CHEMICAL DATA - Analytes tested for in a lab, 2008 - 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	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	N-NO2+NO3 MG/L	P-PO4 MG/L	TP MG/L	E COLI /100ML	TURBIDITY NTU	Chloride MG/L	Sulfate MG/L	Ammonia MG/L	Hardness CaCO3 - MG/L
Base Flow	Grab	1/15/2008	11:15	08-A1896	4	4		8.03	0.038	0.044		5				
Base Flow	Grab	2/13/2008	10:50	08-A5501	3	3		5.77	0.047	0.056		2				
Base Flow	Grab	3/4/2008	10:40	08-A7825	3	3		4.95	0.050	0.061		7				
Base Flow	Grab	4/8/2008	14:05	08-A12978	42	3		3.54	0.056	0.135		38				
Snowmelt/Tile	Grab	4/16/2008	13:15	08-A14683	58	7		11.20	0.071	0.156		35				
Snowmelt/Tile	DUP	4/16/2008	13:15	08-A14684	57			11.10		0.152		36				
Snowmelt/Tile	Grab	4/21/2008	10:55	08-A15427	54	8		8.99	0.048	0.138		38				
Snowmelt/Tile	DUP	4/21/2008	10:55	08-A15428	59			8.92		0.135		36				
Storm Flow	Grab	4/28/2008	13:15	08-A16816	276	29		15.10	0.083	0.319		140				
Storm Flow	DUP	4/28/2008	13:15	08-A16817				15.20		0.295		140				
Storm Flow	Grab	5/3/2008	12:15	08-A18470	331	31		13.00		0.433						
Storm Flow	DUP	5/3/2008	12:15	08-A18471	370			13.10		0.459						
Storm Flow	Grab	5/6/2008	12:40	08-A18463	218	25		14.30	0.072	0.254		120				
Base Flow	Grab	5/21/2008	13:20	08-A21919	56	8		11.80	0.014	0.076	39.9	30				
Base Flow	DUP	5/21/2008	13:20	08-A21918	48			11.30		0.058		29				
Storm Flow	Grab	6/6/2008	13:15	08-A25152	448	56		12.30	0.262	0.563		270				
Storm Flow	DUP	6/6/2008	13:15	08-A25153				12.10	0.263	0.357		280				
Storm Flow	Grab	6/9/2008	12:30	08-A25410	213	24		16.00	0.088	0.097		110				
Storm Flow	DUP	6/9/2008	12:30	08-A25411				15.80	0.088	0.105		110				
Storm Flow	Grab	6/13/2008	11:10	08-A26667	240	28		14.20	0.135	0.338		140				
Storm Flow	DUP	6/13/2008	11:10	08-A26668				14.30	0.152	0.285		140				
Base Flow	Grab	6/26/2008	12:15	08-A28869	78	10		11.60	0.058	0.098	218.7	46				
Base Flow	DUP	6/26/2008	12:15	08-A28870	80			11.50		0.136		43				
Base Flow	Grab	7/9/2008	11:15	08-A31010	60	13		6.45	0.008	0.078		37				
Base Flow	DUP	7/9/2008	11:15	08-A31011		13		6.42		0.078		35				
Base Flow	Grab	7/31/2008	13:50	08-A35303	76	26	2.2	1.07	0.020	0.101		52	22.7	193		
Base Flow	DUP	7/31/2008	13:50	08-A35313		32		1.06	0.020		330	50				
Base Flow	Grab	8/6/2008	12:40	08-A36213	37	17	2.4	0.86	0.014	0.054		14	24.6	199	<0.16	
Base Flow	DUP	8/6/2008	12:40	08-A36221				0.81	0.015	0.068		16				
Base Flow	Grab	8/25/2008	14:40	08-A40412	22	9		0.47	0.012	0.060	13.5	12	25.2	181		
Base Flow	Grab	8/25/2008	14:40	08-A40408			1.3			0.052					<0.16	376
Base Flow	Grab	9/16/2008	11:30	08-A44229	31	13	2.0	0.70	<0.02	0.062	75.9	23	28.6	156	0.29	360
Base Flow	Grab	9/30/2008	11:40	08-A46440	9	4	0.7	0.75	0.012	0.045		7	29.2	174	<0.16	397
Base Flow	Grab	10/31/2008	10:50	08-A52751	4	3	1.0	1.12	<0.02	0.024		5*	31.5	220	<0.16	454
Base Flow	Grab	11/25/2008	11:30	08-A56474	9	5	1.7	2.20	0.015	0.036		9	36.5	301^	<0.16	543
Base Flow	Grab	12/30/2008	11:55	08-A60256	4	<2	1.6	2.79	0.016	0.020		3*	33.2	293	<0.16	594

^ Sample Diluted due to result above calibration or linear range

* Sample Exceeded Holding Time

CHEMICAL DATA - Analytes tested for in a lab, 2008 - 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	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	N-NO2+NO3 MG/L	P-PO4 MG/L	TP MG/L	E. COLI /100ML	TURB. NTU
Base Flow	Grab	4/8/2008	13:15	08-A12977	<2	<2		6.16	0.026	0.045		9
Base Flow	Grab	4/18/2008	11:40	08-A15204	6	3		16.00	0.037	0.059		6
Storm Flow	Grab	4/28/2008	12:25	08-A16815	30	4		21.70	0.071	0.100		12
Storm Flow	Grab	5/3/2008	11:20	08-A18469	108	18		18.40		0.338		
Storm Flow	Grab	5/6/2008	12:00	08-A18462	42	18		19.30	0.038	0.084		13
Base Flow	Grab	5/21/2008	12:35	08-A21920	10	<2		18.30	<0.005	0.025	29.4	7
Storm Flow	Grab	6/6/2008	12:30	08-A25151	185*	26*		21.7^	0.225	0.343		82
Storm Flow	Grab	6/9/2008	11:50	08-A25409	40	6		19.1^	0.058	0.071		20
Storm Flow	Grab	6/13/2008	10:25	08-A26666	55	9		20.6^	0.111	0.159		34
Base Flow	Grab	6/26/2008	11:30	08-A28868	29	7		16.70	0.032	0.055	222.4	15
Base Flow	Grab	7/9/2008	10:35	08-A31008	19	6		10.00	0.028	0.086		12
Base Flow	Grab	7/31/2008	13:10	08-A35312	105	32		1.51	0.021	0.207	1,553.1	60
Base Flow	Grab	8/6/2008	12:00	08-A36220	86	32		<0.2	0.033	0.170		44
Base Flow	Grab	8/25/2008	13:45	08-A40411	11	4		0.32	0.011	0.064	190.4	7.2
Base Flow	Grab	9/16/2008	10:30	08-A44225	9	3		0.46	<0.02	0.047	549.3	10
Base Flow	Grab	9/30/2008	10:45	08-A46437	9	4		0.35	0.011	0.053		9

^ Sample Diluted due to result above calibration or linear range

* Sample Exceeded Holding Time

CHEMICAL DATA - Analytes tested for in a lab, 2008 - 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	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	N-NO2+NO3 MG/L	P-PO4 MG/L	TP MG/L	E.COLI /100ML	TURBIDITY NTU
Base Flow	Grab	4/8/2008	13:00	08-A12976	30	4		3.47	0.059	0.140		30
Snowmelt/Tile	Grab	4/16/2008	12:30	08-A14682	60	8		8.96	0.058	0.150		31
Snowmelt/Tile	Grab	4/21/2008	10:55	08-A15426	59	9		7.15	0.049	0.147		35
Storm Flow	Grab	4/28/2008	12:10	08-A16814	194	25		13.30	0.079	0.263		92
Storm Flow	Grab	5/3/2008	11:10	08-A18468	193	27		11.20		0.327		
Storm Flow	Grab	5/6/2008	11:50	08-A18461	156	19		12.30	0.055	0.208		75
Base Flow	Grab	5/21/2008	12:20	08-A21921	39	7		9.69	0.014	0.080	35.9	24
Storm Flow	Grab	6/6/2008	12:15	08-A25150	136	19		12.80	0.141	0.129		88
Storm Flow	Grab	6/9/2008	11:40	08-A25408	150	20		13.90	0.084	0.108		83
Storm Flow	Grab	6/13/2008	10:15	08-A26665	292	40		12.40	0.177	0.322		200
Base Flow	Grab	6/26/2008	11:05	08-A28867	69	12		10.30	0.057	0.097	307.6	41
Base Flow	Grab	7/9/2008	10:20	08-A31009	19	7		5.83	0.009	0.073		11
Base Flow	Grab	7/31/2008	12:55	08-A35311	28	4		2.09	0.029	0.103	2,419.6	17
Base Flow	Grab	8/6/2008	11:50	08-A36219	28	8		0.69	0.015	0.078		14
Base Flow	Grab	8/25/2008	13:15	08-A40410	26	9		0.39	0.013	0.068	59.8	13
Base Flow	Grab	9/16/2008	10:10	08-A44224	32	11		0.20	<0.02	0.108	222.4	23
Base Flow	Grab	9/30/2008	10:20	08-A46436	19	8		0.59	0.016	0.086		13

^ Sample Diluted due to result above calibration or linear range

* Sample Exceeded Holding Time

CHEMICAL DATA - Analytes tested for in a lab, 2008 - MVTL, New Ulm

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

STORET CODE - S002-247

FLOW TYPE	SAMP TYPE	DATE	TIME	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	N-NO2+NO3 MG/L	P-PO4 MG/L	TP MG/L	E.COLI /100ML	TURBIDITY NTU
Base Flow	Grab	4/8/2008	12:15	08-A12975	16	<2		3.38	0.055	0.132		18
Snowmelt/Tile	Grab	4/16/2008	11:50	08-A14681	35	9		7.71	0.047	0.125		26
Snowmelt/Tile	Grab	4/18/2008	10:50	08-A15203	77	11		9.28	0.111	0.213		63
Snowmelt/Tile	Grab	4/21/2008	10:15	08-A15425	44	8		6.06	0.047	0.122		28
Storm Flow	Grab	4/28/2008	11:30	08-A16813	95	11		12.50	0.103	0.202		50
Storm Flow	Grab	5/3/2008	10:30	08-A18467	83	13		9.83		0.171		
Storm Flow	Grab	5/6/2008	11:15	08-A18460	73	10		10.70	0.041	0.135		40
Base Flow	Grab	5/21/2008	11:40	08-A21922	25	5		8.70	0.016	0.060	98.5	17
Storm Flow	Grab	6/6/2008	11:40	08-A25149	54	8		11.10	0.047	0.091		34
Storm Flow	Grab	6/9/2008	11:05	08-A25407	90	14		12.40	0.066	0.152		52
Storm Flow	Grab	6/13/2008	9:35	08-A26664	136	22		13.20	0.123	0.170		98
Base Flow	Grab	6/26/2008	10:30	08-A28866	58	10		9.21	0.059	0.079	298.7	37
Base Flow	Grab	7/8/2008	13:10	08-A30651	22	4		4.81	0.039	0.093		18
Base Flow	Grab	7/31/2008	12:15	08-A35310	54	6		1.55	0.039	0.140	547.5	36
Base Flow	Grab	8/6/08	11:15	08-A36218	27	7		0.38	0.030	0.111		22
Base Flow	Grab	8/25/08	12:25	08-A40409	15	4		<0.2	0.012	0.072	37.2	9.8
Base Flow	Grab	9/16/08	9:15	08-A44223	17	5		<0.2	<0.02	0.094	410.6	16
Base Flow	Grab	9/30/08	9:40	08-A46435	11	4		<0.2	0.030	0.103		14

^ Sample Diluted due to result above calibration or linear range

* Sample Exceeded Holding Time

CHEMICAL DATA - Analytes tested for in a lab, 2008 - 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	LAB SAMPLE ID #	TSS MG/L	TSVS MG/L	TKN MG/L	N-NO2+NO3 MG/L	P-PO4 MG/L	TP MG/L	E.COLI /100mL	TURBIDITY NTU
Base Flow	Grab	4/8/2008	11:20	08-A12972	14	3		4.60	0.044	0.088		12
Snowmelt/Tile	Grab	4/16/2008	11:30	08-A14680	98	16		11.70	0.088	0.215		53
Snowmelt/Tile	Grab	4/18/2008	10:30	08-A15202	27	5		8.28	0.055	0.095		18
Storm Flow	Grab	4/28/2008	11:00	08-A16812	101	12		13.50	0.040	0.150		52
Storm Flow	Grab	5/3/2008	10:00	08-A18466	172	27		10.80		0.216		
Storm Flow	Grab	5/6/2008	10:40	08-A18459	82	16		12.00	0.027	0.123		40
Base Flow	Grab	5/21/2008	11:00	08-A21923	18	3		10.50	0.008	0.038	30.9	9
Storm Flow	Grab	6/6/2008	10:55	08-A25148	308	38		15.00	0.078	0.446		190
Storm Flow	Grab	6/9/2008	10:40	08-A25406	123	19		13.00	0.055	0.167		68
Storm Flow	Grab	6/13/2008	9:15	08-A26663	157	20		14.80	0.100	0.214		95
Base Flow	Grab	6/26/2008	9:50	08-A28865	27	5		11.50	0.022	0.029	686.7	15
Base Flow	Grab	7/8/2008	12:20	08-A30650	7	<2		7.59	0.015	0.035		4
Base Flow	Grab	7/31/2008	11:35	08-A35309	12	<2		3.50	0.037	0.087	>2419.6	10
Base Flow	Grab	8/6/2008	10:30	08-A36217	7	3		1.25	0.019	0.030		5
Base Flow	Grab	8/25/2008	11:00	No Sample - Low Flow								
Base Flow	Grab	9/16/2008	8:10	08-A44222	5	3		0.59	0.022	0.032	435.2	7
Base Flow	Grab	9/30/2008	8:25	08-A46434	8	4		2.46	0.032	0.065		7