

CHEMICAL DATA - Analytes tested for in a lab, 2010 - 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 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	FECAL COL. /100mL	E.COLI /100mL	TURBIDITY NTU
Base Flow	Grab	1/29/2010	10:50		10-A3621	7	3	1.3	7.56	0.616^	0.646^			12
Base Flow	Grab	2/11/2010	11:55		10-A5257	8	4	0.9	6.88	0.477^	0.544			4.4
Snowmelt	Grab	3/16/2010	9:25		201005435	120	15	2.43	7.00	0.757*	0.985			55*
Snowmelt	Dup	3/16/2010	9:26		10-A9111	128	17		6.90	0.554	0.940			67
Snowmelt	Grab	3/17/2010	10:15		201005684	100	10	2.53	7.20	0.699*	0.871			47*
Snowmelt	Grab	3/19/2010	11:05		201005779	110	14	2.28	7.60	0.524*	0.706			48*
Snowmelt	Grab	3/23/2010	9:15		10-A10402	57	8		8.27	0.217^	0.368			30
Snowmelt	Grab	3/25/2010	10:45		201006232	36	4.8	1.86	8.0^	0.272*	0.302			22*
Base Flow	Grab	4/5/2010	9:50		201007058	79	10	1.60	3.3^	0.163*	0.219			46*
Base Flow	Grab	4/13/2010	11:05		10-A14093	67	11	1.3	5.86	0.078	0.206^			37
Base Flow	Grab	4/19/2010	9:45		10-A15381	42	6	0.7	5.96	0.115^	0.220^			23
Base Flow	Grab	4/27/2010	8:50		10-A17083	27	4	0.9	6.11	0.143	0.193^			15
Base Flow	Grab	4/27/2010	8:51		10-A17076								32.7*	
Base Flow	Grab	5/5/2010	8:50		10-A18870	18	2	0.8	5.93	0.081	0.171			13
Storm Flow	Grab	5/13/2010	9:50		10-A20645	45	8	0.7	11.7	0.103	0.213^			27
Storm Flow	Grab	5/13/2010	9:51		10-A20790								365.4*	
Storm Flow	Grab	5/19/2010	9:00		10-A21907	55	7	1.4	10.6	0.051*	0.165			33
Base Flow	Grab	5/27/2010	10:00		10-A23527	62	11	1.1	9.27	0.070	0.182			36
Base Flow	Grab	6/2/2010	9:05		10-A24397	53	4	1.4	8.14	0.090	0.196			37
Storm Flow	Grab	6/11/2010	9:45		10-A26173	522	71	3.8	7.80	0.230^	0.802^			310
Storm Flow	Grab	6/14/2010	10:20		10-A26396	100	10	1.7	14.6	0.171	0.306^			56
Storm Flow	Dup	6/14/2010	10:21		10-A26395	101	12		14.6	0.159	0.299^			60
Storm Flow	Grab	6/15/2010	9:40		10-A26885	103	14	1.7	14.7	0.171	0.325^			58
Storm Flow	Grab	6/15/2010	9:41		10-A26878								387.3*	
Storm Flow	Grab	6/18/2010	9:20		10-A27841	85	9	2.7	11.8	0.150	0.333^			47
Storm Flow	Grab	6/23/2010	10:05		10-A28502	95	11	1.7	7.85	0.126	0.300^			60
Storm Flow	Grab	6/28/2010	9:30		10-A29425	73	<2	1.7	8.64	0.244	0.331^			52
Storm Flow	Dup	6/28/2010	9:31		10-A29414	85	11		8.64	0.226	0.363^			52

Storm Flow	Grab	6/29/2010	9:15		10-A29771	37	<2	1.5	7.90	0.210^	0.297^			29
Base Flow	Grab	7/14/2010	11:20		10-A32960	123	55	1.9	6.47	0.187	0.379^			73
Base Flow	Dup	7/14/2010	11:21		10-A32952	120	15		6.39	0.187	0.373^	196.8*		69
Base Flow	Grab	7/26/2010	9:40		10-A35264	187	22	2.1	5.36	0.162	0.457^			120
Base Flow	Grab	8/5/2010	9:10		10-A38047	111	17	1.2	2.78	0.225^	0.431			71
Base Flow	Grab	8/17/2010	10:40		10-A40204	50	8	1.7	5.23	0.326^	0.406			32
Base Flow	Dup	8/17/2010	10:41		10-A40216	48	9		5.27	0.284^	0.397	101.4*		31
Base Flow	Grab	8/24/2010	9:05		10-A41357	26	7	1.4	2.02	0.229^	0.376^			16
Base Flow	Grab	8/31/2010	12:05		10-A42646	26	15	1.5	0.54	0.192	0.392^			15
Base Flow	Dup	8/31/2010	12:06		10-A42636	26	15		0.53	0.020	0.377			14
Base Flow	Grab	9/2/2010	10:40		10-A43305	69	14	0.8	2.39	0.281	0.387^			33
Storm Flow	Grab	9/3/2010	9:35		10-A43489	261	34		5.77	0.217^	0.621^			140
Storm Flow	Grab	9/7/2010	12:25		10-A43675	87	15	1.5	3.60	0.198	0.360^			45
Storm Flow	Dup	9/7/2010	12:26		10-A43674	77	12		3.62	0.196	0.370^	517.2*		46
Storm Flow	Grab	9/16/2010	9:05		10-A45922	67	12	1.1	6.96	0.144	0.226			36
Storm Flow	Grab	9/17/2010	8:45		10-A46102	52	10	1.4	7.72	0.152	0.234			35
Storm Flow	Grab	9/21/2010	9:45		10-A46477	32	8	0.8	5.06	0.101	0.179			19
Storm Flow	Grab	9/23/2010	12:00		10-A47292	126	18	2.1	5.52	0.187	0.332			55
Storm Flow	Grab	9/24/2010	7:35		10-A47435	87	15	2.0	4.17	0.216^	0.408			76
Storm Flow	Grab	9/27/2010	9:35		10-A47685	57	11	0.7	1.73	0.124	0.244			69
Storm Flow	Grab	9/30/2010	9:50		10-A48416	23	2	0.8	2.19	0.144	0.201			25
Storm Flow	Grab	10/7/2010	9:10		10-A49700	25	7	1.0	3.42	0.096	0.187			15
Storm Flow	Grab	10/14/2010	9:45		10-A51112	56	9	1.0	5.38	0.118	0.193^			38
Storm Flow	Grab	10/22/2010	10:20		10-A52895	44	10	1.7	6.57	0.186	0.251^			32
Base Flow	Grab	11/23/2010	9:45		10-A59113	14	4	1.4	8.69	0.185	0.231^			12
Base Flow	Grab	12/9/2010	12:15		10-A61557	9	3	1.4	8.7	0.239^	0.302^			3.7

* Sample Exceeded Holding Time

^ Sample Diluted due to result above calibration or linear range

CHEMICAL DATA - Analytes tested for in a lab, 2010 - MVTL, New Ulm

CC3 - Clear Creek in Seaforth - Non-impacted stream/Western Corn Belt Plains

STORET CODE - S002-311

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft ³ /sec)	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	NO2+N MG/L	P-PO4 MG/L	TP MG/L	ECAL /100ML	COI /100mL	E.COLI /100mL	TURBIDITY NTU
Snowmelt	Grab	3/17/2010	10:40		10-A9366	48	4		8.97	0.547^	0.835				21
Snowmelt	Grab	3/23/2010	9:50		10-A10403	49	5		12.1	0.203^	0.384				21
Snowmelt	Grab	3/25/2010	11:15		10-A10955	30	4		13.10	0.275	0.357				15
Base Flow	Grab	4/5/2010	10:15		10-A12474	14	5		13.60	0.066	0.110				5.4
Base Flow	Grab	4/19/2010	10:15		10-A15370	4	2		13.60	0.006	0.025			96.0*	2.2
Storm Flow	Grab	5/13/2010	10:25		10-A20787	6	5		18.40	0.027	0.066			579.4*	4.0
Base Flow	Grab	5/27/2010	10:35		10-A23521	11	3		16.30	0.018	0.050				4.0
Storm Flow	Grab	6/11/2010	9:15		10-A26172	255	37		12.20	0.224^	0.586^				140
Storm Flow	Grab	6/14/2010	9:50		10-A26394	22	3		18.20	0.151	0.191^				13
Storm Flow	Grab	6/15/2010	10:15		10-A26879	24	5		17.90	0.130	0.208^			>2419.6*	11
Storm Flow	Grab	6/28/2010	10:00		10-A29415	21	3		13.80	0.206	0.252^				18
Storm Flow	Grab	6/29/2010	9:45		10-A29759	22	4		14.60	0.175	0.231^				13
Base Flow	Grab	7/14/2010	11:50		10-A32953	6	<2		12.40	0.052	0.088			261.3	3.9
Base Flow	Grab	7/26/2010	10:10		10-A35259	15	4		11.80	0.130	0.189				7.3
Base Flow	Grab	8/17/2010	11:05		10-A40213	8	3		11.00	0.056	0.103			161.6*	5.5
Base Flow	Grab	8/31/2010	12:30		10-A42633	7	5		1.92	0.021	0.081				4.5
Storm Flow	Grab	9/3/2010	10:00		10-A43490	84	14		10.5	0.189	0.311				39
Storm Flow	Grab	9/7/2010	11:55		10-A43671	39	10		13.1	0.109	0.179			816.4*	16
Storm Flow	Grab	9/17/2010	9:05		10-A46099	35	6		14.6	0.124	0.187				21
Storm Flow	Grab	9/21/2010	10:10		10-A46471	29	6		14.5	0.069	0.129				14
Storm Flow	Grab	9/24/2010	8:05		10-A47421	62	10		4.22	0.248^	0.374				83
Storm Flow	Grab	9/27/2010	10:10		10-A47688	18	5		7.06	0.166	0.219				21
Storm Flow	Grab	9/30/2010	10:20		10-A48411	24	5		8.08	0.122	0.204				17

* Sample Exceeded Holding Time

^ Sample Diluted due to result above calibration or linear range

CHEMICAL DATA - Analytes tested for in a lab, 2009 - 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 ³ /sec)	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	NO2+N MG/L	P-PO4 MG/L	TP MG/L	ECAL COI /100ML	E.COLI	TURBIDITY NTU
Snowmelt	Grab	3/16/2010	10:30		10-A9112	28	7		8.30	0.507	0.635			20
Snowmelt	Grab	3/17/2010	11:15		10-A9367	28	4		7.94	0.389^	0.580			19
Snowmelt	Grab	3/23/2010	10:35		10-A10404	45	4		9.67	0.212^	0.366			24
Base Flow	Grab	4/5/2010	10:55		10-A12475	32	7		8.35	0.046	0.110			17
Base Flow	Grab	4/19/2010	10:55		10-A15371	12	<2		8.09	<0.005	0.024		18.5*	6.3
Storm Flow	Grab	5/13/2010	11:10		10-A20788	16	8		12.80	0.015	0.067		307.6*	11
Base Flow	Grab	5/27/2010	11:20		10-A23522	28	6		10.00	0.027	0.090			15
Storm Flow	Grab	6/15/2010	11:00		10-A26880	43	6		15.20	0.178	0.315		1986.3*	29
Storm Flow	Grab	6/28/2010	10:45		10-A29416	37	7		4.96	0.245	0.399^			46
Storm Flow	Grab	6/29/2010	10:20		10-A29760	18	4		6.46	0.156	0.257^			17
Storm Flow	Grab	6/30/2010	9:30		10-A30130	8	<2		8.22	0.148	0.171^			15
Base Flow	Grab	7/14/2010	12:35		10-A32954	43	8		8.71	0.126	0.231^		344.8	26
Base Flow	Grab	7/26/2010	10:55		10-A35260	89	15		6.29	0.148	0.282			53
Base Flow	Grab	8/17/2010	11:45		10-A40214	27	5		7.49	0.244^	0.322		113.7*	18
Base Flow	Grab	8/31/2010	13:15		10-A42634	72	14		5.12	0.197	0.345^			39
Storm Flow	Grab	9/3/2010	10:45		10-A43491	107	19		2.4	0.233^	0.395^			120
Storm Flow	Grab	9/7/2010	10:00		10-A43672	54	13		7.42	0.166	0.330^		>2419.6*	44
Storm Flow	Grab	9/17/2010	9:50		10-A46100	35	10		5.34	0.172	0.301			62
Storm Flow	Grab	9/17/2010	9:51		10-A46100	44								60
Storm Flow	Grab	9/24/2010	8:40		10-A47422	146	22		1.17	0.193	0.496			200
Storm Flow	Grab	9/27/2010	10:55		10-A47689	18	5		2.59	0.152	0.226			40

* Sample Exceeded Holding Time

^ Sample Diluted due to result above calibration or linear range

CHEMICAL DATA - Analytes tested for in a lab, 2009 - 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 ³ /sec)	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	NO2+N MG/L	P-PO4 MG/L	TP MG/L	ECAL /100ML	COI	E.COLI	TURB NTU
Snowmelt	Grab	3/16/2010	11:10		10-A9113	86	11		7.25	0.196	0.342				53
Snowmelt	Grab	3/17/2010	11:45		10-A9368	203	20		6.50	0.135^	0.441				100
Snowmelt	Grab	3/23/2010	11:10		10-A10405	101	11		6.72	0.120	0.279				45
Base Flow	Grab	4/5/2010	11:35		10-A12476	35	8		3.62	0.015	0.100				16
Base Flow	Grab	4/19/2010	11:55		10-A15372	16	2		2.82	<0.005	0.033			14.8	8
Storm Flow	Grab	5/13/2010	12:25		10-A20789	20	6		6.57	0.017	0.076			1986.3	16
Base Flow	Grab	5/27/2010	12:45		10-A23523	9	3		3.24	0.006	0.043				6.1
Storm Flow	Grab	6/15/2010	12:15		10-A26881	86	10		8.42	0.119	0.253^			980.4*	48
Storm Flow	Grab	6/28/2010	12:05		10-A29417	49	7		5.59	0.138	0.189				29
Storm Flow	Grab	6/29/2010	11:15		10-A29762	48	9		4.77	0.083	0.177				30
Base Flow	Grab	7/14/2010	13:45		10-A32955	36	7		2.67	0.096	0.179			118.7	20
Base Flow	Grab	7/26/2010	12:30		10-A35261	59	10		3.32	0.124	0.230				34
Base Flow	Grab	8/17/2010	12:55		10-A40215	12	6		0.69	0.089	0.163			111.2	7.4
Base Flow	Grab	8/31/2010	14:25		10-A42635	44	12		1.33	0.086	0.202				22
Storm Flow	Grab	9/3/2010	11:50		10-A43492	101	18		2.67	0.138	0.303				79
Storm Flow	Grab	9/7/2010	10:55		10-A43673	48	10		2.98	0.113	0.260^			1732.9*	37
Storm Flow	Grab	9/24/2010	9:25		10-A47423	298	48		1.38	0.086	0.440				220
Storm Flow	Grab	9/27/2010	11:40		10-A47690	121	16		1.69	0.106	0.228				87

* Sample Exceeded Holding Time

^ Sample Diluted due to result above calibration or linear range