAH11 Bridge, 8 mi N of Tracy****STORET CODE - S001-917 2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)**

Program	DATE	FLOW TIME (ft³/sec)	SAMP TYPE	LAB SAMPLE ID #	TSS MG/L	TP MG/L	Chlorophyl-a MG/L	Pheophytin MG/L	E COLI /100ML
SWAG	6/12/2018		13:35	Grab	18-A29044				712.0
GAP	6/12/2018		13:35	Grab	18-A29050	60	0.172	7.1	4.51
SWAG	6/26/2018		13:25	Grab	18-A31998				733.0
GAP	6/26/2018		13:25	Grab	18-A31990	32			
SWAG	7/12/2018		13:15	Grab	18-A35605				420.0
GAP	7/12/2018		13:15	Grab	18-A35611	35	0.253	16.1	<1
SWAG	7/24/2018		13:00	Grab	18-A37860				301.0
GAP	7/24/2018		13:00	Grab	18-A37852	56			
SWAG	8/14/2018		13:10	Grab	18-A42335				197.0
GAP	8/14/2018		13:10	Grab	18-A42341	10	0.163	23.5	<1
SWAG	8/29/2018		12:55	Grab	18-A45078				708.0
GAP	8/29/2018		12:55	Grab	18-A45084	22			
GAP	9/11/2018		13:15	Grab	18-A47284	21	0.125	3.8	1.51

CHEMICAL DATA - Analytes tested for in a lab, 2018 - MVTL, New Ulm

PUC001 - Cottonwood River@CR11, 4 mi NE of Amiret

STORET CODE - S009-440 2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)

Program	DATE	FLOW (ft ³ /sec)	TIME	SAMP TYPE	LAB SAMPLE ID #	TSS MG/L	TP MG/L	Chlorophyl-a MG/L	Pheophytin MG/L	E COLI /100ML
SWAG	6/12/2018		13:15	Grab	18-A29043		0.223	4.7	1.88	908.0
GAP	6/12/2018		13:15	Grab	18-A29049	81				
SWAG	6/26/2018		13:05	Grab	18-A31997		0.290	4.8	1.07	2909.0
GAP	6/26/2018		13:05	Grab	18-A31989	100				
SWAG	7/12/2018		13:00	Grab	18-A35604		0.358	3.5	<1	213.0
GAP	7/12/2018		13:00	Grab	18-A35610	115				
SWAG	7/24/2018		12:40	Grab	18-A37859		0.303	2.3	<1	199.0
GAP	7/24/2018		12:40	Grab	18-A37851	104				
SWAG	8/14/2018		12:50	Grab	18-A42334		0.152	10.0	<1	537.0
GAP	8/14/2018		12:50	Grab	18-A42340	29				
SWAG	8/29/2018		12:35	Grab	18-A45077		0.154	9.5	2.14	404.0
GAP	8/29/2018		12:35	Grab	18-A45083	51				
SWAG	9/11/2018		12:55	Grab	18-A47279		0.100	15.3	<1	
GAP	9/11/2018		12:55	Grab	18-A47283	18				

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

* = Holding time exceeded