

**PLC001 - Primary Lower Cottonwood River near New Ulm - Non-impacted stream/Western Corn Belt Plains**

FLOW TYPE	SAMP TYPE	DATE	TIME	LAB	FLOW ft <sup>3</sup> /s	TSS MG/L	N-NO2+			FECAL	TURBIDITY NTU
				SAMPLE ID #			NO3 MG/L	P-PO4 MG/L	TP MG/L	COLIFORM /100ML	
Base Flow	Grab	1/12/2004	13:15	04-A722	34	6	1.87	0.010	0.024		7
Base Flow	Grab	2/18/2004	14:05	04-A3719	21	5	1.71	0.008	0.030		
Base Flow	Grab	3/24/2004	13:00	04-A6855	299	43	1.97	0.077	0.144		12
Base Flow	Grab	4/15/2004	12:45	04-A9560	97	47	<0.2	0.010	0.099	<10	12
Fecal	Grab	5/5/2004	13:55	04-A13075	99					560	
Base Flow	Grab	5/5/2004	13:55	04-A13066	99	14	<0.2	<0.005	0.060		8
Storm Flow	Grab	5/19/2004	12:30	04-A15139	204	84	<0.2	0.020	0.146		28
Storm Flow	Grab	5/24/2004	14:30	04-A15626	423	162	4.92	0.022	0.159		50
Storm Flow	Composite	5/27/2004	14:30	04-A16296	1,020	318	10.30	0.040	0.302		110
Storm Flow	Grab	5/27/2004	14:30	04-A16304	1,020	158	15.80	0.081	0.191		80
Storm Flow	Grab	5/30/2004	17:39	04-A16744	3,410		8.30		1.170		
Storm Flow	Composite	6/2/2004	15:10	04-A16858	5,980	2100	9.75	0.199	1.220		330
Storm Flow	Composite	6/3/2004	14:30	04-A17054	5,160	510	9.20	0.220	0.600		170
Storm Flow	Grab	6/3/2004	14:15	04-A17053	5,160	206	9.67	0.194	0.330		110
Storm Flow	Grab	6/10/2004	14:30	04-A17998	2,350	284	11.20	0.315	0.410		120
Storm Flow	Composite	6/14/2004	14:20	04-A18337	4,170	1430	9.99	0.273	0.830		190
Storm Flow	Grab	6/15/2004	13:55	04-A18491	3,490	190	10.80	0.211	0.377		80
Base Flow	Grab	6/29/2004	15:05	04-A20654	600	88	12.40	0.094	0.162	800	31
Storm Flow	Grab	7/12/2004	13:55	04-A22348	861	162	12.10	0.114	0.217		80
Base Flow	Grab	7/28/2004	12:20	04-A25113	314	123	2.84/4.73*	0.035	0.148	300	70/38*
Base Flow	Grab/DUP	7/28/2004	12:20	04-A25114	314	117	4.80	0.037	0.147	700	34
Base Flow	Grab	8/25/2004	14:45	04-A28820	98	27	2.12	0.008	0.046	60	14
Base Flow	Grab	9/15/2004	15:00	04-A31175	206	334	0.63	0.054	0.238		160
Base Flow	Grab	10/25/2004	10:40	04-A37265	189	5	8.02	0.023	0.032	50	4
Base Flow	Grab	11/16/2004	12:00	04-A40371	144	2	7.70	0.011	0.016		3
Base Flow	Grab	12/9/2004	10:30	04-A42788	147	4	7.91	0.006	0.048		3

\*retested

Flow measured in Cubic Feet per second (ft<sup>3</sup>/sec)

**PLC010 - Primary Lower Cottonwood River near Leavenworth - Non-impacted stream/Western Corn Belt Plains**

<i>FLOW TYPE</i>	<i>SAMP TYPE</i>	<i>DATE</i>	<i>TIME</i>	<i>LAB</i>	<i>FLOW</i> <i>ft<sup>3</sup>/s</i>	<i>TSS</i> <i>MG/L</i>	<i>N-NO2+</i>			<i>FECAL</i>	<i>TURBIDITY</i> <i>NTU</i>
				<i>SAMPLE ID #</i>			<i>NO3</i> <i>MG/L</i>	<i>P-PO4</i> <i>MG/L</i>	<i>TP</i> <i>MG/L</i>	<i>COLIFORM</i> <i>/100ML</i>	
Base Flow	Grab	4/15/2004	11:10	04-A9558	75	42	<0.2	0.016	0.131	60	13
Fecal	Grab	5/5/2004	13:05	04-A13074	68					10	
Base Flow	Grab	5/5/2004	13:05	04-A13065	68	6	<0.2	<0.005	0.066		6
Storm Flow	Grab	5/19/2004	12:00	04-A15138	163	40	2.37	<0.005	0.106		12
Storm Flow	Grab	5/24/2004	13:30	04-A15625	308	121	4.46	0.042	0.183		320
Storm Flow	Composite	5/27/2004	13:30	04-A16295	685	632	8.63	0.065	0.626		130
Storm Flow	Grab	5/27/2004	13:30	04-A16303	685	180	14.20	0.074	0.212		70
Storm Flow	Grab	5/30/2004	16:52	04-A16743	1,482		9.33		0.557		
Storm Flow	Composite	6/2/2004	14:10	04-A16857	3,905	660	10.30	0.132	0.460		170
Storm Flow	Grab	6/3/2004	13:40	04-A17052	2,940	92	8.98	0.145	0.240		39
Storm Flow	Grab	6/14/2004	13:40	04-A18336	2,431	108	9.67	0.194	0.319		39
Storm Flow	Grab	6/15/2004	13:05	04-A18490	2,306	96	9.40	0.148	0.280		30
Base Flow	Grab	6/29/2004	14:20	04-A20653	412	80	11.10	0.084	0.137	600	26
Storm Flow	Grab	7/12/2004	12:45	04-A22346	1,420	432	9.90	0.154	0.480		160
Base Flow	Grab	7/28/2004	10:45	04-A25111	221	78	5.50	0.036	0.159	1100	23
Base Flow	Grab	8/25/2004	13:45	04-A28819	122	40	1.86	0.009	0.094	2000	16
Base Flow	Grab	9/15/2004	14:15	04-A31174	184	118	0.36	0.013	0.199		38

Flow measured in Cubic Feet per second (ft<sup>3</sup>/sec)

**PLS005 - Primary Lower Sleepy Eye Creek near Cobden - Non-impacted stream/Western Corn Belt Plains**

<i>FLOW TYPE</i>	<i>SAMP TYPE</i>	<i>DATE</i>	<i>TIME</i>	<i>LAB</i>	<i>FLOW</i> <i>ft<sup>3</sup>/s</i>	<i>TSS</i> <i>MG/L</i>	<i>N-NO2+</i>			<i>FECAL</i>	
				<i>SAMPLE ID #</i>			<i>NO3</i> <i>MG/L</i>	<i>P-PO4</i> <i>MG/L</i>	<i>TP</i> <i>MG/L</i>	<i>COLIFORM</i> <i>/100ML</i>	<i>TURBIDITY</i> <i>NTU</i>
Base Flow	Grab	4/15/2004	11:40	04-A9559	5	4	<0.2	0.038	0.086	82	8
Fecal	Grab	5/5/2004	12:50	04-A13073	6					330	
Base Flow	Grab	5/5/2004	12:50	04-A13064	6	10	<0.2	0.040	0.105		10
Storm Flow	Grab	5/19/2004	11:45	04-A15137	25	44	6.18	0.075	0.149		17
Storm Flow	Grab	5/24/2004	12:35	04-A15624	311	324	13.90	0.138	0.436		100
Storm Flow	Grab	5/27/2004	13:10	04-A16302	127	16	20.50	0.089	0.111		8
Storm Flow	Grab	5/30/2004	16:37	04-A16742	2,344		6.54		0.712		
Storm Flow	Grab	6/1/2004	16:00	04-A16583	2,172	156	9.12	0.489	0.489		110
Storm Flow	Grab	6/2/2004	13:45	04-A16856	1,160	156	11.20	0.359	0.410		90
Storm Flow	Grab	6/3/2004	13:15	04-A17051	809	80	12.30	0.323	0.360		80
Storm Flow	Grab	6/14/2004	13:05	04-A18335	1,072	80	12.10	0.308	0.370		38
Storm Flow	Grab	6/15/2004	12:35	04-A18489	674	64	14.50	0.257	0.342		29
Base Flow	Grab	6/29/2004	14:10	04-A20652	86	23	20.90	0.087	0.107	800	11
Storm Flow	Grab	7/12/2004	13:10	04-A22347	169	76	17.50	0.127	0.193		20
Base Flow	Grab	7/28/2004	11:15	04-A25112	28	5	10.10	0.039	0.059	1400	5
Base Flow	Grab	8/25/2004	13:15	04-A28818	14	7	1.52	0.019	0.044	1400	8
Base Flow	Grab	9/15/2004	13:45	04-A31173	127	42	3.44	0.188	0.259		17

Flow measured in Cubic Feet per second (ft<sup>3</sup>/sec)

**PMC020 - Primary Middle Cottonwood River near Lambertton - Non-impacted stream/Western Corn Belt Plains**

<i>FLOW TYPE</i>	<i>SAMP TYPE</i>	<i>DATE</i>	<i>TIME</i>	<i>LAB</i>	<i>FLOW</i> <i>ft<sup>3</sup>/s</i>	<i>TSS</i> <i>MG/L</i>	<i>N-NO2+</i>			<i>FECAL</i>	<i>TURBIDITY</i> <i>NTU</i>
				<i>SAMPLE</i> <i>ID #</i>			<i>NO3</i> <i>MG/L</i>	<i>P-PO4</i> <i>MG/L</i>	<i>TP</i> <i>MG/L</i>	<i>COLIFORM</i> <i>/100ML</i>	
Base Flow	Grab	4/15/2004	10:00	04-A9557	36	44	0.61	0.023	0.102	80	16
Fecal	Grab	5/5/2004	12:05	04-A13072	30					520	
Base Flow	Grab	5/5/2004	12:05	04-A13063	30	10	0.45	<0.005	0.060		10
Storm Flow	Grab	5/19/2004	11:15	04-A15136	73	44	2.01	0.022	0.107		16
Storm Flow	Composite	5/20/2004	12:30	04-A15360	68	144	2.81	0.005	0.185		33
Storm Flow	Composite	5/27/2004	12:15	04-A16294	414	676	10.70	0.066	0.580		120
Storm Flow	Grab	5/27/2004	12:15	04-A16301	414	90	13.00	0.080	0.164		27
Storm Flow	Grab	6/2/2004	12:45	04-A16855	2,432	68	7.90	0.191	0.220		29
Storm Flow	Grab	6/3/2004	12:15	04-A17050	2,163	42	8.29	0.162	0.190		24
Storm Flow	Grab	6/12/2004	14:50	04-A18327	1,741	224	6.40	-	0.454		120
Storm Flow	Grab	6/14/2004	12:10	04-A18334	2,036	45	7.81	0.177	0.256		18
Storm Flow	Grab	6/15/2004	11:40	04-A18488	1,747	40	7.68	0.122	0.214		16
Base Flow	Grab	6/29/2004	13:30	04-A20651	239	77	11.00	0.062	0.119	600	25
Storm Flow	Grab	7/12/2004	12:00	04-A22345	1,121	238	9.93	0.144	0.346		110
Base Flow	Grab	7/27/2004	13:15	04-A24796	64	57	6.38	0.015	0.125	420	22
Base Flow	Grab	8/23/2004	13:20	04-A28394	18	22	3.14	0.012	0.089	800	10
Storm Flow	Grab	9/15/2004	13:00	04-A31172	382	292	4.39	0.127	0.340		110
Base Flow	Grab	9/29/2004	13:10	04-A33254	116	35	9.72	0.072	0.125	1400	17

Flow measured in Cubic Feet per second (ft<sup>3</sup>/sec)

**TUP - Tertiary Plum Creek near Walnut Grove - Non-impacted stream/Western Corn Belt Plains**

FLOW TYPE	SAMP TYPE	DATE	TIME	LAB	FLOW ft <sup>3</sup> /s	TSS MG/L	N-NO2+			FECAL	
				SAMPLE ID #			NO3 MG/L	P-PO4 MG/L	TP MG/L	COLIFORM /100ML	TURBIDITY NTU
Base Flow	Grab	4/14/2004	14:40	04-A9458	14	5	2.68	0.007	0.025	10	4
Fecal	Grab	5/5/2004	11:35	04-A13071	11					300	
Base Flow	Grab	5/5/2004	11:35	04-A13062	11	7	2.57	<0.005	0.027		5
Storm Flow	Grab	5/19/2004	10:45	04-A15135	34	17	11.80	0.017	0.051		7
Storm Flow	Composite	5/20/2004	12:00	04-A15359	29	180	8.45	0.007	0.225		38
Storm Flow	Composite	5/27/2004	11:30	04-A16293	92	1400	17.10	0.059	0.889		160
Storm Flow	Grab	5/27/2004	11:30	04-A16300	92	74	17.40	0.057	0.132		24
Storm Flow	Grab	5/30/2004	14:07	04-A16741	739		5.78		0.799		
Storm Flow	Composite	5/30/2004	14:07	04-A16740	739		9.34		1.780		
Storm Flow	Grab	6/1/2004	15:15	04-A16582	418	192	11.80	0.299	0.416		100
Storm Flow	Grab	6/2/2004	12:10	04-A16854	358	220	12.40	0.320	0.195		100
Storm Flow	Grab	6/3/2004	10:45	04-A17049	295	144	12.90	0.155	0.290		90
Storm Flow	Grab	6/12/2004	14:20	04-A18326	502	204	9.62	-	0.419		120
Storm Flow	Composite	6/14/2004	11:45	04-A18333	257	1500	8.31	0.154	0.931		220
Base Flow	Grab	6/30/2004	11:15	04-A20917	63	45	15.20	0.036	0.077	1100	17
Storm Flow	Grab	7/12/2004	11:30	04-A22344	321	186	14.40	0.137	0.289		90
Base Flow	Grab	7/27/2004	12:35	04-A24795	29	17	9.62	0.047	0.067	800	8
Base Flow	Grab	8/23/2004	12:40	04-A28392	13	<2	7.22	0.023	0.044	1100	2.8
Storm Flow	Grab	9/15/2004	12:15	04-A31171	204	198	9.44	0.199	0.305		80
Base Flow	Grab	9/29/2004	12:30	04-A33253	65	21	12.30	0.061	0.077	520	8

Flow measured in Cubic Feet per second (ft<sup>3</sup>/sec)