

CHEMICAL DATA - Analytes tested for in a lab, 2005 - MVTL, New Ulm

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

FLOW	SAMP	LAB SAMPLE			FLOW	TSS	N-NO2+NO3	P-PO4	TP	FECAL COL.	TURBIDITY	
TYPE	TYPE	DATE	TIME	ID #	(ft ³ /sec)	MG/L	MG/L	MG/L	MG/L	/100ML	NTU	CHLOR-A
Base Flow	Grab	1/19/2005	10:30	05-A1501	12	10	7.01	1.670	1.680		7	
Base Flow	Grab	2/17/2005	9:45	05-A4059	40	12	3.70	1.040	1.090		6.8	
Base Flow	Grab	3/22/2005	10:20	05-A6824	34	12	1.65	0.773	0.830		8	
Base Flow	Grab	3/31/2005	8:30	05-A8095	179	84	2.02	0.600	0.846		26	
Storm Flow	Grab	4/13/2005	8:45	05-A9871	677	382	13.70	0.405	0.732		160	
Storm Flow	Grab	4/14/2005	9:00	05-A10037	599	276	12.70	0.249	0.481		100	
Storm Flow	Grab	4/19/2005	9:30	05-A10632	395	162	11.00	0.230	0.380		37	
Base Flow	Grab	4/26/2005	8:45	05-A11662	218	46	8.44	0.214	0.270	40	18	
Storm Flow	Grab	5/16/2005	8:30	05-A14841	364	76	13.60	0.167	0.251		23	
Storm Flow	Grab	5/18/2005	10:00	05-A15357	637	264	14.00	0.300	0.458		120	
Base Flow	Grab	5/24/2005	8:00	05-A16173	303							14.4
Base Flow	Grab	5/24/2005	8:00	05-A16162	303	79	12.50	0.210	0.278	80	25	
Base Flow	Grab	6/8/2005	12:15	05-A18105	280	84	12.70	0.300	0.300	1600	24	
Base Flow	Grab	6/27/2005	8:30	05-A20707	251	92	7.80	0.320	0.390	2600	31	
Base Flow	Grab	6/28/2005	9:30	05-A20890	205							13.8
Base Flow	Grab	7/5/2005	9:30	05-A21725	125	42	6.40	0.381	0.443	1500	18	
Base Flow	Grab	7/19/2005	10:00	05-A24030	42	46	2.77	0.488	0.540	70	19	7.4
Base Flow	Grab	8/17/2005	9:40	05-A28930	17	112	<0.2	0.027	0.414	140	22	214
Storm Flow	Grab	9/13/2005	9:40	05-A32131	157	184	1.12	0.318	0.557		90	
Storm Flow	Grab	9/14/2005	9:45	05-A32323	326	284	6.40	0.353	0.632	18000	110	
Storm Flow	Grab	9/16/2005	8:15	05-A32875	194	108	5.86	0.360	0.489		39	
Storm Flow	Grab/DUP	9/16/2005	8:15	05-A32874	194	112			0.490		60	
Storm Flow	Grab	9/27/2005	9:30	05-A34114	295	123	10.40	0.325	0.465		38	
Base Flow	Grab	10/17/2005	9:45	05-A37346	208	41	9.73	0.258	0.306	300	18	
Base Flow	Grab	10/17/2005	9:45	05-A37355	208							5
Base Flow	Grab	11/21/2005	10:40	05-A43206	140	7	9.86	0.280	0.328		6	14.9
Base Flow	Grab	12/22/2005	10:30	05-A46577	334	5	12.30	0.246	0.267		9	5.2

Flow measured in Cubic Feet per second (ft³/sec)

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

FLOW TYPE	SAMP TYPE	DATE	TIME	LAB SAMPLE ID #	FLOW (ft ³ /sec)	TSS MG/L	N-NO ₂ +NO ₃ MG/L	P-PO ₄ MG/L	TP MG/L	FECAL COL. /100ML	TURBIDITY NTU
Base Flow	Grab	3/31/2005	9:05	05-A8096		6	3.35	0.070	0.119		6
Storm Flow	Grab	4/13/2005	9:25	05-A9872	92	59	21.00	0.146	0.242		18
Storm Flow	Grab	4/14/2005	9:35	05-A10038	74	24	19.80	0.098	0.130		11
Base Flow	Grab	4/26/2005	9:15	05-A11663	36	10	18.60	0.020	0.035	140	8
Storm Flow	Grab	5/16/2005	9:15	05-A14842	65	28	21.30	0.045	0.079		12
Storm Flow	Grab	5/18/2005	10:45	05-A15358	88	60	22.20	0.141	0.192		22
Base Flow	Grab	5/24/2005	8:40	05-A16163	51	42	21.80	0.062	0.097	220	16
Storm Flow	Grab	6/16/2005	11:15	05-A19502	57	66	21.80		0.133		
Base Flow	Grab	6/28/2005	9:45	05-A20892	24	62	15.80	0.073	0.114	1700	19
Base Flow	Grab	7/29/2005	8:15	05-A26132	8	36	2.47	0.243*	0.231*	910	16
Base Flow	Grab	8/17/2005	10:15	05-A28934	3	24	0.66	0.062	0.105	260	14
Storm Flow	Grab	9/13/2005	10:15	05-A32132	71	314	6.33	0.548	0.950		110
Storm Flow	Grab	9/14/2005	10:20	05-A32324	104	101	12.00	0.298	0.392	17000	28
Storm Flow	Grab	9/16/2005	9:05	05-A32876	58	18	11.60	0.343	0.377		9
Base Flow	Grab	10/17/2005	10:15	05-A37347	27	<2	19.70	0.046	0.053	200	7

*This is accurate verified and reported MVTL

Flow measured in Cubic Feet per second (ft³/sec)

CHEMICAL DATA - Analytes tested for in a lab, 2005 - MVTL, New Ulm

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

FLOW TYPE	SAMP TYPE	DATE	TIME	LAB SAMPLE ID #	FLOW (ft ³ /sec)	TSS MG/L	N-NO ₂ +NO ₃ MG/L	P-PO ₄ MG/L	TP MG/L	FECAL COL. /100ML	TURBIDITY NTU
Base Flow	Grab	4/26/2005	10:50	05-A11665	54	5	2.53	0.010	0.041	30	7
Base Flow	Grab	5/24/2005	10:20	05-A16165	40	10	2.71	<0.005	0.036	170	8
Base Flow	Grab	6/8/2005	11:00	05-A18104	75	43	6.81	0.038	0.076	1600	15
Base Flow	Grab	6/27/2005	10:45	05-A20709	79	62	7.07	0.103	0.176	1000	24
Base Flow	Grab	7/5/2005	11:30	05-A21727	42	25	3.42	0.067	0.088	130	16
Base Flow	Grab	7/29/2005	11:00	05-A26134	12	23	0.66	0.093	0.129	1000	15
Base Flow	Grab	8/17/2005	11:55	05-A28936	2	12	0.57	0.027	0.056	350	8
Storm Flow	Grab	9/13/2005	11:45	05-A32134	59	128	2.02	0.106	0.195		80
Base Flow	Grab	10/17/2005	11:45	05-A37349	83	11	4.75	0.033	0.059	220	9

Flow measured in Cubic Feet per second (ft³/sec)

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

FLOW TYPE	SAMP TYPE	DATE	TIME	LAB SAMPLE ID #	FLOW (ft ³ /sec)	TSS MG/L	N-NO ₂ +NO ₃ MG/L	P-PO ₄ MG/L	TP MG/L	FECAL COL. /100ML	TURBIDITY NTU
Base Flow	Grab	3/31/2005	9:45	05-A8097		12	0.82	0.079	0.152		8
Storm Flow	Grab	4/13/2005	10:30	05-A9873		68	9.38	0.102	0.197		23
Storm Flow	Grab	4/14/2005	10:35	05-A10039		62	8.96	0.097	0.153		17
Base Flow	Grab	4/26/2005	10:05	05-A11664	26	15	5.00	0.018	0.047	55	8
Storm Flow	Grab	5/16/2005	10:10	05-A14843	53	<2	10.80	0.028	0.091		15
Storm Flow	Composite	5/16/2005	10:20	05-A14844		410	11.20	0.032	0.612		200
Base Flow	Grab	5/24/2005	9:40	05-A16164	37	46	7.39	0.039	0.111	230	20
Base Flow	Grab	6/8/2005	10:15	05-A18103	79	164	12.20	0.107	0.176	4000	38
Storm Flow	Composite	6/16/2005	10:15	05-A19501		2430	12.80		1.600		
Base Flow	Grab	6/27/2005	10:00	05-A20708	29	35	6.28	0.090	0.134	1200	16
Base Flow	Grab	7/5/2005	10:45	05-A21726	10	34	2.22	0.049	0.084	800	15
Base Flow	Grab	7/29/2005	10:15	05-A26133	3	26	0.27	0.057	0.101	1500	13
Base Flow	Grab	8/17/2005	11:00	05-A28935	1	19	<0.2	0.026	0.092	330	10
Storm Flow	Grab	9/13/2005	11:00	05-A32133	15	53	1.04	0.217	0.302		19
Storm Flow	Grab	9/14/2005	11:05	05-A32325	85	127	1.90	0.150	0.252	>60000	39
Storm Flow	Grab	9/16/2005	9:50	05-A32877	47	51	4.84	0.128	0.184		23
Base Flow	Grab	10/17/2005	11:05	05-A37348	28	18	7.21	0.027	0.048	220	12

Flow measured in Cubic Feet per second (ft³/sec)