

**CHEMICAL DATA - Analytes tested for in a lab, 2013 - MVTL, New Ulm**

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

**STORET CODE - S001-679**

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	TURBIDITY NTU
Baseflow	Grab	1/15/2013	12:50		13-A2212	13	2	1.4	4.42	1.58*^	1.74^	7.2
Baseflow	Grab	2/13/2013	9:45		13-A5035	13	6	1.7	4.62	1.65*^	2.03^	8
Baseflow	Grab	4/16/2013	10:05		13-A12285	33	10	1.5	1.93	0.444*	0.622	21
Storm Event	Grab	4/26/2013	10:30		13-A13891	52	7	2.0	5.91	0.252*	0.416	31
Storm Event	Grab	4/29/2013	9:35		13-A14063	264	42	2.4	5.90	0.154*	0.572	150
Storm Event	Grab	5/3/2013	8:50		13-A14970	164	26	1.5	4.58	0.153*	0.325	100
Baseflow	Grab	5/7/2013	9:20		13-A15500	91	19	2.1	3.12	0.157*	0.340	66
Baseflow	Grab	5/21/2013	10:05		13-A18274	34	10	1.9	2.65	0.120*	0.257	17
Storm Event	Grab	6/10/2013	11:35		13-A22188	179	27	2.0	3.66	0.173*	0.335	87
Storm Event	Grab	6/11/2013	9:55		13-A22182	74	14	2.6	12.30	0.159*	0.431	27
Storm Event	Grab	6/13/2013	9:25		13-A22867	212	31	2.6	12.00	0.127*	0.405	120
Storm Event	Dup	6/13/2013	9:26		13-A22869	193	29		11.90		0.413	110
Storm Event	Grab	6/17/2013	11:10		13-A23428	157	26	2.1	10.70	0.108*	0.285	92
Storm Event	Grab	6/24/2013	9:30		13-A24650	190	32	2.4	10.80	0.246*	0.495	140
Storm Event	Grab	6/25/2013	11:15		13-A24992	150	26	2.5	11.30	0.212*	0.449	100
Storm Event	Grab	6/27/2013	10:05		13-A25785	108	18	2.0	10.20	0.185*	0.373	62
Storm Event	Grab	7/2/2013	10:10		13-A26527	145	22	2.1	8.00	0.164*	0.358	86
Storm Event	Grab	7/10/2013	9:35		13-A27892	55	13	1.6	6.31	0.159	0.265	35
Baseflow	Grab	7/30/2013	10:50		13-A31854	24	7	1.0	2.14	0.165	0.228	17
Baseflow	Grab	8/15/2013	10:05		13-A35083	66	26	1.7	<0.2	<0.02	0.280	36
Baseflow	Grab	9/18/2013	9:45		13-A40163	43	16	1.2	<0.2	0.131	0.325	31
Baseflow	Dup	9/18/2013	9:46		13-A40170	50	17	1.2	<0.2	0.145	0.329	31
Baseflow	Grab	9/30/2013	10:00		13-A41962	33	14	1.9	<0.2	0.314	0.570^	19
Storm Event	Grab	10/15/2013	9:30		13-A44750	30	8	1.0	1.00	0.715*^	1.06^	23
Storm Event	Grab	10/16/2013	16:25		13-A45514	29	11	1.2	0.89	0.838^	1.08^	21
Storm Event	Grab	10/17/2013	12:45		13-A45513	24	9	1.0	1.62	0.928^	1.28^	16
Baseflow	Grab	10/31/2013	11:05		13-A48141	9	6	0.7	1.27	0.610^	0.770^	6.6
Baseflow	Grab	11/19/2013	12:50		13-A50700	7	4	0.8	2.43	0.702^	0.836^	3.1
Baseflow	Grab	12/27/2013	9:45		13-A54628	5	4	1.4	5.12	1.46^	1.81^	4.2

^ Sample Diluted due to result above calibration or linear range

\* Sample Exceeded Holding Time

**CHEMICAL DATA - Analytes tested for in a lab, 2013 - MVTL, New Ulm**

**TC4A - Three Mile Creek near Green Valley - Non-impacted stream/Western Corn Belt Plains**

**STORET CODE - S002-313**

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	TURBIDITY NTU
Storm Event	Grab	4/28/2013	13:55		13-A14069	174	34		7.14	0.075*	0.258	83
Storm Event	Grab	4/29/2013	10:30		13-A14070	122	28		6.68	0.075*	0.238	85
Baseflow	Grab	5/7/2013	10:30		13-A15514	44	13		3.45	<0.02*	0.077	27
Baseflow	Grab	5/29/2013	11:00		13-A19858	18	5		3.48	<0.005*	0.044	11
Storm Event	Grab	6/11/2013	11:00		13-A22189	94	16		12.70	0.064*	0.190	49
Storm Event	Grab	6/24/2013	10:15		13-A24663	66	9		10.60	0.220*	0.338	47
Storm Event	Grab	6/27/2013	11:10		13-A25791	90	22		14.90	0.145*	0.281	54
Storm Event	Grab	7/2/2013	11:00		13-A26535	65	16		11.50	0.138*	0.246	40
Baseflow	Grab	7/10/2013	10:20		13-A27899	19	7		5.62	0.063	0.141	10
Baseflow	Grab	8/15/2013	11:05		13-A35093	45	12		0.21	0.028	0.108	37
Baseflow	Grab	9/18/2013	10:35		13-A40173	45	11		<0.2	0.018	0.092	39
Baseflow	Grab	9/30/2013	10:50		13-A41968	36	11		<0.2	0.013	0.071	28
Baseflow	Dup	9/30/2013	10:51		13-A41969	38	12		0.20	0.012	0.070	28
Baseflow	Grab	10/15/2013	10:20		13-A44748	34	9		0.26	0.017*	0.079	24

^ Sample Diluted due to result above calibration or linear range

\* Sample Exceeded Holding Time

**CHEMICAL DATA - Analytes tested for in a lab, 2013 - 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**

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	TURBIDITY NTU
Snowmelt	Grab	4/3/2013		10:25	13-A10193	22	8	1.7	3.36	0.834*	1.040	16
Storm Event	Grab	4/28/2013		13:30	13-A14060	766	66	3.6	5.63	0.141*	0.950	400
Storm Event	Grab	4/29/2013		11:00	13-A14064	570	68	3.2	5.84	0.155*	0.747	360
Baseflow	Grab	5/7/2013		11:10	13-A15501	48	13	2.3	2.54	0.274*	0.448	31
Baseflow	Grab	5/29/2013		11:35	13-A19856	31	7	1.1	3.11	0.348*	0.424	9.7
Storm Event	Grab	6/11/2013		11:35	13-A22183	154	23	2.1	9.95	0.132*	0.336	82
Storm Event	Grab	6/24/2013		10:40	13-A24651	462	64	3.1	7.13	0.135*	0.585	350
Storm Event	Grab	6/27/2013		11:40	13-A25786	228	32	2.1	4.59	0.135*	0.408	150
Storm Event	Grab	7/2/2013		11:30	13-A26528	119	20	1.7	3.09	0.126*	0.297	75
Baseflow	Grab	7/10/2013		10:40	13-A27893	34	9	1.6	3.43	0.264	0.372	18
Baseflow	Dup	7/10/2013		10:45	13-A27898	33	9	1.1	3.40	0.276	0.373	18
Baseflow	Grab	8/15/2013		11:35	13-A35084	6	5	1.4	4.61	1.78^	2.23^	1.9
Baseflow	Grab	9/18/2013		11:10	13-A40164	16	7	1.7	7.62	2.81^	3.57^	3
Baseflow	Grab	9/30/2013		11:15	13-A41963	10	7	1.9	8.12	4.12^	4.70^	2
Baseflow	Grab	10/15/2013		10:45	13-A44751	23	6	0.9	2.53	0.991^*	1.34^	20

^ Sample Diluted due to result above calibration or linear range

\* Sample Exceeded Holding Time

**CHEMICAL DATA - Analytes tested for in a lab, 2013 - MVTL, New Ulm**

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

**STORET CODE - S000-696**

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	TURB NTU
Snowmelt	Grab	4/3/2013	11:10		13-A10194	22	10	2.1	2.09	0.138*	0.210	15
Baseflow	Grab	4/16/2013	11:40		13-A12286	58	15	0.9	0.90	0.014*	0.062	8.9
Storm Event	Grab	4/28/2013	12:50		13-A14061	380	44	1.6	6.13	0.088*	0.476	210
Storm Event	Grab	4/29/2013	11:40		13-A14065	284	36	2.2	5.23	0.098*	0.410	160
Baseflow	Grab	5/7/2013	11:45		13-A15502	22	12	1.7	2.15	<0.02*	0.086	9.2
Baseflow	Grab	5/29/2013	12:15		13-A19857	6	4	1.1	1.88	0.005*	0.024	4.2
Storm Event	Grab	6/11/2013	12:10		13-A22184	71	14	2.2	8.41	0.065*	0.190	43
Storm Event	Grab	6/24/2013	11:10		13-A24652	230	34	2.7	6.98	0.137*	0.383	160
Storm Event	Grab	6/27/2013	12:15		13-A25787	114	20	1.9	3.73	0.108*	0.286	71
Storm Event	Grab	7/2/2013	12:05		13-A26529	59	12	1.6	2.82	0.095*	0.198	35
Storm Event	Dup	7/2/2013	12:06		13-A26533	56	11		2.82		0.203	35
Baseflow	Grab	7/10/2013	11:15		13-A27894	14	7	1.1	2.81	0.031	0.066	10
Baseflow	Grab	8/15/2013	12:15		13-A35085	17	6	1	0.24	<0.02	0.053	13
Baseflow	Grab	9/18/2013	11:45		13-A40165	12	7	0.7	<0.2	0.012	0.032	4.1
Baseflow	Grab	9/30/2013	11:55		13-A41964	8	6	0.7	<0.2	0.009	0.340^	4.7
Baseflow	Grab	10/15/2013	11:20		13-A44752	8	3	<0.2	<0.2	0.012*	0.046	5.6

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