

**CHEMICAL DATA - Analytes tested for in a lab, 2022 - MVTL, New Ulm**

**PLC001 - Primary Lower Cottonwood River near New Ulm - Non-impacted stream/Western Corn Belt Plains**

**STORET CODE - S001-918**

**2022 Wateryear (Oct 1, 2021 to Sept. 30, 2022)**

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft <sup>3</sup> /sec)	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	N-NO2+NO3 MG/L	P-PO4 MG/L	TP MG/L
Winter	Grab	1/13/2022	13:35		22-A1500	6		1.1	5.74	0.050	0.046
Winter	Grab	2/28/2022	13:35		22-A8571	4		1.2	2.58	0.056	0.070
Snowmelt	Grab	3/17/2022	14:15		22-A11252	63		2.4	1.40	0.245@	0.364
Snowmelt	Grab	3/21/2022	11:30		22-A11911	134		1.8	1.33	0.196@	0.371
Snowmelt	Grab	3/24/2022	14:05		22-A12652	314		3.7	7.82	0.340^	0.817^
Snowmelt	Grab	3/28/2022	15:10		22-A13086	141		3.0	7.43	0.190	0.378^
Storm Event	Grab	4/8/2022	13:05		22-A15272	43		2.1	8.81	0.113	0.236
Storm Event	Grab	4/11/2022	13:45		22-A15423	56		1.4	7.44	0.064	0.167
Base	Grab	4/28/2022	15:15		22-A19338	34		2.6	7.16	0.008	0.086
Storm Event	Grab	5/1/2022	17:10		22-A19704	827		4.6	10.20	0.053	0.730^
Storm Event	Grab	5/2/2022	15:40		22-A19708	565		3.2	12.00	0.048	0.510^
Storm Event	Grab	5/6/2022	12:50		22-A20846	167		1.8	10.00	0.052	0.217
Storm Event	Grab	5/12/2022	15:40		22-A22924	253		2.6	8.47	0.070	0.328
Storm Event	Grab	5/13/2022	16:05		22-A23210	130		2.9	10.30	0.067*	0.350@
Storm Event	Grab	5/15/2022	15:10		22-A23612	418		2.7	8.56	0.083*	0.470@
Storm Event	Grab	5/16/2022	16:05		22-A23562	295		2.9	7.36	0.073	0.390@
Storm Event	Grab	5/20/2022	12:00		22-A24863	109		2.6	8.41	0.050	0.202
Base	Grab	6/2/2022	15:20		22-A27216	125		1.9	10.80	0.049	0.203
Base	Grab	6/14/2022	14:15		22-A29688	74		1.7	9.01	0.047	0.130
Storm Event	Grab	7/8/2022	13:30		22-A34377	278		2.6	7.09	0.102	0.483
Storm Event	Grab	7/11/2022	14:10		22-A34556	192		2.1	9.55	0.115	0.300
Base	Grab	8/4/2022	13:40		22-A40473	10		0.5	0.14	<0.005	0.028
Base	Grab	9/22/2022	15:05		22-A49540	25		1.0	0.20	0.014	0.056
Base	Grab	10/20/2022	14:35		22-A53508	<2		0.5	0.68	0.007	0.015
Base	Grab	11/14/2022	15:05		22-A56221	7		1.0	0.43	0.006	0.017
Winter	Grab	12/28/2022	13:45		22-A59847	<2		0.6	1.23	0.007	0.015

^ Sample Diluted due to result above calibration of linear range

\* Sample Exceeded Holding Time

\_@ Reporting limit elevated due to sample matrix

**CHEMICAL DATA - Analytes tested for in a lab, 2022- MVTL, New Ulm**

**PLS005 - Primary Lower Sleepy Eye Creek near Cobden - Non-impacted stream/Western Corn Belt Plains**

**STORET CODE - S001-919 2022 Wateryear (Oct 1, 2021 to Sept. 30, 2022)**

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft <sup>3</sup> /sec)	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	N-NO2+NO3 MG/L	P-PO4 MG/L	TP MG/L
Snowmelt	Grab	3/24/2022	13:15		22-A12651	49		4.0	14.90		1.06^
Snowmelt	Grab	3/28/2022	14:15		22-A13085	8		2.6	9.41		0.313^
Storm Event	Grab	4/8/2022	12:05		22-A15271	11		1.9	15.00		0.253
Storm Event	Grab	4/11/2022	12:45		22-A15422	6		1.4	11.60		0.122
Base	Grab	4/28/2022	14:10		22-A19337	3		3.0	11.00		0.040
Storm Event	Grab	4/30/2022	13:50		22-A19698	35		1.7	11.50		0.079
Storm Event	Grab	5/1/2022	16:15		22-A19703	63		2.2	14.80		0.152
Storm Event	Grab	5/6/2022	12:00		22-A20845	20		1.2	13.10		0.056
Storm Event	Grab	5/12/2022	14:35		22-A22923	163		2.8	12.80		0.290
Storm Event	Grab	5/13/2022	14:55		22-A23209	138		2.7	15.90		0.270@
Storm Event	Grab	5/15/2022	14:10		22-A23561	31		1.7	15.70		0.110
Storm Event	Grab	5/23/2022	13:00		22-A25010	6		1.4	14.20		0.047
Base	Grab	6/14/2022	12:55		22-A29687	28		1.4	11.40		0.108
Storm Event	Grab	7/8/2022	12:30		22-A34376	82		1.5	7.04		0.291
Storm Event	Grab	7/11/2022	13:00		22-A34555	23		1.3	9.52		0.177
Base	Grab	10/3/2022	13:30		22-A50791	8		0.9	0.05		0.041

^ Sample Diluted due to result above calibration of linear range

\_@ Reporting limit elevated due to sample matrix

**CHEMICAL DATA - Analytes tested for in a lab, 2022 - MVTL, New Ulm**

**PLC010 - Primary Lower Cottonwood River near Leavenworth - Non-impacted stream/Western Corn Belt Plains**

**STORET CODE - S001-920**

**2022 Wateryear (Oct 1, 2021 to Sept. 30, 2022)**

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft <sup>3</sup> /sec)	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	N-NO2+NO3 MG/L	P-PO4 MG/L	TP MG/L
Snowmelt	Grab	3/24/2022	12:50		22-A12650	52		2.6	3.93		0.429
Snowmelt	Grab	3/28/2022	13:50		22-A13084	84		3.0	7.15		0.318^
Storm Event	Grab	4/8/2022	11:30		22-A15270	60		1.8	5.86		0.185
Storm Event	Grab	4/11/2022	12:20		22-A15421	35		1.4	5.52		0.156
Base	Grab	4/28/2022	13:45		22-A19336	27		1.3	5.66		0.082
Storm Event	Grab	4/30/2022	13:30		22-A19697	212		2.0	5.96		0.249
Storm Event	Dup	4/30/2022	13:35		22-A19699	217		2.3	5.96		0.220@
Storm Event	Grab	5/1/2022	15:55		22-A19702	440		3.9	10.40		0.470@
Storm Event	Grab	5/2/2022	14:35		22-A19707	293		3.0	11.40		0.370@
Storm Event	Grab	5/6/2022	11:20		22-A20844	142		1.9	8.91		0.201
Storm Event	Grab	5/12/2022	14:05		22-A22922	203		2.6	7.67		0.323
Storm Event	Grab	5/13/2022	14:30		22-A23208	122		3.4	8.23		0.450@
Storm Event	Grab	5/15/2022	13:40		22-A23560	226*		2.6	6.36		0.357
Storm Event	Grab	5/16/2022	15:10		22-A23613	145		2.1	6.60	0.091	0.268
Storm Event	Grab	5/20/2022	11:00		22-A24862	87		2.6	6.87		0.180
Storm Event	Grab	5/31/2022	14:35		22-A26603	116		1.5	7.83		0.191
Storm Event	Grab	6/2/2022	14:20		22-A27215	137		2.1	9.96		0.234
Base	Grab	6/14/2022	12:25		22-A29686	92		1.7	8.39		0.155
Storm Event	Grab	7/7/2022	6:25		22-A34374	443		3.8	6.17		0.690^
Storm Event	Grab	7/8/2022	12:05		22-A34375	255		2.5	9.50		0.399
Storm Event	Grab	7/11/2022	12:35		22-A34554	169		1.8	9.47		0.284
Base	Grab	8/4/2022	12:30		22-A40472	31		0.9	<0.05		0.080
Base	Grab	9/22/2022	13:50		22-A49539	28		0.9	0.36		0.064
Base	Grab	10/20/2022	13:25		22-A53507	2		0.7	0.39		0.027

^ Sample Diluted due to result above calibration of linear range

\* Sample Exceeded Holding Time

\_@ Reporting limit elevated due to sample matrix