

CHEMICAL DATA - Analytes tested for in a lab, 2023 - MVTL, New Ulm

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

STORET CODE - S001-918

2023 Wateryear (Oct 1, 2022 to Sept. 30, 2023)

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft ³ /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
Base	Grab	1/23/2023	13:50		23-A1987	6		0.490	1.36	0.008	0.016
Base	Grab	2/27/2023	14:15		23-A4569	15		0.830	1.33	0.023	0.042
Base	Grab	3/24/2023	14:20		10424002	9		0.574	1.35	0.018	0.056
Snowmelt	Grab	4/7/2023	13:05		11606001	168		1.480	3.80	0.240	0.496
Snowmelt	Grab	4/10/2023	14:25		12010004	480		1.350	4.44	0.179	0.710
Snowmelt	Dup	4/10/2023	14:30		12010005	507		1.600	4.39	0.173	0.760
Snowmelt	Grab	4/12/2023	13:50		12274005	585		1.510	4.59	0.213	0.680
Snowmelt	Grab	4/14/2023	13:10		12582003	335		1.580	3.83	0.242	0.620
Snowmelt	Grab	4/17/2023	14:30		12692005	152		1.060	4.14	0.240	0.402
Rain Event	Grab	4/21/2023	13:15		13289005	210		0.773	9.16	0.240	0.550
Rain Event	Grab	4/22/2023	14:00		13407002	213		0.610	9.79	0.190*	0.420
Rain Event	Grab	4/24/2023	15:15		13407006	115		0.151	8.88	0.130	0.220
Base	Grab	5/1/2023	14:10		14038004	57		0.410	6.72	0.053	0.151
Rain Event	Grab	5/11/2023	14:05		15351004	940		1.090	4.92	0.123	0.880
Rain Event	Grab	5/12/2023	15:05		15480004	395		0.905	8.03	0.262	0.740
Rain Event	Grab	5/14/2023	12:10		15544004	910		0.859	6.38	0.260	1.020
Rain Event	Grab	5/15/2023	13:35		15547004	690		1.270	6.37	0.250	0.800
Rain Event	Grab	5/16/2023	14:55		15729005	687		0.871	7.86	0.200	0.610
Rain Event	Grab	5/19/2023	13:15		16154005	302		1.490	7.61	0.179	0.440
Base	Grab	6/5/2023	12:20		17273001	62		0.849	8.57	0.042	0.150
Base	Grab	6/23/2023	14:10		19179005	89		0.781	6.69	0.005	0.117
Base	Grab	7/24/2023	14:30		21713004	37		0.944	0.18	<0.005	0.043
Base	Grab	8/25/2023	13:45		25890003	34		1.360	<0.05	0.008	0.097
Rain Event	Grab	10/13/2023	14:00		31131005	53		0.620	0.63	0.011	0.093
Rain Event	Grab	10/16/2023	13:55		31224005	17		0.621	1.10	0.018	0.051
Rain Event	Grab	10/27/2023	13:20		32423004	24		0.992	0.33	<0.005	0.097
Rain Event	Grab	10/31/2023	13:35		32631005	5		0.720	1.10	0.010	0.049
Base	Grab	11/13/2023	14:15		33761003	6		0.553	0.77	0.005	0.019
Base	Grab	12/7/2023	14:40		36151003	3		0.420	1.31	<0.005	0.012

* Sample Exceeded Holding Time

CHEMICAL DATA - Analytes tested for in a lab, 2023- MVTL, New Ulm

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

STORET CODE - S001-919 2023 Wateryear (Oct 1, 2022 to Sept. 30, 2023)

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft ³ /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	4/10/2023	13:25		12010003	84		2.03	4.37		0.630
Snowmelt	Grab	4/12/2023	13:00		12274004	183		1.95	4.62		0.690
Snowmelt	Dup	4/12/2023	13:05		12274006	181		1.78	4.61		0.690
Snowmelt	Grab	4/13/2023	14:20		12503004	320		1.59	3.60		0.700
Snowmelt	Grab	4/17/2023	13:25		12692004	46		1.43	7.67		0.392
Rain Event	Grab	4/20/2023	13:55		13289001	207		0.968	9.94		0.550
Rain Event	Grab	4/21/2023	12:15		13289004	68		0.937	13.68		0.420
Rain Event	Grab	4/24/2023	14:20		13407005	19		<0.1	13.75		0.172
Base	Grab	5/1/2023	13:10		14038003	11		<0.1	11.75		0.120
Rain Event	Grab	5/11/2023	12:55		15351003	855		1.13	7.42		1.040
Rain Event	Grab	5/12/2023	14:00		15480003	113		0.826	10.49		0.570
Rain Event	Grab	5/14/2023	10:43		15544003	223		0.803	6.04		0.610
Rain Event	Grab	5/15/2023	8:14		15547003	95		0.759	8.27		0.470
Rain Event	Grab	5/19/2023	12:20		16154004	75		1.57	10.31		0.440
Base	Grab	5/30/2023	13:15		16871004	22		0.243	12.74		0.136
Base	Grab	6/23/2023	13:15		19179004	22		0.164	9.57		0.098
Base	Grab	7/24/2023	13:05		21713003	6		0.451	0.28		0.090
Rain Event	Grab	10/13/2023	13:10		31131004	6		0.491	0.06		0.058
Rain Event	Grab	10/16/2023	12:50		31224004	8		0.737	0.48		0.098
Rain Event	Grab	10/26/2023	13:35		32423002	6		0.636	0.74		0.087
Rain Event	Grab	10/31/2023	12:45		32631004	3		0.751	3.88		0.138

^ 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, 2023 - MVTL, New Ulm

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

STORET CODE - S001-920

2023 Wateryear (Oct 1, 2022 to Sept. 30, 2023)

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft ³ /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	4/10/2023	12:55		12010002	293		1.55	4.34		0.530
Snowmelt	Grab	4/12/2023	12:35		12274003	220		1.46	4.32		0.469
Snowmelt	Grab	4/13/2023	13:50		12503003	152		1.14	4.03		0.414
Snowmelt	Grab	4/17/2023	12:55		12692003	102		0.928	3.51		0.342
Rain Event	Grab	4/21/2023	12:00		13289003	134		1.84	6.89		0.460
Rain Event	Grab	4/22/2023	13:05		13407001	127		0.948	9.77		0.270
Rain Event	Grab	4/24/2023	13:55		13407004	88		0.753	7.14		0.200
Base	Grab	5/1/2023	12:45		14038002	48		0.575	5.27		0.139
Rain Event	Grab	5/11/2023	12:30		15351002	490		1.39	4.85		0.690
Rain Event	Grab	5/12/2023	13:35		15480002	210		1.14	5.78		0.500
Rain Event	Grab	5/14/2023	11:17		15544002	243		1.11	4.14		0.500
Rain Event	Grab	5/15/2023	8:40		15547002	215		1.38	5.27		0.500
Rain Event	Grab	5/16/2023	13:55		15729004	93		0.881	7.10		0.340
Rain Event	Grab	5/19/2023	11:55		16154003	105		1.38	6.93		0.277
Base	Grab	5/30/2023	12:55		16871003	40		0.924	6.18		0.084
Base	Grab	6/23/2023	12:45		19179003	44		0.226	6.21		0.136
Base	Grab	7/24/2023	12:30		21713002	28		0.902	0.61		0.063
Base	Grab	8/25/2023	12:35		25890002	36		1.66	<0.05		0.152
Rain Event	Grab	10/13/2023	12:45		31131003	11		0.616	0.67		0.062
Rain Event	Grab	10/16/2023	12:20		31224003	15		0.621	0.53		0.058
Rain Event	Grab	10/26/2023	13:05		32423001	30		0.790	0.34		0.107
Rain Event	Dup	10/26/2023	13:10		32423003	28		0.762	0.36		0.101
Rain Event	Grab	10/31/2023	12:20		32631003	6		0.654	0.90		0.063

^ Sample Diluted due to result above calibration of linear range

* Sample Exceeded Holding Time

_@ Reporting limit elevated due to sample matrix