

FIELD DATA - Measurements taken on site, 2010**PLC001 - Primary Lower Cottonwood River near New Ulm****STORET CODE - S001-918**

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1
Base Flow	1/29/2010		13:40	0.0	13.82	8.13	60+
Base Flow	2/11/2010		13:30	1.3	N/A	7.99	60+
Snowmelt Flow	3/16/2010		15:10	0.8	N/A	8.09	4.2
Snowmelt Flow	3/17/2010		15:45	1.2	13.34	8.04	4.1
Snowmelt Flow	3/19/2010		13:30	2.4	12.54	8.13	4.4
Snowmelt Flow	3/23/2010		14:05	4.3	11.95	8.18	6.1
Snowmelt Flow	3/25/2010		14:00	5.5	11.01	8.26	7.6
Base Flow	4/5/2010		16:10	10.7	10.36	8.43	15.7
Base Flow	4/13/2010		14:30	13.0	10.30	8.32	19.7
Base Flow	4/19/2010		14:55	14.6	10.08	8.34	26.9
Base Flow	4/27/2010		15:45	14.6	10.64	8.35	45.3
Base Flow	5/5/2010		16:00	13.5	10.67	8.37	60+
Storm Flow	5/13/2010		14:50	8.7	10.20	8.26	18.3
Storm Flow	5/19/2010		16:00	18.6	8.93	8.29	27.2
Base Flow	5/27/2010		15:20	22.8	9.80	8.32	39.5
Base Flow	6/2/2010		15:45	20.3	E5	8.33	48.9
Storm Flow	6/11/2010		13:00	19.4	8.59?	8.26	25.4
Storm Flow	6/14/2010		13:40	16.7	8.56?	8.19	9.3
Storm Flow	6/15/2010		15:50	E9	E4	8.16	8.8
Storm Flow	6/18/2010		12:15	20.6	7.48	8.19	12.4
Storm Flow	6/23/2010		11:40	23.5	7.19	8.30	15.3
Storm Flow	6/28/2010		15:40	20.7	7.37	7.98	4.0
Storm Flow	6/29/2010		14:35	20.7	7.02	8.00	5.7
Storm Flow	6/30/2010		13:45	20.8	7.72	7.78	7.0
Storm Flow	7/8/2010		14:40	E9	E4	8.23	13.1
Base Flow	7/14/2010		16:25	E9	E4	8.30	15.3
Base Flow	7/26/2010		15:40	E9	E4	8.22	11.3
Base Flow	8/5/2010		15:40	E9	E4	8.31	23.5
Base Flow	8/17/2010		16:25			8.27	22.7
Base Flow	8/24/2010		14:40			8.48	27.2
Base Flow	8/31/2010		16:30	27.2	12.05	8.78	15.0
Storm Flow	9/2/2010		14:35	22	11.31	8.72	9.6
Storm Flow	9/3/2010		15:15	19.5	9.79	8.43	8.4
Storm Flow	9/7/2010		15:00	18.9	8.33	8.29	9.3
Storm Flow	9/16/2010		15:40	16.7	9.23	8.43	16.9
Storm Flow	9/17/2010		12:55	16.8	8.82	8.36	11.5
Storm Flow	9/21/2010		14:05	18.9	8.48	8.34	16.1
Storm Flow	9/23/2010		15:25	17.8	8.03	8.19	3.7
Storm Flow	9/24/2010		12:15	16.2	7.77	7.93	3.4
Storm Flow	9/27/2010		15:00	16.3	7.73	7.92	4.6
Storm Flow	9/30/2010		12:55			8.03	6.9
Storm Flow	10/7/2010		11:10	13.9	9.23	8.25	11.7
Storm Flow	10/14/2010		11:25	13.6	9.35	8.37	19.4

Base Flow	10/22/2010		11:30	10.2	9.91	8.46	30.0
Base Flow	11/23/2010		11:00	0.5	12.77	8.43	60+
Base Flow	12/9/2010		13:20	1.5	11.68	8.62	60+

Issues with the DO meter resulted in missed (E9, E5 & E4) or questionable data (?)

FIELD DATA - Measurements taken on site, 2010

PLS005 - Primary Lower Sleepy Eye Creek near Cobden

STORET CODE - S001-919

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1
Snowmelt	3/16/2010		14:25	0.4	13.82	8.03	24.0
Snowmelt	3/17/2010		14:15	1.3	12.34	7.92	18.8
Snowmelt	3/23/2010		13:20	2.9	11.26	8.09	22.6
Base Flow	4/5/2010		14:30	9.5	10.89	8.42	60+
Base Flow	4/27/2010		14:00	12.1	13.08	8.38	60+
Base Flow	5/5/2010		14:10	10.8	12.44	8.48	60+
Base Flow	5/19/2010		14:10	15.5	10.62	8.26	60+
Base Flow	6/2/2010		14:30	17.2	10.28	8.31	55.4
Storm Flow	6/15/2010		14:30	15.7	8.04?	7.97	38.8
Storm Flow	6/28/2010		14:45	E9	E4	7.73	15.0
Storm Flow	6/29/2010		13:30	E9	E4	7.81	24.5
Storm Flow	7/8/2010		13:35	E9	E4	8.12	32.1
Base Flow	7/26/2010		14:55	E9	E4	7.97	32.8
Base Flow	8/5/2010		14:25	E9	E4	8.30	
Base Flow	8/24/2010		13:40	E9	E4	8.35	60+
Storm Flow	9/3/2010		13:50	18.1	7.12	7.81	17.1
Storm Flow	9/16/2010		14:55	15.3	8.66	8.14	17.8
Storm Flow	9/17/2010		12:00	15.5	8.27	8.03	20.2
Storm Flow	9/21/2010		13:05	19.0	8.20	8.19	31.1
Storm Flow	9/23/2010		14:20	17.1	6.79	7.73	6.9
Storm Flow	9/24/2010		10:55	15.1	6.99	7.73	8.6
Storm Flow	9/27/2010		14:15	15.4	6.72	7.75	19.7
Storm Flow	9/30/2010		12:00			7.88	26.0

Issues with the DO meter resulted in missed (E9 & E4) or questionable data (?)

FIELD DATA - Measurements taken on site, 2010**PLC010 - Primary Lower Cottonwood River near Leavenworth****STORET CODE - S001-920**

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1
Snow melt	3/16/2010		14:00	0.1	15.15	8.08	11.2
Snow melt	3/17/2010		14:00	0.5	13.44	8.00	9.0
Snow melt	3/23/2010		13:10	4.7	11.89	8.20	11.9
Base Flow	4/5/2010		14:15	10.2	10.62	8.34	19.0
Base Flow	4/27/2010		13:45	12.9	10.29	8.30	55.2
Base Flow	5/5/2010		13:55	12.1	10.29	8.38	60+
Base Flow	5/19/2010		13:50	17.3	8.70	8.25	37.9
Base Flow	6/2/2010		14:10	18.7	8.54	8.26	44.3
Storm Flow	6/15/2010		14:15	E9	E4	8.10	15.7
Storm Flow	6/28/2010		14:25	21.1	6.47	7.88	5.7
Storm Flow	6/29/2010		13:15	20.6	6.72	7.97	12.3
Storm Flow	6/30/2010		12:45	21.0	6.87	7.82	13.0
Storm Flow	7/8/2010		13:20	22.9	6.96	8.13	12.4
Base Flow	7/26/2010		14:40	E9	E4	8.14	10.7
Base Flow	8/5/2010		14:10	E9	E4	8.28	18.9
Base Flow	8/24/2010		13:25	E9	E4	8.61	29.1
Base Flow	9/16/2010		14:40	16.2	9.01	8.34	17.4
Storm Flow	9/23/2010		14:05	17.3	7.22	7.90	4.3
Storm Flow	9/24/2010		10:40	16.1	7.20	7.81	4.7
Storm Flow	9/27/2010		13:55	16.5	6.85	7.86	11.4
Storm Flow	9/30/2010		11:45			7.99	15.3

Issues with the DO meter resulted in missed (E9 & E4) data.

FIELD DATA - Measurements taken on site, 2010**PMC020 - Primary Middle Cottonwood River near Lamberton****STORET CODE - S002-247**

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1
Snowmelt	3/16/2010		13:20	0.1		8.12	18.2
Snowmelt	3/17/2010		12:50				
Snowmelt	3/23/2010		12:30	4.7	10.95	8.18	18.5
Base Flow	4/5/2010		13:20	9.9	10.55	8.34	24.0
Base Flow	4/27/2010		13:10	12.1	11.24	8.25	57.8
Base Flow	5/5/2010		13:20	11.6	11.14	8.32	60.0
Base Flow	5/19/2010		13:10	16.4	9.20	8.19	37.7
Base Flow	6/2/2010		13:30	18.1	8.61	8.21	42.1
Storm Flow	6/15/2010		13:35	E9	E4	7.94	27.1
Storm Flow	6/28/2010		13:45	20.3	E4	7.91	19.0
Storm Flow	6/29/2010		12:35	E9	E4	7.92	28.5
Base Flow	7/8/2010		12:40	22.0	6.68	8.03	14.0
Base Flow	7/26/2010		14:05	E9	E4	7.97	11.8
Base Flow	8/5/2010		13:05	E9	E4	8.13	13.8
Base Flow	8/24/2010		12:45	E9	E4	8.34	29.7
Storm Flow	9/3/2010		13:05	18.6	7.25	7.91	6.8
Storm Flow	9/16/2010		14:00	15.6	8.47	8.17	17.5
Storm Flow	9/17/2010		11:20	15.1	8.35	8.11	17.2
Storm Flow	9/21/2010		12:30	18.0	7.79	8.11	28.4
Storm Flow	9/23/2010		13:30	17.0	6.69	7.78	4.0
Storm Flow	9/24/2010		10:40				7.9
Storm Flow	9/27/2010		13:15	16.4	5.77	7.77	17.4
Storm Flow	9/30/2010		11:05			7.93	35.4

Issues with the DO meter resulted in missed (E9 & E4) data.

FIELD DATA - Measurements taken on site, 2010**TUP - Tertiary Plum Creek near Walnut Grove****STORET CODE - S001-913**

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1
Snowmelt	3/16/2010		12:45	0.1		8.20	17.9
Snowmelt	3/17/2010		12:30				
Snowmelt	3/23/2010		12:00	3.6	11.68	8.28	9.3
Base Flow	4/5/2010		12:25	8.8	9.80	8.35	24.8
Base Flow	4/27/2010		12:40	11.1	10.29	8.30	60+
Base Flow	5/5/2010		12:50	11.2	10.87	8.34	60+
Base Flow	5/19/2010		12:45	15.4	9.34	8.22	60+
Base Flow	6/2/2010		13:00	E9		8.30	60+
Storm Flow	6/15/2010		13:05	15.6	8.54?	8.10	21.6
Storm Flow	6/28/2010		13:10	18.3	E5	8.13	12.8
Storm Flow	6/29/2010		12:05	17.7	7.80	8.13	15.5
Base Flow	7/8/2010		12:10	E9	E5	8.19	22.1
Base Flow	7/26/2010		13:35	E9	E5	8.18	24.9
Base Flow	8/5/2010		12:40	E9	E5	8.21	52.0
Base Flow	8/24/2010		12:15	E9	E5	8.20	60+
Storm Flow	9/16/2010		13:30	15.2	8.85	8.23	19.2
Storm Flow	9/17/2010		10:55	14.8	8.99	8.25	20.0
Storm Flow	9/21/2010		12:00	17.9	8.20	8.22	35.6
Storm Flow	9/23/2010		12:50	17.2	7.65	7.88	3.5
Storm Flow	9/24/2010		10:15				7.4
Storm Flow	9/27/2010		12:35	15.2	7.96	7.99	11.1

Issues with the DO meter resulted in missed (E9 & E5) or questionable data (?)