

CHEMICAL DATA - Analytes tested for in a lab, 2011 - 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+NO3 MG/L	P-PO4 MG/L	TP MG/L	TURBIDITY NTU
Base	Grab	1/27/2011	16:00		11-A3502	8	3	1.8	8.47	0.047	0.072	7.3
Base	Grab	2/28/2011	12:15		11-A7169	22	5	1.0	10.30	0.075	0.136	9.1
Snowmelt	Grab	3/18/2011	13:05		11-A9830	312	38	2.3	8.22	0.184^*	0.479	160
Snowmelt	Grab	3/20/2011	17:45		11-A9958	476	56	0.6	8.69	0.160	0.580	250
Snowmelt	Grab	3/21/2011	10:30		11-A9960	528	44	3.1	8.51	0.201	0.576	260
Snowmelt	Grab	3/22/2011	14:35		11-A10344	502	47	2.6	7.74	0.213	0.691	310
Snowmelt	Grab	3/25/2011	12:05		11-A10988	312	32	2.6	7.56	0.254	0.558	210
Snowmelt	Grab	3/30/2011	11:05		11-A11654	193	23	2.0	9.41	0.163	0.384	120
Snowmelt	Grab	4/8/2011	12:35		11-A13702	138	19	1.6	8.69	0.104	0.258	86
Snowmelt	Dup	4/8/2011	12:36		11-A13696	136	22		8.68	0.093	0.263	86
Base	Grab	4/29/2011	12:00		11-A18124	73	11	1.3	9.22	0.026	0.093	38
Base	Grab	5/12/2011	14:45		11-A20769	92	13	1.8	8.69	0.007	0.090	36
Base	Dup	5/12/2011	14:46		11-A20762	78	14		8.77	0.007	0.094	39
Storm Flow	Grab	5/23/2011	14:05		11-A22723	364	43	2.2	12.30	0.070	0.407^	180
Storm Flow	Grab	5/25/2011	11:20		11-A23213	144	17	1.2	12.10	0.066	0.179	77
Base	Grab	6/9/2011	10:50		11-A26224	74	12	2.6	10.50	0.048	0.137	40
Base	Grab	6/14/2011	14:50		11-A26973	67	12	1.2	9.91	0.043	0.124	36
Base	Dup	6/14/2011	14:51		11-A26967	65	12		9.77	0.040	0.132	36
Storm Flow	Grab	6/15/2011	14:30		11-A27335	346	40	2.3	12.00	0.114	0.484^	150
Storm Flow	Grab	6/17/2011	11:10		11-A27931	518	58	2.7	9.42	0.183	0.668^	320
Storm Flow	Grab	6/22/2011	12:25		11-A28749	270	31	1.6	11.30	0.141	0.591^	160
Storm Flow	Grab	6/24/2011	12:45		11-A29584	165	21	2.0	10.20	0.153	0.439^	120
Base	Grab	7/12/2011	14:10		11-A33159	181	27		9.36	0.090	0.236^	89
Base	Grab	7/29/2011	12:45		11-A36985	89	16	1.1	5.73	0.083*	0.186	49
Base	Grab	8/9/2011	14:40		11-A38698	61	16	0.9	1.89	<0.005	0.079	41
Base	Dup	8/9/2011	14:41		11-A38706	62	22		1.86	<0.005	0.104	39
Base	Grab	8/22/2011	14:25		11-A41289	56	16	1.4	0.91	0.006	0.057	38
Base	Grab	9/8/2011	14:25		11-A44572	50	20	1.4	0.62	0.006	0.072	35
Base	Grab	9/29/2011	14:20		11-A48262	30	10	0.8	1.00	0.005	0.054	18

^ Sample Diluted due to result above calibration or linear range * Sample Exceeded Holding Time

CHEMICAL DATA - Analytes tested for in a lab, 2011- 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+NO3 MG/L	P-PO4 MG/L	TP MG/L	TURB. NTU
Snowmelt	Grab	3/18/2011	12:30		11-A9833	124	21		12.10	0.197*	0.360	52
Snowmelt	Grab	3/20/2011	17:05		11-A9955	173	25		12.00	0.212	0.429	82
Snowmelt	Grab	3/22/2011	13:50		11-A10336	86	14		10.50	0.319	0.518	69
Snowmelt	Grab	3/25/2011	11:20		11-A10984	60	12		9.65	0.385	0.515	44
Snowmelt	Grab	3/30/2011	10:15		11-A11651	44	10		12.80	0.229	0.323	27
Base	Grab	4/8/2011	11:50		11-A13695	33	7		13.20	0.149	0.219	20
Base	Grab	4/29/2011	11:15		11-A18121	13	5		14.30	0.031	0.059	6.7
Base	Grab	5/12/2011	13:55		11-A20761	35	10		14.20	0.015	0.093	15
Storm Flow	Grab	5/23/2011	13:20		11-A22713	101	21		17.30	0.146	0.262^	66
Base	Grab	6/14/2011	13:50		11-A26966	24	7		15.60	0.043	0.092	12
Storm Flow	Grab	6/15/2011	13:50		11-A27339	120	19		18.10	0.199	0.411^	68
Storm Flow	Grab	6/17/2011	10:30		11-A27930	54	11		19.00	0.098	0.183	31
Storm Flow	Grab	6/22/2011	11:45		11-A28746	179	31		13.80	0.226^	0.577^	130
Base	Grab	7/12/2011	13:30		11-A33158	73	14		15.50	0.072	0.176^	32
Base	Grab	7/29/2011	11:45		11-A36982	29	9		9.98	0.060*	0.158	16
Base	Grab	8/9/2011	13:40		11-A38705	19	11		2.80	<0.005	0.106	10
Base	Grab	8/22/2011	13:30		11-A41286	10	6		0.99	0.007	0.077	6.2
Base	Grab	9/8/2011	13:25		11-A44569	6	2		0.47	0.006	0.069	7.9
Base	Grab	9/29/2011	13:25		11-A48256	16	6		0.44	<0.005	0.057	10

^ Sample Diluted due to result above calibration or linear range * Sample Exceeded Holding Time

CHEMICAL DATA - Analytes tested for in a lab, 2011 - 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+NO3 MG/L	P-PO4 MG/L	TP MG/L	TURBIDITY NTU
Snowmelt	Grab	3/18/2011	12:20		11-A9832	156	28		6.27	0.196^*	0.490	79
Snowmelt	Grab	3/20/2011	16:55		11-A9954	174	24		7.22	0.188	0.414	93
Snowmelt	Grab	3/22/2011	13:35		11-A10335	116	18		5.93	0.190	0.392	85
Snowmelt	Grab	3/25/2011	11:00		11-A10983	92	16		6.79	0.208	0.375	76
Snowmelt	Grab	3/30/2011	9:50		11-A11650	98	15		8.14	0.116	0.296	65
Base	Grab	4/8/2011	11:35		11-A13694	65	13		7.31	0.069	0.234	45
Base	Grab	4/29/2011	11:00		11-A18120	44	10		7.91	0.017	0.086	20
Base	Grab	5/12/2011	13:40		11-A20760	34	9		6.80	0.006	0.074	14
Storm Flow	Grab	5/23/2011	13:05		11-A22712	119	21		10.30	0.067	0.258^	74
Base	Grab	6/14/2011	13:35		11-A26965	56	10		8.26	0.049	0.131	31
Storm Flow	Grab	6/15/2011	13:35		11-A27338	462	78		7.64	0.191^	0.877^	340
Storm Flow	Grab	6/17/2011	10:10		11-A27929	94	16		8.96	0.195^	0.495^	100
Storm Flow	Grab	6/22/2011	11:35		11-A28745	145	24		8.50	0.131	0.449^	110
Storm Flow	Grab	7/12/2011	13:15		11-A33157	123	22		7.46	0.093	0.232^	69
Base	Grab	7/29/2011	11:30		11-A36981	69	15		4.64	0.073*	0.207	40
Base	Grab	8/9/2011	13:25		11-A38704	28	8		2.06	0.013	0.125	19
Base	Grab	8/22/2011	13:15		11-A41285	24	11		0.74	0.007	0.095	17
Base	Grab	9/8/2011	13:10		11-A44568	39	15		0.66	0.006	0.127	28
Base	Grab	9/29/2011	13:05		11-A48255	48	17		0.74	0.006	0.117	34

^ Sample Diluted due to result above calibration or linear range * Sample Exceeded Holding Time

CHEMICAL DATA - Analytes tested for in a lab, 2011 - 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+NO3 MG/L	P-PO4 MG/L	TP MG/L	TURBIDITY NTU
Snowmelt	Grab	3/18/2011	11:05		11-A9831	77	18		7.50	0.171*	0.277	42
Snowmelt	Grab	3/20/2011	16:15		11-A9953	54	11		6.34	0.181	0.286	30
Snowmelt	Grab	3/22/2011	12:50		11-A10334	65	13		6.45	0.185	0.331	51
Snowmelt	Grab	3/25/2011	10:20		11-A10982	46	9		7.01	0.222	0.305	42
Snowmelt	Grab	3/30/2011	9:15		11-A11649	37	7		8.14	0.115	0.235	36
Base	Grab	4/8/2011	10:55		11-A13693	31	8		6.80	0.059	0.131	20
Base	Grab	4/29/2011	10:25		11-A18119	27	7		7.39	0.010	0.057	13
Base	Grab	5/12/2011	13:00		11-A20759	20	6		6.58	0.009	0.066	10
Storm Flow	Grab	5/23/2011	12:25		11-A22711	62	12		9.90	0.051	0.133	36
Storm Flow	Grab	6/14/2011	13:00		11-A26964	96	17		7.57	0.044	0.173	53
Storm Flow	Grab	6/15/2011	12:55		11-A27337	306*	48		6.61	0.212^	0.726^	290
Storm Flow	Grab	6/17/2011	9:35		11-A27928	30	8		9.25	0.194	0.346^	38
Storm Flow	Grab	6/22/2011	10:55		11-A28744	101	19		7.43	0.145	0.448^	91
Base	Grab	7/12/2011	12:35		11-A33156	106	19		6.70	0.086	0.211^	60
Base	Grab	7/29/2011	10:50		11-A36980	81	15		3.70	0.086*	0.218	50
Base	Grab	8/9/2011	12:50		11-A38703	31	9		1.47	0.040	0.158	20
Base	Grab	8/22/2011	12:40		11-A41284	26	9		0.42	0.030	0.124	20
Base	Grab	9/8/2011	12:30		11-A44567	47	13		0.26	0.013	0.162	38
Base	Grab	9/29/2011	12:25		11-A48254	43	10	<0.2		0.006	0.114	34

^ Sample Diluted due to result above calibration or linear range * Sample Exceeded Holding Time
 (6/15/11 Sample Note) TSS/Turb ratio was off on orig. analysis, TSS reanalyzed - beyond holding time

CHEMICAL DATA - Analytes tested for in a lab, 2011 - 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+NO3 MG/L	P-PO4 MG/L	TP MG/L	TURBIDITY NTU
Snowmelt	Grab	4/8/2011	10:20		11-A13692	81	16		7.76	0.089	0.218	52
Base	Grab	4/29/2011	10:00		11-A18118	36	7		9.32	0.026	0.075	17
Base	Grab	5/12/2011	12:35		11-A20758	17	6		8.57	0.018	0.060	9.2
Storm Flow	Grab	5/23/2011	12:00		11-A22710	114	19		12.20	0.097	0.238^	66
Storm Flow	Grab	6/14/2011	12:30		11-A26963	153	26		9.44	0.048	0.311^	78
Storm Flow	Grab	6/15/2011	12:20		11-A27336	296	52		8.07	0.218^	0.731^	280
Storm Flow	Grab	6/17/2011	9:10		11-A27927	93	19		10.50	0.156	0.395^	92
Base	Grab	7/12/2011	12:10		11-A33155	50	11		9.05	0.064	0.172	29
Base	Grab	7/29/2011	10:25		11-A36979	21	6		5.96	0.056*	0.115	12
Base	Grab	8/9/2011	12:20		11-A38702	10	5		3.12	0.027	0.069	4.7
Base	Grab	8/22/2011	12:10		11-A41283	6	4		1.19	0.026	0.058	3
Base	Grab	9/8/2011	12:05		11-A44566	6	4		0.35	0.013	0.049	3.6
Base	Grab	9/29/2011	12:00		11-A48253	17	6		0.26	0.009	0.057	11

^ Sample Diluted due to result above calibration or linear range * Sample Exceeded Holding Time