

## FIELD DATA - Measurements taken on site, 2014

RR1 - Primary Lower Redwood River at Redwood CR17 near Redwood Falls

Non-impacted stream/Western Corn Belt Plains

STORET CODE - S001-679

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1	Conductivity
Baseflow	1/24/2014		9:45					
Baseflow	2/28/2014		11:00				86+	
Snowmelt	3/13/2014		9:45	0.3	11.32	7.64	25	767
Snowmelt	3/17/2014		8:40	0.2	12.15		36	626
Snowmelt	3/20/2014		10:15	0.3	12.43	7.82	42	696
Snowmelt	3/28/2014		10:15			8.18	48	
Snowmelt	4/9/2014		10:05	7.1	10.86	8.21	19	974
Baseflow	4/21/2014		9:50	14.2	11.23	9.07	18	1380
Storm Event	5/1/2014		10:30	6.2	12.11	8.33	46	1202
Storm Event	5/3/2014		11:55	10.7	12.65	8.78	36	1262
Storm Event	5/5/2014		11:45	12.2	13.08	8.70	36	1286
Storm Event	5/13/2014		10:00	10.2	10.01	8.31	19	1122
Storm Event	5/15/2014		11:30	11.0	10.01	8.50	15	1229
Storm Event	5/16/2014		9:00	9.6	10.24	8.79	16	1268
Base	5/30/2014		8:55	23.0	7.09	8.21	24	1128
Storm Event	6/2/2014		10:45	20.7	6.81	7.88	5	787
Storm Event	6/3/2014		9:45	20.0	7.36	8.07	8	1062
Storm Event	6/6/2014		10:00	19.9	7.96	8.15	8	1245
Storm Event	6/8/2014		13:15	19.1	8.04	7.92	6	1004
Storm Event	6/12/2014		10:10	18.9	7.84	8.18	9	1263
Storm Event	6/15/2014		12:45	17.0	8.14	8.01	4	982
Storm Event	6/16/2014		10:15	19.0	6.88	8.01	4	648
Storm Event	6/18/2014		9:45	20.4	6.53	7.75	11	748
Storm Event	6/19/2014		11:05	21.0	6.11	7.63	3	508
Storm Event	6/20/2014		10:50	22.1	5.21	7.63	9	542
Storm Event	6/22/2014		12:50	24.4	5.24	7.73	28	656
Storm Event	6/26/2014		11:10	23.8	6.24	7.95	55	802
Base	7/7/2014		10:50	25.0	7.13	8.17	14	1131
Base	7/30/2014		10:35	21.5	8.34	8.45	18	1150
Base	8/13/2014		10:35	21.6	9.44	8.66	24	1331
Base	8/29/2014		9:25	21.5	8.54	8.57	18	1376
Base	9/16/2014		10:05	13.6	11.98	9.04	19	1397
Base	9/29/2014		10:05	19.0	8.56	8.95	27	1797
Base	10/15/2014		10:05	10.1	11.19	8.49	44	1828
Base	11/10/2014		11:10	1.7	13.50	8.72	>100	2003
Base	12/29/2014		9:40					

## FIELD DATA - Measurements taken on site, 2014

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	Date	FLOW	Time	Temp ©	DO	pH	TT 1	Conductivity
Snowmelt	3/11/2014		12:10	1.9	11.99	7.92	6	940
Snowmelt	3/13/2014		10:45	3.8	12.01	7.91	45	1226
Snowmelt	3/20/2014		11:15	4.8	12.46	8.12	65	1686
Snowmelt	3/28/2014		9:20	0.9	13.42	8.17	48	1244
Base	4/9/2014		11:05	9.2	11.15	8.40	23	1219
Base	4/21/2014		10:45	14.7	11.64	8.52	69	1500
Storm Event	4/29/2014		11:30	7.2	11.40	8.02	33	1341
Storm Event	5/1/2014		11:30	6.5	11.67	8.36	32	1258
Storm Event	5/3/2014		12:45	13.0	11.62	8.48	47	1299
Storm Event	5/13/2014		10:55	10.3	10.36	8.35	23	1132
Storm Event	5/16/2014		10:00	8.8	11.21	8.60	41	1250
Base	5/30/2014		10:05	23.2	7.70	8.27	60	1393
Storm Event	6/2/2014		11:35	23.1	7.91	8.18	40	1244
Storm Event	6/4/2014		11:35	20.0	8.02	8.18	17	1123
Storm Event	6/6/2014		11:35	19.7	7.94	8.17	7	1025
Storm Event	6/9/2014		12:00	17.2	8.57	8.19	12	1106
Storm Event	6/15/2014		13:35	18.5	7.77	7.83	2	580
Storm Event	6/16/2014		11:35	19.3	8.26	7.97	3	648
Storm Event	6/18/2014		11:00	19.4	8.23	8.08	3	686
Storm Event	6/22/2014		13:45	23.3	7.56	8.13	8	775
Base	7/9/2014		11:20	22.1	8.22	8.35	24	1141
Base	7/30/2014		11:50	23.7	8.96	8.45	57	1219
Base	8/13/2014		11:55	23.8	9.94	8.52	52	1488
Base	8/29/2014		10:55	22.4	11.59	8.52	>100	1805
Base	9/16/2014		11:00	14.9	11.76	8.55	>100	2128
Base	9/29/2014		11:00	18.7	10.67	8.56	>100	2650
Base	10/10/2014		9:45	10.1	9.81	8.42	>100	2587

## FIELD DATA - Measurements taken on site, 2013

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

STORET CODE - S000-696

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1	Conductivity
Snowmelt	3/11/2014		11:30	0.4	12.56	7.70	28	654
Snowmelt	3/13/2014		11:30	0.4	12.16	7.74	52	607
Snowmelt	3/20/2014		12:00	0.7	12.81	8.05	63	625
Snowmelt	3/28/2014		8:30				58	
Base	4/9/2014		11:40	7.8	11.70	8.36	28	792
Base	4/21/2014		11:25	14.0	11.90	8.45	53	912
Storm Event	4/29/2014		12:00	5.4	12.21	8.35	62	988
Storm Event	5/1/2014		12:05	4.9	12.29	8.39	53	1015
Storm Event	5/3/2014		13:25	12.1	13.57	8.59	70	975
Storm Event	5/13/2014		11:30	8.4	11.58	8.43	29	995
Storm Event	5/16/2014		10:50	6.6	13.18	8.66	76	962
Base	5/30/2014		11:15	23.1	9.67	8.34	>100	895
Storm Event	6/2/2014		12:15	20.9	7.98	8.09	16	941
Storm Event	6/4/2014		12:15	19.0	8.71	8.30	26	956
Storm Event	6/6/2014		12:10	18.2	8.41	8.05	5	790
Storm Event	6/12/2014		11:25	17.6	8.65	8.27	18	916
Storm Event	6/15/2014		14:15	17.8	7.66	7.80	3	540
Storm Event	6/16/2014		12:10	18.8	7.67	7.77	5	577
Storm Event	6/18/2014		11:40	18.8	7.51	7.86	4	622
Storm Event	6/22/2014		14:20	22.8	7.28	8.06	14	723
Base	7/9/2014		11:55	20.9	8.88	8.28	30	825
Base	7/30/2014		12:30	21.0	9.09	8.22	41	857
Base	8/13/2014		12:30	21.7	9.40	8.48	41	838
Base	8/29/2014		11:30	21.7	8.95	8.25	95	927
Base	9/16/2014		11:35	12.3	10.91	8.42	>100	961
Base	9/29/2014		11:40	16.8	8.46	8.16	>100	1083
Base	10/10/2014		10:45	7.5	10.84	8.14	>100	1148