

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

**RR1 - Primary Lower Redwood River at Redwood CR17 near Redwood Falls - Non-impacted stream/Western Corn Belt**

**STORET CODE - S001-679**

**2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)**

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 Base	Grab	1/9/2018	12:55		18-A1275	5		1.5	8.63	0.232	0.341
Winter Base	Grab	2/14/2018	12:55		18-A5619	4		1.4	7.02	0.299	0.456
Snowmelt	Grab	3/22/2018	10:55		18-A13290	102		4.3	4.80	0.603^	0.964
Snowmelt	Grab	3/25/2018	13:30		18-A13449	178		4.4	4.96	0.457	0.852
Snowmelt	Grab	3/26/2018	11:15		18-A13450	203		4.3	5.13	0.446	0.767
Snowmelt	Grab	3/29/2018	10:45		18-A14709	206		3.6	5.50	0.320	0.666
Snowmelt	Grab	4/12/2018	11:50		18-A17276	227		3.1	4.03	0.428	0.917
Snowmelt - Event	Grab	4/20/2018	12:00		18-A18775	116		2.5	4.98	0.184	0.407
Snowmelt - Event	Grab	4/21/2018	14:50		18-A18815	157		3.0	3.87	0.320*	0.780^
Snowmelt - Event	Grab	4/23/2018	15:10		18-A19108	84		2.0	3.79	0.440	0.620^
Snowmelt - Event	Grab	4/25/2018	11:40		18-A19368	92		1.7	2.79	0.221	0.465
Snowmelt - Event	Grab	5/3/2018	11:20		18-A21069	42		1.9	3.25	0.101	0.194
Base	Grab	5/18/2018	11:15		18-A24410	45		1.5	3.22	0.061	0.167
Storm Event	Grab	5/24/2018	10:15		18-A25508	215		2.5	10.00	0.157	0.412
Storm Event	Grab	5/27/2018	10:15		18-A25845	110		2.2	7.18	0.159*	0.305
Storm Event	Grab	6/13/2018	13:05		18-A29341	70		2.1	11.40	0.131	0.294
Storm Event	Grab	6/20/2018	12:30		18-A30743	162		2.0	12.10	0.167	0.384
Storm Event	Grab	6/21/2018	13:30		18-A31368	203		2.5	9.30	0.170	0.461
Storm Event	Grab	6/27/2018	10:30		18-A32854	42		1.7	7.03	0.153	0.226
Storm Event	Grab	7/3/2018	12:00		18-A33651	248		2.0	1.79	0.179	0.495
Storm Event	Grab	7/5/2018	17:50		18-A34354	60		1.3	2.61	0.161	0.317
Storm Event	Grab	7/9/2018	11:20		18-A34498	22		1.5	1.91	0.217	0.295
Storm Event	Grab	7/18/2018	11:40		18-A36606	80		1.8	3.81	0.230	0.391
Storm Event	Grab	7/20/2018	10:55		18-A37338	100		1.8	5.13	0.225	0.424
Storm Event	Grab	7/30/2018	11:25		18-A39416	108		1.6	4.92	0.173	0.363
Base	Grab	8/23/2018	11:15		18-A44205	70		1.7	3.52	0.130	0.296
Storm Event	Grab	9/20/2018	12:10		18-A50184	300		2.9	8.29	0.174	0.580^
Storm Event	Grab	9/21/2018	10:40		18-A50188	166		2.6	6.29	0.257*	0.540^
Storm Event	Dup	9/21/2018	10:45		18-A50192	195		2.6	6.21	0.198	0.520^
Base	Grab	9/28/2018	11:15		18-A52513	26		1.6	5.81	0.129	0.225
Storm Event	Grab	10/10/2018	14:40		18-A55814	138		2.2	7.30	0.260	0.477
Base	Grab	10/31/2018	11:20		18-A60148	42		1.4	8.02	0.060	0.132
Base	Grab	11/15/2018	11:55		18-A64698	28		1.6	8.27	0.056	0.109
Base	Grab	12/19/2018	12:55		18-A70553	21		1.2	8.02	0.061	0.136

^ Sample Diluted due to result above calibration of linear range

\* Sample Exceeded Holding Time

Reporting timeframe has changed from the USGS Wateryear (Oct. 1 to Sept. 30)  
To a calendar year system.

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

**NMRR2 - Redwood River, 0.5 mi North of Marshall on 300th Ave. - Non-impacted stream/Western Corn Belt Plains**

**STORET CODE - S001-203** 2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)

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	3/14/2018	15:40		18-A10940	19		3.4	4.21		0.700^
Snowmelt	Grab	3/21/2018	12:40		18-A13288	173		4.6	2.88		0.797
Snowmelt	Grab	4/11/2018	15:00		18-A17295	254		3.1	2.50		0.727
Snowmelt - Event	Grab	4/22/2018	16:20		18-A18819	457		2.9	1.58		0.670^
Snowmelt - Event	Grab	4/24/2018	12:20		18-A19112	586		2.9	1.06		0.820^
Snowmelt - Event	Grab	5/2/2018	13:10		18-A21067	188		1.6	1.98		0.324
Base	Grab	5/17/2018	12:30		18-A24414	57		1.7	1.46		0.235
Base	Grab	6/6/2018	12:35		18-A28091	35		1.4	3.25		0.312
Storm Event	Grab	6/20/2018	11:35		18-A30744	328		2.5	5.29		0.530^
Storm Event	Grab	6/25/2018	14:15		18-A31984	240		2.5	3.90		0.490
Storm Event	Grab	7/3/2018	10:25		18-A33652	294		2.4	1.80		0.468
Storm Event	Grab	7/4/2018	12:15		18G0104-04	330		1.7	2.20		0.454
Storm Event	Grab	7/7/2018	9:20		18-A34496	354		1.9	1.87		0.520^
Storm Event	Grab	7/17/2018	14:10		18-A36603	143		1.3	2.57		0.389
Base	Grab	8/1/2018	12:30		18-A40203	74		1.4	2.09		0.257
Base	Grab	8/22/2018	11:05		18-A44199	67		1.7	1.93		0.241
Storm Event	Grab	9/20/2018	13:15		18-A50185	410		2.9	2.15		0.670^
Storm Event	Grab	9/21/2018	14:24		18-A50961	492		3.0	3.33		0.770^
Base	Grab	10/3/2018	9:15		18-A54048	88		1.5	4.49		0.237
Storm Event	Grab	10/10/2018	12:40		18-A55815	340		2.2	4.11		0.490^
Storm Event	Dup	10/10/2018	12:45		18-A55817	370		2.5	4.12		0.479
Base	Grab	10/31/2018	12:15		18-A60149	39		1.4	4.92		0.168

^ Sample Diluted due to result above calibration of linear range

\* Sample Exceeded Holding Time

Reporting timeframe has changed from the USGS Wateryear (Oct. 1 to Sept. 30)  
To a calendar year system.

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

**RRUS - Redwood River at Russell - Non-impacted stream/Western Corn Belt Plains**

**STORET CODE - S000-696**

**2018 Wateryear (Oct 1, 2017 to Sept. 30, 2018)**

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	3/21/2018	12:00		18-A13289	134		4.4	2.76		0.807
Snowmelt	Grab	4/11/2018	14:05		18-A17296	145		2.8	2.13		0.515
Snowmelt - Event	Grab	4/22/2018	17:15		18-A18820	598		3.5	1.19		1.05^
Snowmelt - Event	Grab	4/24/2018	13:00		18-A19113	278		2.5	1.23		0.483
Snowmelt - Event	Grab	5/2/2018	13:50		18-A21068	60		1.8	1.90		0.201
Base	Grab	5/17/2018	13:15		18-A24415	27		1.4	0.99		0.111
Base	Grab	6/6/2018	11:55		18-A28092	27		1.1	2.61		0.121
Storm Event	Grab	6/19/2018	9:10		18-A30478	1410		6.1	2.59		1.50^
Storm Event	Grab	6/20/2018	10:45		18-A30745	178		2.2	5.34		0.419
Storm Event	Grab	6/25/2018	13:30		18-A31985	129		2.3	4.10		0.326
Storm Event	Grab	7/3/2018	9:35		18-A33653	436		2.6	2.41		0.530^
Storm Event	Grab	7/5/2018	9:30		18-A34079	125		1.5	1.83		0.416
Storm Event	Grab	7/6/2018	12:00		18-A34355	141		1.7	1.95		0.319
Storm Event	Grab	7/17/2018	13:15		18-A36604	67		1.1	2.22		0.237
Base	Grab	8/1/2018	11:40		18-A40204	38		1.4	1.32		0.165
Base	Grab	8/22/2018	11:40		18-A44200	40		1.5	1.18		0.218
Storm Event	Grab	9/20/2018	13:55		18-A50186	608		4.7	4.47		0.870^
Storm Event	Grab	9/21/2018	13:30		18-A50962	270		2.3	3.23		0.520^
Base	Grab	10/3/2018	10:40		18-A54049	46		1.6	4.32		0.151
Storm Event	Grab	10/10/2018	12:00		18-A55816	232		1.9	4.82		0.418
Storm Event	Dup	10/10/2018	12:05		18-A55818	232		2.2	4.82		0.415
Base	Grab	10/31/2018	12:50		18-A60150	23		1.9	4.83		0.074

^ Sample Diluted due to result above calibration of linear range

\* Sample Exceeded Holding Time

Reporting timeframe has changed from the USGS Wateryear (Oct. 1 to Sept. 30)

To a calendar year system.