

**CHEMICAL DATA - Analytes tested for in a lab, 2012 - MVTL, New Ulm**

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

**STORET CODE - S001-918**

**2012 Wateryear (Oct 1, 2011 to Sept. 30, 2012)**

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft <sup>3</sup> /sec)	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	N-NO2+NO3 MG/L	P-PO4 MG/L	TP MG/L	TURBIDITY NTU
Base	Grab	10/27/2011	13:40		11-A53993	9	8	0.7	0.72	0.010	0.050	4.6
Base	Grab	11/28/2011	14:10		11-A58138	3	2	0.9	1.20	0.006	0.012	2.1
Base	Grab	12/28/2011	13:45		11-A62038	6	4	1.1	1.69	0.006	0.013	3.3
Base	Grab	1/26/2012	13:10		12-A3995	6	5	0.7	1.86	0.013	0.021	4.3
Base	Grab	2/27/2012	11:00		12-A7721	7	7		1.32	0.012	0.026	2.4
Snow Melt	Grab	3/16/2012	13:05		12-A10525	8	5	0.5	0.82	0.015	0.066	13
Base	Grab	4/11/2012	15:20		12-A14756	19	5	1.3	<0.2	0.005	0.077	9.6
Base	Dup	4/11/2012	15:21		12-A14753	18	9		<0.2	<0.005	0.083	9.4
Base	Grab	4/24/2012	14:50		12-A17173	27	14	0.8	<0.2	<0.005	0.070	20
Storm Event	Grab	5/2/2012	15:30		12-A18976	960*	32	4.1	1.01	0.008	0.818^	520
Storm Event	Dup	5/2/2012	15:31		12-A18974	1030	128		1.12	0.010	0.864^	510
Storm Event	Grab	5/3/2012	15:30		12-A19305	435	70	3.5	4.64	0.128	0.748^	320
Storm Event	Grab	5/7/2012	15:00		12-A19748	853	83	5.3	6.72	0.138	1.020	590
Storm Event	Grab	5/8/2012	14:10		12-A20081	603	93	3.7	6.72	0.145	0.732	410
Storm Event	Dup	5/8/2012	14:11		12-A20075	487	70		7.05	0.148	0.711	410
Storm Event	Grab	5/11/2012	13:55		12-A20957	257	36	1.4	5.93	0.128	0.409	150
Storm Event	Grab	5/29/2012	14:40		12-A23701	494	62	2.4	10.20	0.148	0.631	330
Storm Event	Dup	5/29/2012	14:41		12-A23706	552			10.70			330
Storm Event	Grab	6/8/2012	12:05		12-A25988	131	23	2.5	10.60	0.081	0.271^	84
Base	Grab	6/13/2012	14:55		12-A26884	92	17	1.5	10.10	0.065	0.175	56
Base	Grab	6/27/2012	15:40		12-A29627	83	26	2.2	6.03	<0.005	0.097	47
Base	Grab	7/12/2012	15:40		12-A32346	66	23	1.8	0.23	<0.005	0.085	43
Base	Grab	7/31/2012	15:00		12-A35789	38	19	1.1	<0.2	<0.01~	0.084	26
Base	Grab	8/21/2012	14:50		12-A38882	19	11	0.9	0.34	<0.005*	0.056	12
Base	Grab	8/29/2012	15:15		12-A40145	24	11	1.1	0.23	0.006*	0.058	15
Base	Grab	9/13/2012	14:35		12-A42393	19	10	0.9	0.48	<0.005*	0.041	13
Base	Grab	9/20/2012	15:00		12-A43399	7	7	0.6	0.48	0.007*	0.051	6.2
Base	Grab	10/23/2012	13:25		12-A47891	3	3	0.8	0.44	<0.005*	0.022	1.9
Base	Grab	11/15/2012	12:05		12-A51475	3	3	0.5	0.65	<0.005*	0.018	5.3
Base	Grab	12/27/2012	13:35		12-A56266	2	2	0.8	1.74	0.008*	0.012	4.5

^ Sample Diluted due to result above calibration or linear range

\* Sample Exceeded Holding Time

~ Reporting limit elevated due to instrument performance

**CHEMICAL DATA - Analytes tested for in a lab, 2012- MVTL, New Ulm**

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

**STORET CODE - S001-919 2012 Wateryear (Oct 1, 2011 to Sept. 30, 2012)**

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft <sup>3</sup> /sec)	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	N-NO2+NO3 MG/L	P-PO4 MG/L	TP MG/L	TURB. NTU
Base	Grab	4/11/2012	14:35		12-A14752	15	7		<0.2	<0.005	0.093	8.7
Base	Grab	4/24/2012	13:45		12-A17189	14	9		0.40	<0.005	0.062	7.8
Storm Event	Grab	5/2/2012	14:45		12-A18973	195	55		7.56	0.297^	0.810^	260
Storm Event	Grab	5/3/2012	14:45		12-A19304	69	18		7.73	0.092	0.354^	60
Storm Event	Grab	5/7/2012	14:05		12-A19741	223	30		10.10	0.279	0.657	240
Storm Event	Grab	5/8/2012	13:30		12-A20074	162	34		12.30	0.254	0.451	110
Storm Event	Grab	5/29/2012	13:45		12-A23705	122	22		15.40	0.259^	0.423	100
Base	Grab	6/13/2012	14:05		12-A26906	28	7		15.70	0.054	0.122	17
Base	Grab	6/27/2012	13:50		12-A29624	24	6		11.90	0.032	0.106	14
Base	Grab	7/12/2012	14:25		12-A32350	24	9		1.25	0.006	0.091	16
Base	Grab	7/31/2012	13:55		12-A35793	21	11		<0.2	<0.01~	0.127	13
Base	Grab	8/21/2012	13:50		12-A38879	16	9		<0.2	<0.005*	0.078	8.5
Base	Grab	8/29/2012	14:10		12-A40139	12	5		<0.2	0.006*	0.066	7.7
Base	Grab	9/13/2012	13:50		12-A42387	10	5		<0.2	0.006*	0.062	7.2
Base	Grab	9/20/2012	13:50		12-A43396	11	9		<0.2	0.006*	0.064	8.6

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**CHEMICAL DATA - Analytes tested for in a lab, 2012 - MVTL, New Ulm**

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

**STORET CODE - S001-920**

**2012 Wateryear (Oct 1, 2011 to Sept. 30, 2012)**

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft <sup>3</sup> /sec)	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	N-NO2+NO3 MG/L	P-PO4 MG/L	TP MG/L	TURBIDITY NTU
Base	Grab	4/11/2012	14:15		12-A14751	13	5		<0.2	<0.005	0.098	8.5
Base	Grab	4/24/2012	13:30		12-A17188	23	9		<0.2	<0.005	0.073	11
Storm Event	Grab	5/2/2012	14:30		12-A18972	78	15		1.48	0.020	0.173	44
Storm Event	Grab	5/3/2012	14:30		12-A19303	334	54		2.26	0.047	0.569^	200
Storm Event	Grab	5/7/2012	13:50		12-A19740	563	77		4.63	0.106	0.823	510
Storm Event	Grab	5/8/2012	13:15		12-A20073	300	43		6.51	0.154	0.514	230
Storm Event	Grab	5/11/2012	13:10		12-A20954	165	24		4.71	0.104	0.352	98
Storm Event	Grab	5/29/2012	13:30		12-A23704	270	40		7.79	0.146	0.48	220
Base	Grab	6/13/2012	13:50		12-A26905	83	17		8.96	0.053	0.171	50
Base	Grab	6/27/2012	13:35		12-A29623	58	18		4.66	<0.005	0.107	37
Base	Grab	7/12/2012	14:10		12-A32349	69	18		0.25	0.006	0.135	40
Base	Grab	7/31/2012	13:40		12-A35791	36	13		<0.2	<0.01~	0.123	23
Base	Grab	8/21/2012	13:30		12-A38878	25	12		<0.2	<0.005*	0.087	12
Base	Grab	8/29/2012	13:50		12-A40138	23	10		<0.2	0.007*	0.067	15
Base	Grab	9/13/2012	13:30		12-A42386	12	6		0.48	<0.005*	0.047	8.5
Base	Grab	9/20/2012	13:35		12-A43395	9	8		<0.2	0.007*	0.070	9.9

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**CHEMICAL DATA - Analytes tested for in a lab, 2012 - MVTL, New Ulm**

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

**STORET CODE - S002-247 2012 Wateryear (Oct 1, 2011 to Sept. 30, 2012)**

FLOW TYPE	SAMP	DATE	TIME	FLOW	LAB SAMPLE	TSS	TSVS	TKN	N-NO2+NO3	P-PO4	TP	TURBIDITY
	TYPE			(ft <sup>3</sup> /sec)	ID #	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	NTU
Base	Grab	4/11/2012	13:35		12-A14750	13	4		<0.2	<0.005	0.070	9.9
Base	Grab	4/24/2012	12:50		12-A17178	27	9		<0.2	0.008	0.074	19
Storm Event	Grab	5/2/2012	13:45		12-A18971	900	159		1.91	0.067	1.48^	680
Storm Event	Grab	5/3/2012	13:50		12-A19302	585	110		5.89	0.079	0.926^	440
Storm Event	Grab	5/7/2012	13:10		12-A19739	327	43		5.25	0.150	0.580	280
Storm Event	Grab	5/8/2012	12:40		12-A20072	170	28		5.50	0.161	0.408	120
Storm Event	Grab	5/11/2012	12:35		12-A20953	90	16		3.86	0.104	0.274	51
Storm Event	Grab	5/29/2012	12:50		12-A23703	83	15		7.71	0.153	0.347	86
Base	Grab	6/13/2012	13:10		12-A26904	73	15		8.72	0.035	0.160	46
Base	Grab	6/27/2012	12:55		12-A29622	41	12		4.66	<0.005	0.101	23
Base	Grab	7/12/2012	13:30		12-A32348	65	17		<0.2	0.011	0.150	45
Base	Grab	7/31/2012	12:55		12-A35790	37	12		<0.2	0.020	0.155	33
Base	Grab	8/21/2012	12:50		12-A38877	23	9		<0.2	0.015*	0.094	17
Base	Grab	8/29/2012	13:10		12-A40137	15	6		<0.2	0.023*	0.089	11
Base	Grab	9/13/2012	12:40		12-A42385	13	4		<0.2	0.029*	0.077	8.8
Base	Grab	9/20/2012	12:45		12-A43394	8	6		<0.2	0.018*	0.085	8.3

^ Sample Diluted due to result above calibration or linear range

\* Sample Exceeded Holding Time

**CHEMICAL DATA - Analytes tested for in a lab, 2012 - MVTL, New Ulm**

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

**STORET CODE - S001-913      2012 Wateryear (Oct 1, 2011 to Sept. 30, 2012)**

FLOW TYPE	SAMP TYPE	DATE	TIME	FLOW (ft <sup>3</sup> /sec)	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	N-NO2+NO3 MG/L	P-PO4 MG/L	TP MG/L	TURBIDITY NTU
Base	Grab	4/11/2012	13:00		12-A14749	<2	<2		<0.2	0.005	0.027	2.2
Base	Grab	4/24/2012	12:15		12-A17177	6	5		<0.2	0.007	0.026	2.7
Storm Event	Grab	5/2/2012	13:10		12-A18970	2670	400		2.02	0.045	3.09^	610
Storm Event	Grab	5/3/2012	13:20		12-A19301	475	85		6.54	0.119	0.880^	400
Storm Event	Grab	5/7/2012	12:35		12-A19738	287	40		7.20	0.165	0.576	280
Storm Event	Grab	5/8/2012	12:10		12-A20071	373	60		8.27	0.146	0.540	240
Storm Event	Grab	5/29/2012	12:20		12-A23702	142	24		10.70	0.133	0.365	120
Base	Grab	6/13/2012	12:40		12-A26889	33	6		10.80	0.028	0.103	18
Base	Grab	6/27/2012	12:25		12-A29621	9	4		8.12	0.022	0.053	5.5
Base	Grab	7/12/2012	12:55		12-A32347	16	5		1.55	0.020	0.063	11

^ Sample Diluted due to result above calibration or linear range

\* Sample Exceeded Holding Time