

CHEMICAL DATA - Analytes tested for in a lab, 2021 - MVTL, New Ulm

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

STORET CODE - S001-918

2021 Wateryear (Oct 1, 2020 to Sept. 30, 2021)

FLOW TYPE	SAMP	DATE	TIME	FLOW	LAB SAMPLE	TSS	TSVS	TKN	N-NO2+NO3	P-PO4	TP
	TYPE			(ft ³ /sec)	ID #	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
Winter - Base	Grab	2/23/2021	12:55		21-A6972	6		1.6	2.20	0.015	0.029
Snowmelt	Grab	3/5/2021	12:20		21-A8771	66		2.2	2.62	0.246	0.398
Snowmelt	Grab	3/8/2021	16:00		21-A9032	484		3.2	3.03	0.132	0.520^
Snowmelt	Grab	3/11/2021	13:50		21-A9776	226		2.4	3.10	0.064	0.370
Base	Grab	3/19/2021	13:30		21-A11042	35		1.5	3.66	0.044	0.103
Storm Event	Grab	3/25/2021	13:40		21-A11868	113		1.7	5.49	0.043	0.158
Storm Event	Grab	3/29/2021	14:00		21-A13347	131		2.3	6.79	0.041	0.214
Storm Event	Grab	4/10/2021	15:50		21-A16129	262		2.0	5.39	0.019*	0.277
Storm Event	Grab	4/12/2021	13:55		21-A16133	165		1.7	8.16	0.039	0.248
Storm Event	Grab	4/15/2021	14:20		21-A16976	74		2.1	7.30	0.031	0.130
Base	Grab	4/29/2021	13:35		21-A19748	31		1.7	4.34	<0.005	0.055
Base	Grab	5/26/2021	14:00		21-A25190	101		2.2	5.38	<0.005	0.114
Storm Event	Grab	5/28/2021	14:10		21-A25846	85		1.6	6.03	0.008	0.124
Base	Grab	6/21/2021	13:30		21-A29801	29		1.1	1.35	<0.005	0.058
Base	Grab	7/30/2021	14:45		21-A38359	19		1.3	0.22	<0.005	0.059
Storm Event	Grab	8/27/2021	14:45		21-A43179	59		1.2	0.05	0.021	0.095
Storm Event	Grab	8/30/2021	14:25		21-A43303	373		2.5	0.29	<0.005	0.250
Base	Grab	9/9/2021	14:45		21-A45109	44		1.8	2.42	0.024	0.101
Storm Event	Grab	9/22/2021	15:25		21-A48370	79		2.5	2.02	0.006	0.214
Storm Event	Grab	9/27/2021	13:15		21-A49282	31		0.9	4.19	0.012	0.070
Base	Grab	10/19/2021	14:45		21-A53168	8		0.8	2.07	<0.005	0.026
Storm Event	Grab	10/25/2021	14:00		21-A54419	40		1.3	5.12	0.043	0.085
Storm Event	Grab	10/29/2021	14:15		21-A55730	150		1.4	7.15	0.098	0.254
Storm Event	Grab	11/4/2021	13:50		21-A57399	29		1.4	6.69	0.057	0.099
Base	Grab	11/29/2021	13:10		21-A62947	7		0.7	5.46	0.028	0.031
Base	Grab	12/20/2021	13:25		21-A67880	15		1.1	7.70	0.031	0.056

^ Sample Diluted due to result above calibration of linear range

* Sample Exceeded Holding Time

CHEMICAL DATA - Analytes tested for in a lab, 2021- MVTL, New Ulm

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

STORET CODE - S001-919 2021 Wateryear (Oct 1, 2020 to Sept. 30, 2021)

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	3/11/2021	13:00		21-A9775	35		1.8	4.66		0.273
Base	Grab	3/19/2021	12:30		21-A11041	7		0.8	6.46		0.093
Storm Event	Grab	3/25/2021	12:50		21-A11867	44		1.4	9.84		0.138
Base	Grab	3/29/2021	13:00		21-A13346	7		1.4	10.10		0.069
Base	Grab	4/15/2021	13:15		21-A16975	6		1.4	10.80		0.037
Base	Grab	4/29/2021	12:20		21-A19747	12		2.1	6.86		0.038
Base	Grab	5/26/2021	12:50		21-A25189	64		1.9	8.99		0.138
Storm Event	Grab	5/28/2021	12:55		21-A25845	67		1.6	10.50		0.120
Base	Grab	6/21/2021	12:20		21-A29800	19		0.9	2.40		0.087
Base	Grab	8/27/2021	13:40		21-A43178	40		1.5	0.91		0.218
Base	Grab	9/9/2021	13:40		21-A45108	28		1.2	0.58		0.080
Minor Event	Grab	9/22/2021	14:30		21-A48369	17		1.2	6.01		0.179
Base	Grab	10/19/2021	13:35		21-A53167	6		1.0	4.43		0.043
Minor Event	Grab	10/29/2021	13:10		21-A55729	17		1.2	9.66		0.121

^ Sample Diluted due to result above calibration of linear range

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CHEMICAL DATA - Analytes tested for in a lab, 2021 - MVTL, New Ulm

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

STORET CODE - S001-920

2021 Wateryear (Oct 1, 2020 to Sept. 30, 2021)

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	3/8/2021	14:45		21-A9031	182		2.8	3.42		0.389
Snowmelt	Grab	3/11/2021	12:30		21-A9774	198		2.7	2.81		0.329
Base	Grab	3/19/2021	12:05		21-A11040	29		1.1	3.16		0.100
Storm Event	Grab	3/25/2021	12:25		21-A11866	133		1.5	4.40		0.230
Storm Event	Grab	3/29/2021	12:25		21-A13345	109		1.8	5.81		0.192
Storm Event	Grab	4/9/2021	13:50		21-A16006	80		1.4	4.07		0.236
Storm Event	Grab	4/10/2021	15:00		21-A16128	201		2.0	5.93		0.257
Storm Event	Grab	4/12/2021	12:55		21-A16132	227		2.0	7.36		0.234
Storm Event	Grab	4/15/2021	12:45		21-A16974	59		1.5	6.25		0.112
Base	Grab	4/29/2021	11:50		21-A19746	47		2.1	3.87		0.066
Base	Grab	5/26/2021	12:20		21-A25188	47		1.5	4.12		0.102
Storm Event	Grab	5/28/2021	12:25		21-A25844	51		1.6	4.57		0.103
Base	Grab	6/21/2021	11:50		21-A29799	37		1.6	1.08		0.089
Base	Grab	7/30/2021	13:25		21-A38358	23		1.1	<0.05		0.095
Storm Event	Grab	8/27/2021	13:10		21-A43177	53		1.9	0.19		0.132
Storm Event	Grab	8/30/2021	13:00		21-A43302	213		2.7	1.15		0.315
Base	Grab	9/9/2021	13:10		21-A45107	56		1.4	2.71		0.145
Storm Event	Grab	9/22/2021	14:10		21-A48368	87		2.1	1.79		0.169
Storm Event	Grab	9/27/2021	12:15		21-A49281	29		1.1	4.31		0.101
Base	Grab	10/19/2021	13:05		21-A53166	10		1.0	2.48		0.054
Storm Event	Grab	10/23/2021	11:55		21-A54417	96		1.5	4.76		0.166
Storm Event	Dup	10/23/2021	12:00		21-A54418	100		1.5	4.81		0.172
Storm Event	Grab	10/29/2021	12:45		21-A55728	104		1.4	5.12		0.206

^ Sample Diluted due to result above calibration of linear range

* Sample Exceeded Holding Time