

CHEMICAL DATA - Analytes tested for in a lab, 2010 - MVTL, New Ulm

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

STORET CODE - S001-918

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft ³ /sec)	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	N- NO2+N O3	P-PO4 MG/L	TP MG/L	E COLI /100ML	TURBIDITY NTU
									MG/L				
Base Flow	Grab	1/29/2010	13:40		10-A3622	3	3	1.3	6.97	0.053	0.070		3.5
Base Flow	Grab	2/11/2010	13:30		10-A5258	8	<2	1.0	6.88	0.057	0.070		2.6
Snowmelt Flow	Grab	3/16/2010	15:10		201005436	710	46	3.00	7.60	0.545*	1.130		290*
Snowmelt Flow	Grab	3/17/2010	15:45		201005685	630	36	3.11	7.70	0.502*	0.956		250*
Snowmelt Flow	Grab	3/19/2010	13:30		201005781	460	42	2.28	8.00	0.456*	0.764		200*
Snowmelt Flow	Grab	3/23/2010	14:05		10-A10401	301	26		9.41	0.199	0.468		130
Snowmelt Flow	Dup	3/23/2010	14:06		10-A10400	266	24		9.45	0.198^	0.460		130
Snowmelt Flow	Grab	3/25/2010	14:00		201006234	200	20	2.14	9.7^	0.235*	0.373		92*
Base Flow	Grab	4/5/2010	16:10		201007059	88	8.8	1.49	4.2^	0.109	0.179		51*
Base Flow	Grab	4/13/2010	14:30		10-A14095	65	11	1.9	8.55	0.022	0.114		34
Base Flow	Dup	4/13/2010	14:31		10-A14104	81	28		8.38	0.022	0.130		33
Base Flow	Grab	4/19/2010	14:55		10-A15383	49	7	0.9	9.85	0.016	0.094		21
Base Flow	Grab	4/27/2010	15:45		10-A17085	25	5	1.0	9.01	<0.005	0.052		8.1
Base Flow	Dup	4/27/2010	15:46		10-A17075	24	5		9.04	<0.005	0.051	8.5	10
Base Flow	Grab	5/5/2010	16:00		10-A18872	19	<2	1.1	8.92	<0.005	0.061		7.7
Base Flow	Dup	5/5/2010	16:01		10-A18869	16	<2		8.93	<0.005	0.049		7.2
Storm Flow	Grab	5/13/2010	14:50		10-A20646	132	16	0.8	13.30	0.026	0.183		63
Storm Flow	Grab	5/19/2010	16:00		10-A21909	52	7	1.5	12.90	0.015	0.092		28
Storm Flow	Dup	5/19/2010	16:01		10-A21900	58	8		12.90	0.014	0.106	18.7	26
Base Flow	Grab	5/27/2010	15:20		10-A23528	37	8	2.5	10.00	0.007	0.079		16
Base Flow	Grab	6/2/2010	15:45		10-A24399	24	<2	1.2	9.43	0.012	0.065		12
Base Flow	Dup	6/2/2010	15:46		10-A24390	26	<2		9.43	0.012	0.056		15
Storm Flow	Grab	6/11/2010	13:00		10-A26175	78	15	1.7	9.08	0.032	0.124		39
Storm Flow	Grab	6/14/2010	13:40		10-A26398	185	18	2.1	14.70	0.100	0.305^		99
Storm Flow	Grab	6/15/2010	15:50		10-A26886	156	20	1.7	15.20	0.113	0.303^		84
Storm Flow	Dup	6/15/2010	15:51		10-A26876	160	19		14.10	0.109	0.328^	613.1*	90
Storm Flow	Grab	6/18/2010	12:15		10-A27843	125	13	3.3	12.80	0.083	0.266^		70
Storm Flow	Grab	6/23/2010	11:40		10-A28504	117	15	1.7	9.54	0.048	0.195		60

Storm Flow	Grab	6/28/2010	15:40		10-A29426	430	39	2.4	9.05	0.169	0.532^		240
Storm Flow	Grab	6/29/2010	14:35		10-A29772	250	16	2.0	8.63	0.141	0.401^		150
Storm Flow	Grab	6/30/2010	13:45		10-A30129	169	12		9.27	0.152	0.270^		100
Storm Flow	Grab	7/8/2010	14:40		10-A31708	120	15		8.11	0.092	.266^	184.2	62
Base Flow	Grab	7/14/2010	16:25		10-A32961	81	43	1.4	7.48	0.087	0.226^		48
Base Flow	Grab	7/26/2010	15:40		10-A35266	154	19	1.8	7.22	0.134	0.297		84
Base Flow	Dup	7/26/2010	15:41		10-A35258	158	20		7.27	0.122	0.307		85
Base Flow	Grab	8/5/2010	15:40		10-A38049	62	11	1.4	4.72	0.058	0.162		35
Base Flow	Dup	8/5/2010	15:41		10-A38046	65	12		4.69	0.055	0.177	37.9	38
Base Flow	Grab	8/17/2010	16:25		10-A40206	63	14	1.4	4.55	0.008	0.087		36
Base Flow	Grab	8/24/2010	14:40		10-A41359	56	19	1.4	1.55	<0.005	0.066		26
Base Flow	Dup	8/24/2010	14:41		10-A41356	57	21		1.53	<0.005	0.078		24
Base Flow	Grab	8/31/2010	16:30		10-A42648	126	42	1.9	<0.2	<0.005	0.122		62
Storm Flow	Grab	9/2/2010	14:35		10-A43307	164	35	1.4	<0.2	<0.005	0.171		110
Storm Flow	Grab	9/3/2010	15:15		10-A43496	372	44		0.39	<0.005	0.430^		250
Storm Flow	Grab	9/7/2010	15:00		10-A43677	180	26	1.8	5.52	0.113	0.379^		120
Storm Flow	Grab	9/16/2010	15:40		10-A45924	99	15	1.1	8.17	0.074	0.176		53
Storm Flow	Dup	9/16/2010	15:41		10-A45921	94	13		8.13	0.090	0.179	461.1	58
Storm Flow	Grab	9/17/2010	12:55		10-A46103	181	23	2.0	10.10	0.099	0.261		90
Storm Flow	Grab	9/21/2010	14:05		10-A46479	97	15	1.7	8.32	0.084	0.185		51
Storm Flow	Grab	9/23/2010	15:25		10-A47296	624	64	3.4	7.17	0.158	0.742		340
Storm Flow	Dup	9/23/2010	15:26		10-A47287	790	93		7.14	0.166	0.816		340
Storm Flow	Grab	9/24/2010	12:15		10-A47437	506	68	2.6	3.61	0.208^	0.697		330
Storm Flow	Dup	9/24/2010	12:16		10-A47420	474	56		3.73	0.209^	0.678		340
Storm Flow	Grab	9/27/2010	15:00		10-A47687	360*	19	1.3	3.09	0.144	0.344		230
Storm Flow	Grab	9/30/2010	12:55		10-A48418	206	18	1.4	4.10	0.135	0.292		130
Storm Flow	Dup	9/30/2010	12:55		10-A48415	211	23		4.10	0.124	0.303		130
Storm Flow	Grab	10/7/2010	11:10		10-A49702	100	16	1.8	6.66	0.084	0.230^		60
Storm Flow	Grab	10/14/2010	11:25		10-A51117	62	7	1.4	8.03	0.067	0.152		36
Base Flow	Grab	10/22/2010	11:30		10-A52897	33	8	1.0	8.51	0.055	0.116		20
Base Flow	Grab	11/23/2010	11:00		10-A59115	17	6	1.4	10.50	0.038	0.065		11
Base Flow	Grab	12/9/2010	13:20		10-A61558	15	4	1.1	10.20	0.040	0.068		10

* Sample Exceeded Holding Time

^ Sample Diluted due to result above calibration or linear range

CHEMICAL DATA - Analytes tested for in a lab, 2010- MVTL, New Ulm

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

STORET CODE - S001-919

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft ³ /sec)	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	N-NO2+N O3 MG/L	P-PO4 MG/L	TP MG/L	E. COLI /100ML	TURB. NTU
Snowmelt	Grab	3/16/2010	14:25		10-A9110	60	10		6.92	0.822	0.944		34
Snowmelt	Grab	3/17/2010	14:15		10-A9365	56	6		7.44	0.572^	0.853		34
Snowmelt	Grab	3/23/2010	13:20		10-A10399	51	8		10.70	0.234^	0.452		22
Base Flow	Grab	4/5/2010	14:30		10-A12481	15	4		13.60	0.054	0.105		5.9
Base Flow	Grab	4/27/2010	14:00		10-A17074	4	<2		14.70	<0.005	0.031	86.2	3.2
Base Flow	Grab	5/5/2010	14:10		10-A18868	4	<2		14.70	0.005	0.037		3.1
Base Flow	Grab	5/19/2010	14:10		10-A21899	10	<2		18.20	0.016	0.049	29.5	4.5
Base Flow	Grab	6/2/2010	14:30		10-A24389	17	2		14.70	0.024	0.076		8.5
Storm Flow	Grab	6/15/2010	14:30		10-A26875	34	3		17.50	0.126	0.212^	2419.6*	17
Storm Flow	Grab	6/28/2010	14:45		10-A29423	31	5		10.50	0.246	0.309^		37
Storm Flow	Grab	6/29/2010	13:30		10-A29766	34	9		11.70	0.195	0.291^		23
Storm Flow	Grab	7/8/2010	13:35		10-A31707	35	7		13.80	0.094	0.178	579.4	17
Base Flow	Grab	7/26/2010	14:55		10-A35257	40	7		10.60	0.137	0.212		17
Base Flow	Grab	8/5/2010	14:25		10-A38045	15	4		9.17	0.076	0.148	435.2	6.2
Base Flow	Grab	8/24/2010	13:40		10-A41355	10	3		5.04	0.028	0.086		4.1
Storm Flow	Grab	9/3/2010	13:50		10-A43495	73	15		9.13	0.207^	0.282^		49
Storm Flow	Grab	9/16/2010	14:55		10-A45920	101	15		16.10	0.095	0.209	>2419.6	51
Storm Flow	Grab	9/17/2010	12:00		10-A46098	55	10		15.00	0.117	0.193		35
Storm Flow	Grab	9/21/2010	13:05		10-A46476	32	7		15.20	0.065	0.130		18
Storm Flow	Grab	9/23/2010	14:20		10-A47286	144	24		7.44	0.243^	0.468		130
Storm Flow	Grab	9/24/2010	10:55		10-A47419	75	12		4.25	0.227^	0.431		100
Storm Flow	Grab	9/27/2010	14:15		10-A47694	31	8		6.73	0.235^	0.287		30
Storm Flow	Grab	9/30/2010	12:00		10-A48414	25	5		9.09	0.176	0.241		20

* Sample Exceeded Holding Time

^ Sample Diluted due to result above calibration or linear range

CHEMICAL DATA - Analytes tested for in a lab, 2010 - MVTL, New Ulm

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

STORET CODE - S001-920

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft ³ /sec)	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	N- NO2+N	P-PO4 MG/L	TP MG/L	E.COLI /100ML	TURBIDITY NTU
									O3 MG/L				
Snowmelt	Grab	3/16/2010	14:00		10-A9109	153	21		8.11	0.245	0.496		97
Snowmelt	Grab	3/17/2010	14:00		10-A9364	178	22		7.96	0.188^	0.494		91
Snowmelt	Grab	3/23/2010	13:10		10-A10398	117	14		9.19	0.120	0.307		61
Base Flow	Grab	4/5/2010	14:15		10-A12479	75	12		7.01	0.040	0.164		42
Base Flow	Dup	4/5/2010	14:16		10-A12480	78	12		7.05	0.045	0.166		45
Base Flow	Grab	4/27/2010	13:45		10-A17073	19	3		8.05	0.007	0.052	49.6	8.8
Base Flow	Grab	5/5/2010	13:55		10-A18867	14	<2		7.84	<0.005	0.051		7.4
Base Flow	Grab	5/19/2010	13:50		10-A21896	42	6		10.90	0.013	0.069	45.0	17
Base Flow	Grab	6/2/2010	14:10		10-A24388	25	3		8.40	0.017	0.076		14
Storm Flow	Grab	6/15/2010	14:15		10-A26874	97	12		12.00	0.102	0.280^	770.1*	53
Storm Flow	Grab	6/28/2010	14:25		10-A29422	161	22		6.77	0.184	0.390^		120
Storm Flow	Grab	6/29/2010	13:15		10-A29765	69	9		8.03	0.136	0.277^		53
Storm Flow	Grab	6/30/2010	12:45		10-A30128	71	6		7.89	0.126	0.211^		47
Storm Flow	Grab	7/8/2010	13:20		10-A31706	113	16		7.24	0.093	0.267^	313.0	60
Base Flow	Grab	7/26/2010	14:40		10-A35256	169*	23		5.05	0.107	0.308		91
Base Flow	Grab	8/5/2010	14:10		10-A38044	61	8		3.58	0.106	0.221	435.2	37
Base Flow	Grab	8/24/2010	13:25		10-A41354	54	17		0.31	0.005	0.099		28
Base Flow	Grab	9/16/2010	14:40		10-A45919	85	14		6.46	0.082	0.184	1732.9	48
Storm Flow	Grab	9/23/2010	14:05		10-A47285	314	52		2.63	0.164	0.630		240
Storm Flow	Grab	9/24/2010	10:40		10-A47418	166	26		1.55	0.180	0.492		190
Storm Flow	Grab	9/27/2010	13:55		10-A47693	34	6		2.41	0.136	0.249		62
Storm Flow	Grab	9/30/2010	11:45		10-A48413	46	7		3.29	0.134	0.214		38

* Sample Exceeded Holding Time

^ Sample Diluted due to result above calibration or linear range

CHEMICAL DATA - Analytes tested for in a lab, 2010 - MVTL, New Ulm

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

STORET CODE - S002-247

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft ³ /sec)	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	N-NO2+N O3 MG/L	P-PO4 MG/L	TP MG/L	E.COLI /100ML	TURBIDITY NTU
Snowmelt	Grab	3/16/2010	13:20		10-A9108	62	10		8.32	0.268	0.425		48
Snowmelt	Grab	3/17/2010	12:50		10-A9363	80	11		7.00	0.205^	0.430		46
Snowmelt	Grab	3/23/2010	12:30		10-A10397	52	4		8.95	0.149	0.252		26
Base Flow	Grab	4/5/2010	13:20		10-A12478	77	12		6.48	0.030	0.158		27
Base Flow	Grab	4/27/2010	13:10		10-A17072	12	3		7.20	<0.005	0.039	47.1	6.1
Base Flow	Grab	5/5/2010	13:20		10-A18866	7	<2		7.03	<0.005	0.039		6.1
Base Flow	Grab	5/19/2010	13:10		10-A21895	24	3		9.83	0.006	0.062	58.8	13
Base Flow	Grab	6/2/2010	13:30		10-A24387	20	2		7.67	0.016	0.067		11
Storm Flow	Grab	6/15/2010	13:35		10-A26873	47	6		10.80	0.117	0.230^	461.1*	26
Storm Flow	Grab	6/28/2010	13:45		10-A29421	42	7		9.07	0.176	0.253^		31
Storm Flow	Grab	6/29/2010	12:35		10-A29764	34	8		8.76	0.113	0.200^		18
Base Flow	Grab	7/8/2010	12:40		10-A31705	87	15		7.13	0.095	0.251^	648.8	46
Base Flow	Grab	7/26/2010	14:05		10-A35255	115	18		5.05	0.136	0.304		67
Base Flow	Grab	8/5/2010	13:05		10-A38043	69	8		3.40	0.096	0.233	98.5	44
Base Flow	Grab	8/24/2010	12:45		10-A41353	28	9		0.66	0.012	0.133		14
Storm Flow	Grab	9/3/10	13:05		10-A43494	221	32		2.73	0.126	0.392		150
Storm Flow	Grab	9/16/10	14:00		10-A45918	74	13		7.09	0.083	0.180	>2419.6	46
Storm Flow	Grab	9/17/10	11:20		10-A46097	63	12		7.95	0.106	0.226		45
Storm Flow	Grab	9/21/10	12:30		10-A46475	34	7		6.00	0.066	0.152		18
Storm Flow	Grab	9/23/10	13:30		10-A47284	206	34		1.44	0.127	0.468		210
Storm Flow	Grab	9/24/10	10:40		10-A47417	82	13		1.86	0.162	0.356		120
Storm Flow	Grab	9/27/10	13:15		10-A47692	12	3		2.28	0.122	0.203		41
Storm Flow	Grab	9/30/10	11:05		10-A48412	10	2		3.12	0.107	0.180		13

* Sample Exceeded Holding Time

^ Sample Diluted due to result above calibration or linear range

CHEMICAL DATA - Analytes tested for in a lab, 2010 - MVTL, New Ulm

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

STORET CODE - S001-913

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft ³ /sec)	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	N- NO2+N		TP MG/L	E.COLI /100mL	TURBIDITY NTU
									O3 MG/L	P-PO4 MG/L			
Snowmelt	Grab	3/16/2010	12:45		10-A9107	61	9		9.31	0.186	0.341		39
Snowmelt	Grab	3/17/2010	12:30		10-A9362	106	15		9.71	0.155^	0.367		66
Snowmelt	Grab	3/23/2010	12:00		10-A10396	139	18		9.70	0.109	0.301		67
Base Flow	Grab	4/5/2010	12:25		10-A12477	55	10		7.75	0.040	0.134		32
Base Flow	Grab	4/27/2010	12:40		10-A17071	8	3		9.36	0.008	0.035	26.2	3.8
Base Flow	Grab	5/5/2010	12:50		10-A18865	4	<2		9.20	<0.005	0.031		2.2
Base Flow	Grab	5/19/2010	12:45		10-A21894	11	3		11.70	0.006	0.036	57.3	4.9
Base Flow	Grab	6/2/2010	13:00		10-A24386	5	<2		9.46	0.009	0.031		3.3
Storm Flow	Grab	6/15/2010	13:05		10-A26872	77	12		14.60	0.084	0.201^	816.4*	41
Storm Flow	Grab	6/28/2010	13:10		10-A29420	88	14		14.40	0.115	0.218^		55
Storm Flow	Grab	6/29/2010	12:05		10-A29763	87	15		13.60	0.053	0.189		48
Base Flow	Grab	7/8/2010	12:10		10-A31704	58	10		11.70	0.046	0.143	1,046.2	27
Base Flow	Grab	7/26/2010	13:35		10-A35254	45	8		9.80	0.076	0.168		27
Base Flow	Grab	8/5/2010	12:40		10-A38042	21	2		5.85	0.049	0.106	613.1	7.5
Base Flow	Grab	8/24/2010	12:15		10-A41352	5	2		1.92	0.023	0.056		2.5
Storm Flow	Grab	9/16/2010	13:30		10-A45917	92	17		9.57	0.068	0.172	>2419.6	47
Storm Flow	Grab	9/17/2010	10:55		10-A46096	76	13		12.00	0.090	0.198		46
Storm Flow	Grab	9/21/2010	12:00		10-A46474	35	9		9.93	0.049	0.115		17
Storm Flow	Grab	9/23/2010	12:50		10-A47283	366	54		1.93	0.162	0.504		230
Storm Flow	Grab	9/24/2010	10:15		10-A47416	125	17		2.58	0.189	0.430		150
Storm Flow	Grab	9/27/2010	12:35		10-A47691	54	10		4.93	0.126	0.235		58

* Sample Exceeded Holding Time

^ Sample Diluted due to result above calibration or linear range