

CHEMICAL DATA - Analytes tested for in a lab, 2012 - 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 **2012 Wateryear (Oct 1, 2011 to Sept. 30, 2012)**

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	TURBIDITY NTU
Base	Grab	10/27/2011	12:35		11-A53991	15	8	0.9	1.26	0.785^	0.874^	8.5
Base	Grab	11/28/2011	12:30		11-A58136	5	2	0.8	2.30	0.806^	1.19^	4.1
Base	Grab	12/28/2011	12:35		11-A62037	5	4	1.0	2.57	0.838^	1.01^	7
Base	Grab	1/26/2012	10:50		12-A3993	8	5	1.8	4.47	1.21^	1.44^	4.5
Base	Grab	2/27/2012	10:00		12-A7720	10	7		2.89	0.898^	1.15^	2.8
Snow Melt	Grab	3/16/2012	11:15		12-A10523	24	9	1.4	1.50	0.357^	0.532	13
Base	Grab	4/11/2012	10:05		12-A14754	45	21	2.5	<0.2	0.384^	0.894^	26
Base	Grab	4/24/2012	9:20		12-A17171	34	14	1.4	0.93	0.555^	0.749^	20
Storm Event	Grab	5/7/2012	9:20		12-A19742	527	67	4.1	7.09	0.268*	0.967	340
Storm Event	Grab	5/8/2012	9:25		12-A20079	483	73	3.4	5.93	0.194	0.958	380
Storm Event	Grab	5/11/2012	11:55		12-A20955	143	17	1.6	4.07	0.182	0.397	80
Storm Event	Grab	5/18/2012	11:05		12-A22026	206	30	1.5	3.70	0.272^	0.470	130
Storm Event	Grab	5/29/2012	9:20		12-A23700	250	40	2.0	10.50	0.160	0.515	180
Storm Event	Grab	6/8/2012	11:00		12-A25986	315	43	2.8	7.21	0.161	0.581^	190
Base	Grab	6/13/2012	9:35		12-A26882	80	15	1.5	7.72	0.197	0.316	53
Base	Dup	6/13/2012	9:36		12-A26888	80			7.70			55
Base	Grab	6/27/2012	9:25		12-A29625	91	20	2.6	6.14	0.072	0.335	60
Base	Grab	7/12/2012	10:00		12-A32344	79	28	2.1	<0.2	<0.005	0.240	45
Base	Grab	7/31/2012	9:40		12-A35787	41	9	0.9	<0.2	<0.01~	0.207	34
Base	Grab	8/21/2012	9:30		12-A38880	75	35	1.6	<0.2	<0.005*	0.276	38
Base	Dup	8/21/2012	9:31		12-A38876	77			<0.2			26
Base	Grab	8/29/2012	9:40		12-A40143	52	24	1.4	<0.2	<0.005*	0.250	26
Base	Grab	9/13/2012	9:30		12-A42391	67	23	1.8	<0.2	0.017*	0.328^	42
Base	Grab	9/20/2012	9:35		12-A43397	47	22	1.7	<0.2	0.008*	0.317^	34
Base	Dup	9/20/2012	9:36		12-A43393	43					0.312^	35
Base	Grab	10/23/2012	12:10		12-A47889	91	31	2.9	<0.2	1.14*^	1.13^	48
Base	Grab	11/15/2012	10:20		12-A51473	13	7	1.4	2.87	1.10*^	1.35^	11
Base	Grab	12/27/2012	11:20		12-A56264	10	6	1.4	4.99	2.30*^	2.50*	6.7

^ Sample Diluted due to result above calibration or linear range

* Sample Exceeded Holding Time

~ Reporting limit elevated due to instrument performance

CHEMICAL DATA - Analytes tested for in a lab, 2012 - MVTL, New Ulm

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

STORET CODE - S002-311 2012 Wateryear (Oct 1, 2011 to Sept. 30, 2012)

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	TURBIDITY NTU
Base	Grab	4/11/2012	10:35		12-A14746	8	3		0.40	0.014	0.079	5.7
Base	Grab	4/24/2012	9:50		12-A17174	19	8		0.46	0.018	0.083	12
Storm Event	Grab	5/7/2012	9:50		12-A19735	177	30		10.60	0.335^	0.668	190
Storm Event	Grab	5/8/2012	9:55		12-A20076	160	30		12.40	0.272	0.468	110
Storm Event	Grab	5/29/2012	9:55		12-A23707	105	18		17.50	0.260^	0.362	70
Base	Grab	6/13/2012	10:05		12-A26885	32	11		15.90	0.057	0.118	16
Base	Grab	6/27/2012	10:00		12-A29618	13	3		14.10	0.027	0.058	7.7
Base	Grab	7/12/2012	10:35		12-A32351	15	4		1.84	0.019	0.077	13
Base	Grab	7/31/2012	10:05		12-A35794	40	9		0.66	0.060	0.140	27
Base	Grab	8/21/2012	9:55		12-A38873	33	10		0.46	0.031*	0.106	29
Base	Grab	8/29/2012	10:05		12-A40140	29	8		<0.2	0.008*	0.101	22
Base	Grab	9/13/2012	10:00		12-A42388	25	7		<0.2	0.011*	0.085	18
Base	Grab	9/20/2012	10:00		12-A43390	22	9		<0.2	0.019*	0.086	18

^ Sample Diluted due to result above calibration or linear range

* Sample Exceeded Holding Time

CHEMICAL DATA - Analytes tested for in a lab, 2012 - MVTL, New Ulm

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

STORET CODE - S002-313 2012 Wateryear (Oct 1, 2011 to Sept. 30, 2012)

FLOW TYPE	SAMP	DATE	TIME	FLOW	LAB SAMPLE	TSS	TSVS	TKN	N-NO2+NO3	P-PO4	TP	TURBIDITY
	TYPE			(ft ³ /sec)	ID #	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	NTU
Base	Grab	4/11/2012	11:20		12-A14747	21	5		0.31	0.009	0.058	20
Base	Grab	4/24/2012	10:40		12-A17175	79	16		0.55	0.008	0.111	58
Storm Event	Grab	5/7/2012	10:40		12-A19736	323	53		6.70	0.107	0.500	210
Storm Event	Grab	5/8/2012	10:40		12-A20077	222	44		8.06	0.108	0.364	150
Storm Event	Grab	5/29/2012	10:45		12-A23713	248	36		11.30	0.072	0.382	170
Base	Grab	6/13/2012	10:55		12-A26886	72	15		5.86	0.022	0.141	48
Base	Grab	6/27/2012	10:50		12-A29619	34	11		3.71	<0.005	0.075	21
Base	Grab	7/12/2012	11:20		12-A32352	54	14		<0.2	0.008	0.130	43
Base	Grab	7/31/2012	10:55		12-A35795	84	20		<0.2	0.010	0.176	68
Base	Grab	8/21/2012	10:45		12-A38874	49	12		<0.2	0.006*	0.070	38
Base	Grab	8/29/2012	10:50		12-A40141	42	12		<0.2	0.006*	0.070	31
Base	Grab	9/13/2012	10:50		12-A42389	24	7		<0.2	0.009*	0.072	18
Base	Grab	9/20/2012	10:50		12-A43391	23	8		<0.2	0.009*	0.084	20

^ Sample Diluted due to result above calibration or linear range

* Sample Exceeded Holding Time

CHEMICAL DATA - Analytes tested for in a lab, 2012 - MVTL, New Ulm

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

STORET CODE - S000-696 2012 Wateryear (Oct 1, 2011 to Sept. 30, 2012)

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	TURB NTU
Base	Grab	4/11/2012	12:10		12-A14748	10	5		<0.2	<0.005	0.068	6.9
Base	Grab	4/24/2012	11:25		12-A17176	13	10		0.25	<0.005	0.053	10
Base	Grab	5/2/2012	12:20		12-A18975	25	9		0.37	<0.005	0.061	13
Storm Event	Grab	5/7/2012	11:50		12-A19737	483	60		3.69	0.134	0.729	410
Storm Event	Grab	5/8/2012	11:20		12-A20078	248	40		3.24	0.144	0.492	210
Storm Event	Grab	5/29/2012	11:30		12-A23714	106	15		5.40	0.060	0.248	67
Base	Grab	6/13/2012	11:55		12-A26887	28	9		4.44	<0.005	0.084	17
Base	Grab	6/27/2012	11:35		12-A29620	41	14		3.09	<0.005	0.112	27
Base	Grab	7/12/2012	12:05		12-A32353	5	2		0.56	0.027	0.064	8.3
Base	Grab	7/31/2012	11:40		12-A35796	16	7		0.26	0.016	0.077	11
Base	Grab	8/21/2012	11:40		12-A38875	16	7		<0.2	0.005*	0.066	11
Base	Grab	8/29/2012	12:00		12-A40142	18	8		<0.2	0.007*	0.055	11
Base	Grab	9/13/2012	11:35		12-A42390	10	5		<0.2	0.007*	0.035	4.8
Base	Grab	9/20/2012	11:35		12-A43392	5	4		<0.2	0.007*	0.043	6.2

^ Sample Diluted due to result above calibration or linear range

* Sample Exceeded Holding Time