

2001 Gauge readings and concentrations

Site: CC 1 @ Campbell Creek at CTY HWY 149

Hi up Strm - Zero = 1381.69							comments:
Date	Gauge Culvert	Gauge Middle	Gauge MPCA	totphos	ortho	suspsol	
1-Apr	2.4			120		3.5	
8-Apr	3.7			355	344	144.5	
11-Apr	3.53			210		54	
15-Apr	3.5			125		32	
20-Apr	2.85			109	53	40.5	
28-Apr	2.45			90	64	7	
5-May	1.5			55	23	17	
13-May	1.4			50		10	
20-May				93		17	
30-May	1.9			76	39	31	
5-Jun	1.72			77	36	22	
11-Jun	1.3			76	61	24	
11-Jun	1.5			117	73		storm sample
18-Jun	1.25			69	42	16.5	
26-Jun	0.95			82	31		
2-Jul	0.96			80	64	3	
10-Jul	0.5						no flow
18-Jul	0.5						no flow
19-Jul	1			238		61	storm sample
23-Jul	0.6						no flow
30-Jul	0.5						storm sample(no flow)
31-Jul	0.58			168	88		
6-Aug	0.6						no flow
13-Aug	0.5						no flow
20-Aug	0.55						no flow
27-Aug	0.62						
9-Sep	0.77			88	66		
15-Sep	0.65						no flow
22-Sep	0.6			75	72	4	
27-Oct	0.8			87	37	1	
3-Nov	2.5			77	31	8	
9-Nov	1.18			30	12	6.5	
18-Nov	0.96			21	10	3.5	
24-Nov	1			21	12	4	
2-Dec	X			20		4.5	ice
9-Dec	X			18	12	2	ice
15-Dec	X			15	9	1	ice
27-Dec	X			X	X	X	ice

Site: CC 2 @ Campbell Creek

Date	Gauge	totphos	ortho	suspsol	comments:
30-May	1.85	44	23	8.5	
5-Jun	1.65	77	26	7.5	
11-Jun	1.2	63	39	13.5	
11-Jun	1.45	65	61		storm sample
18-Jun	1.1	49	31	5.5	
26-Jun	0.65	64	37		
2-Jul	0.45	82	59	3.5	
10-Jul	0.1				no flow
18-Jul	0.1				no flow
19-Jul	0.1				no flow / storm sample
23-Jul	0.1				no flow
30-Jul	0.1	95	74	7	storm sample
31-Jul	0.1				no flow
6-Aug	0.1				no flow
13-Aug	0.1				no flow
20-Aug	0.1				no flow
27-Aug	0.1				

Site: CC 3 @ Campbell Creek

Date	Gauge	totphos	ortho	suspsol	comments:
30-May	1.3	24	6	2.5	
5-Jun	1.35	34	13	0.5	
11-Jun	1.3	47	18	3	
11-Jun	1.35	35	21		storm sample
18-Jun	1.3	48	23	1.5	
26-Jun	1.2	70	45		
2-Jul	1.12	55	37	9.5	
10-Jul	1				no flow
18-Jul	0.9				no flow
19-Jul	1	147		9	storm sample
23-Jul	1				no flow
30-Jul	1.2	176	133	31	storm sample
31-Jul	1.1				no flow
6-Aug	1.1				no flow
13-Aug	1.1				no flow
20-Aug	0.98				no flow
27-Aug	0.85				

Site: HOL @ Holmes St. Outflow

Date	Gauge	totphos	ortho	suspsol	comments:
11-Jun	----	155	80		storm sample
19-Jul		36	36		
30-Jul		243	139	71	storm sample
30-Jul		413	316	110	inflow/storm sample

Site: PRO @ Richwood Road Culvert between Mud & Little Floyd

Date	Gauge	totphos	ortho	suspsol	comments:
14-Jan	frozen	44	13	4	
4-Feb	frozen	40	12	1	
11-Feb	frozen	44	6	2	
18-Feb	frozen	49	9	1	
24-Feb	frozen	44	7	2	
3-Mar	frozen	40	7	3	
10-Mar	frozen	10	6	2	
18-Mar	frozen	36	7	2.5	
25-Mar	frozen	34	7	1	
1-Apr	1.6	32		3	gauge tilted
8-Apr	1.9	52	17	10	
15-Apr	2.3	85		10	
20-Apr	2.35	85	24	3	
28-Apr	2.4	57	7	4.5	
5-May	2.3	44	130	4	
13-May	2.1	63		12.5	
20-May				7	
30-May	2.1	48	4	37	
5-Jun	2	1.12	4	6.5	
11-Jun	2	47	6	8.5	
18-Jun	2	59	10	9	
26-Jun	1.9	23	10		
2-Jul	1.8	31	7	1.5	
10-Jul	1.65	36		3	
18-Jul	1.6	26	9	3.5	
23-Jul	1.7	27	6	2	
31-Jul	1.5	29	4		
6-Aug	1.48	42	7	10.5	
13-Aug	1.45	72	6	-	
20-Aug	1.44	20	6	2	
27-Aug	1.47				
9-Sep	1.43	26	7		
15-Sep	2.35	26	5	2	
22-Sep	1.4	22	12		
7-Oct		45		1.5	
14-Oct	1.48	31	15	14	
18-Oct	1.39	31		2	
27-Oct	1.6	37	12	2	
3-Nov	1.55	33	9	6.5	
9-Nov	1.65	25	9	3	
18-Nov	1.6	29	10	2	
24-Nov	1.65	21	5	2	
2-Dec X		21		4	ice
9-Dec X		21	7	1.5	ice
15-Dec	1.65	31	5	1.5	
27-Dec X		28	7	0.5	ice

Date	Gauge	totphos	ortho	suspsol
14-Jan	frozen	40	12	
4-Feb	frozen	34	10	
18-Feb	frozen	41	7	
25-Feb	frozen	47	10	
3-Mar	frozen	30	6	
10-Mar	frozen	37	9	
18-Mar	2.28	44	6	
25-Mar	2.3	29	6	
1-Apr	2.3	29		
8-Apr	2.62	17	7	
15-Apr	2.95	58		
20-Apr	3.02	58	12	
28-Apr	3.06	40	4	
5-May	2.94	37	130	
13-May	2.8	23		
30-May	2.8	23	4	
5-Jun	2.76	34	2	
11-Jun	2.75	26	2	
18-Jun	2.7	28	4	
26-Jun	2.68	23	9	
2-Jul	2.52	22	6	0.5
10-Jul	2.35	23	4	
18-Jul	2.3	32	4	
23-Jul	2.32	23	2	
31-Jul	2.26	23	2	
6-Aug	2.18	18	4	
13-Aug	2.16	30	4	8
20-Aug	2.1	25	7	-
27-Aug	2.07			
9-Sep	2.14	15	7	
15-Sep	2.1	28	5	
22-Sep	2.1	17	7	
7-Oct	2	20		
14-Oct	2.22	15	5	
18-Oct	2.21	31		
27-Oct	2.26	21	4	
3-Nov	2.3	15	6	
9-Nov	2.36	10	6	
18-Nov	2.36	21	9	
24-Nov	2.34	15	4	
2-Dec	2.38	20		
9-Dec	2.32	16	10	
16-Dec	2.32	13	4	
27-Dec	2.32	18	4	

Site : PR 3 @ Hwy 34 at PR

Date	Gauge	tail	totphos	ortho	suspsol
2-Apr	1.2				
5-Apr	1.6				
6-Apr	1.7				
7-Apr	2.8				
9-Apr	3.15				
10-Apr	3.1				
11-Apr	2.97		76		
27-Apr	2.8				
30-Apr	2.5				
1-May	2.38				
2-May	2.3				
?	2				
7-May	2.1				
8-May	2.08				
9-May	2				
11-May	1.9				
13-May	2.1				
14-May	1.8				
16-May	1.75				
19-May	1.6				
20-May	1.55				
22-May	1.7				
24-May	2				
25-May	2				
29-May	2.15				
30-May	2.1		48	31	5
31-May	1.95				
1-Jun	2				
4-Jun	2				
5-Jun	1.9		39	28	2.5
11-Jun	1.7		52	32	3
15-Jun	1.9				
18-Jun	1.7		49	26	1.5
26-Jun	1.4		54	36	
2-Jul	1.45		146	62	2
10-Jul	1.4		82	63	0.5
18-Jul	1.7		900	70	1
23-Jul	1.96		114	41	
31-Jul	1.76		66		
6-Aug	1.58		243	49	5
13-Aug	0.9		65	42	1.5
20-Aug	1		28	28	1.5
27-Aug	0.75				
22-Sep	0.7		64	40	1.5
7-Oct			48		3.5
14-Oct	1.4		50	37	5
18-Oct	1.08		56		1.5
3-Nov			59	34	5
9-Nov	1.21		30	23	3

dirty gauge

Site PR4/PR5 gauge at Corbett:Sample at NSD

Date	Gauge	Tphos	ortho	suspsol	
14-Jan		44	26		
18-Mar		74	47	7	
1-Apr		29			
5-Apr		104			
8-Apr	3.2	95	91	16.5	
15-Apr	3	76		6	
21-Apr	2.55	60	24	8	
28-Apr	2.9	42	23	8	
5-May	2.45	48	240	9.5	
13-May	2.24	37		4	
20-May				1.5	
30-May	2.4	52	28	5.5	
5-Jun	1.9	52	28	4	
11-Jun	2.1	58	34	5	
11-Jun	2.25	86	81		
18-Jun	2	39	28	1.5	
26-Jun	1.75	48	29		
2-Jul	1.7	69	45	3.5	
10-Jul	1.6	67	48	3.5	
18-Jul		87	47	3	
19-Jul	1.8	103		3	storm sample
23-Jul	1.65	95	61	4.5	
30-Jul	1.8	106	60	5	storm sample
31-Jul	1.63	55	37		
6-Aug	1.47		91	55	14
13-Aug	1.36		64	40	8
20-Aug	1.65		22	21	1.5
27-Aug	2.25				
9-Sep	1.87		58	44	
15-Sep			48	38	
22-Sep	1.05		85	50	
14-Oct	1.86				
18-Oct	1.7		51		
27-Oct	1.8		44	24	0
3-Nov	1.7		46	26	4
9-Nov	1.64		31	34	3.5 based upon 11/4 reading
18-Nov	1.59		36	23	2
24-Nov	1.6		34	23	2
2-Dec	1.7		61		10
9-Dec			40	27	3 ice
16-Dec	1.58		31	23	2
27-Dec	X	X	X	X	frozen over

Site: PR 6 Outlet from Detroit Lake

Date	Gauge	totphos	ortho
14-Jan	1.3	8	4
31-Jan	1.18		
4-Feb	1.2	13	4
11-Feb	1.2	13	2
18-Feb	1.3	17	4
25-Feb	1.18	12	6
3-Mar	1.17	10	4
10-Mar	1.17	15	4
18-Mar	1.15	13	2
25-Mar	1.17	16	6
1-Apr	1.22	18	
8-Apr	1.50	14	6
15-Apr	1.90	20	
21-Apr	1.95	13	10
28-Apr	2.05	24	4
5-May	1.90	24	9
13-May	1.80		
30-May	1.70		
5-Jun	1.76	32	4
11-Jun	1.70	23	6
18-Jun	1.70	22	6
26-Jun	1.50	25	8
2-Jul	1.46	12	6
10-Jul	1.25	25	6
18-Jul	1.20	36	5
23-Jul	1.28	23	4
31-Jul	1.20	23	5
6-Aug	1.13	20	5
13-Aug	1.90	18	2
8/20	0.98	12	9
8/27	0.09		
9/9	0.90	23	9
9/15	0.86	21	4
9/22	0.90	23	9
10/7	0.76	15	
10/14	1.07	15	10
10/18	1.10	20	
10/27	1.23	20	7
11/3	1.27	14	6
11/9	1.28	18	7
11/18	1.36	23	12
11/24	1.25	21	9
12/2	1.28	21	
12/9	1.25	32	15
12/16	1.20	18	12
12/27	1.20	18	1

Site: PR 7 Muskrat outlet at Dunton Locks

Date	Gauge	totphos	ortho	
14-Jan	4.3	15	7	
31-Jan	4.2			
4-Feb	4.26	10	9	
11-Feb	4.3	20	6	
18-Feb	4.24	18	6	
25-Feb	4.24	21	7	
3-Mar	4.22	21	10	
10-Mar	4.22	28	9	2
18-Mar	4.2	32	9	
25-Mar	4.22	36	18	
1-Apr	4.22	34		1.5
8-Apr	4.52	76	94	5.5
15-Apr	4.9	42		3.5
21-Apr	4.9	23	10	2
28-Apr	4.9	31	6	1.5
5-May	4.8	31	7	2
13-May	4.7	34		3.5
30-May	4.6	29	4	
5-Jun	4.56	52	6	0.5
11-Jun	4.5	47	13	12
18-Jun	4.56	38	7	0.5
26-Jun	4.4	23	20	
2-Jul	4.33	30	6	0.5
10-Jul	3.15	31	4	2.5
18-Jul	4.15	48	9	2
23-Jul	4.28	36	2	3
31-Jul	4.2	37	7	
6-Aug	4.14	32	5	2.5
13-Aug	4.04	67	6	5.5
20-Aug	3.96	33	15	5.5
27-Aug	3.92			
9-Sep	3.9	39	12	
15-Sep	3.88	39	5	2.5
22-Sep		33	12	3
18-Oct		32		2.5
3-Nov		38	17	5
9-Nov		14	12	2.5
18-Nov		87	10	2
24-Nov		23	9	4
2-Dec		23		6.5
9-Dec		20	7	0.5
16-Dec		13	8	1.5
27-Dec		15	1	0.5

no gage available
coffer dam installed
one bay open

Site:PR 8 Sallie Outlet at Shoreham

Date	Gauge	totphos	ortho
14-Jan	1.6	12	9
31-Jan	1.65		
4-Feb	1.6	21	13
11-Feb	1.6	21	9
18-Feb	1.6	25	13
25-Feb	1.6	23	10
3-Mar	1.55	23	10
10-Mar	1.50	23	12
18-Mar	1.50	26	12
25-Mar	1.50	23	13
1-Apr	1.50	24	
8-Apr	1.65	16	9
15-Apr	1.95	24	
21-Apr	2.10	24	9
28-Apr	2.35	31	6
5-May	2.40	31	9
13-May	2.40	29	
30-May	2.10	18	2
5-Jun	2.25	32	4
11-Jun	2.20	23	6
18-Jun	2.20	18	6
26-Jun	2.10	36	13
2-Jul	2.00	20	7
10-Jul	1.75	44	7
18-Jul	1.90	48	7
23-Jul	1.84	39	4
31-Jul	1.74	36	9
6-Aug	1.65	69	12
13-Aug	1.60	39	9
20-Aug	1.65	31	12
27-Aug	1.40		
9-Sep	1.80	45	12
15-Sep	1.30	42	9
22-Sep	1.10	38	7
7-Oct	1.20	26	
14-Oct	1.25	18	7
18-Oct	1.35	26	
27-Oct	1.30	28	9
3-Nov	1.38	27	13
9-Nov	1.26	23	4
18-Nov	1.40	51	13
24-Nov	1.40	58	12
2-Dec	1.68	24	
9-Dec	1.70	21	9
16-Dec	1.87	21	4
27-Dec	1.60	20	4

Site: PR 9 @ Melissa Beach Resort

Date	Gauge	totphos	ortho	suspsol
14-Jan	1.75	24	13	1
31-Jan	1.6			
4-Feb	1.66	15	12	
11-Feb	1.65	20	7	
18-Feb	1.7	15	10	
25-Feb	1.6	20	9	
3-Mar	1.7	16	9	
10-Mar	1.57	18	7	
18-Mar	1.5	26	12	
25-Mar	1.57	16	9	
1-Apr	1.56	26		
8-Apr	1.7	12	4	
15-Apr	1.9	18		
21-Apr	2	23	9	
28-Apr	2.25	23	0	
5-May	2.34	24	12	
13-May	2.4	24		
30-May	2.3	18	2	
5-Jun	2.35	39	6	
11-Jun	1.4	18	4	
18-Jun	1.4	20	4	
26-Jun	2.2	38	6	
2-Jul	2.2	17	6	
10-Jul	2.1	27	7	
18-Jul	1.9	55	7	
23-Jul	1.95	35	4	
31-Jul	1.8	24	5	
6-Aug	1.77	26	5	
13-Aug	1.6	31	6	
20-Aug	1.56	25	7	
27-Aug	1.4			
9-Sep	1.4	34	13	
15-Sep	1.36	31	7	
22-Sep	1.4	27	10	
7-Oct	1.25	23		
14-Oct	1.36	18	9	
18-Oct	1.04	26		
27-Oct	1.38	23	7	
3-Nov	1.45	28	10	
9-Nov	1.58	15	7	
18-Nov	1.47	31	9	
24-Nov	1.5	23	9	
2-Dec	1.57	21		
9-Dec	1.6	21	10	
16-Dec	1.3	16	4	
27-Dec	1.65	24	4	

Site: P-W @ Pavilion West, Washington Ave

Date	Gauge	totphos	ortho	
18-Jul		163	105	1492
30-Jul		1887	832	

Site: P-E @ Pavilion East, Picnic Area

Date	Gauge	totphos	ortho	
18-Jul	---	174	103	1340
30-Jul		1664	863	

Site: SC 3 @ St. Clair Outlet at HWY 59, Putt N Bump

Date	Gauge	totphos	ortho	
15-Apr		84		
8-May		79		
13-May	3.60	76		
30-May	3.70	289	194	
5-Jun	3.50	63	12	
7-Jun	3.50	58		
11-Jun	3.35	69	17	
18-Jun	3.45	59	15	
26-Jun	3.30	57	23	
2-Jul	3.33	49	12	Blew out dams on July 1
10-Jul		65	26	
18-Jul	3.10			
23-Jul	3.40	69	7	
31-Jul	3.30	85	15	
6-Aug	3.15	83	18	
13-Aug	2.90	75	18	
20-Aug	2.92	65	26	
27-Aug	2.90			
15-Sep	2.80	58	12	
22-Sep	3.00	72	29	
10/7		44		
10/14	3.25	56	10	
10/18	3.30	44		
10/27	3.25	51	15	
11/3	3.28	49	18	
11/9	3.24	32	15	
11/18	3.76	67	44	
11/24	3.60	50	18	
12/2		42		ice
12/9	3.40	31	10	
12/16	3.20	44	9	
12/27	X	34	4	

Site: SC 3 a @ Ditch 14 at Cty Rd 6 sample downstream

Date	Gauge	TP	OP	SS
16-Apr		84		4
30-May	2.9	76	17	4
5-Jun	2.9	109	37	
7-Jun		76		
11-Jun	2.9	103	64	
18-Jun	3.1	106	61	
26-Jun	2.95	328	226	<Poor Sample
2-Jul	2.87	72	37	
10-Jul	2.6	78	47	
18-Jul	2.5	98	27	
23-Jul	2.7	104	13	
31-Jul	2.7	93	18	
6-Aug	1.58	98	18	
13-Aug	2.5	88	17	
20-Aug	2.36	62	20	
27-Aug	2.25			

Site: SC4 @ Ditch 14 outlet to PR

Date	Gauge	TP	OP	SS	
14-Jan	frozen	16	18		
18-Mar		89	58	3	
1-Apr	0.9	100		3.5	
8-Apr	1.22	199	156	7.5	
11-Apr		128		9	
15-Apr	1.6	90		4	
16-Apr		81			
21-Apr	1.6	76	21	4	
28-Apr	1.7	76	6	3	
5-May	1.57	77	17	9	
8-May		92			
13-May	1.4	106		8.5	
30-May	1.3	93	50	6	
5-Jun	1.37	90	58	0.5	
7-Jun		90		2.5	
11-Jun	1.3	131	100	0.5	
18-Jun	1.4	133	106	10	
26-Jun	1.2	132	108		
2-Jul	1.12	99	72		
10-Jul	0.9	98	58	4	
18-Jul	0.9	114	44	5	
23-Jul	0.92	145	23	12.5	
31-Jul	0.94	98	16		
6-Aug	0.82	109	18	18	Bog partially blocking upstream, high amount of
13-Aug	0.74	101	18	15	
20-Aug	0.65	73	15	16	
8/27	0.65				
9/9		75	32		
9/15		53	10	5	
9/22	0.75	64	23	5.5	
10/7		44			
10/14	0.9	71	19	9.5	
10/18	0.84	64			
10/27	0.9	55	21	5.5	
11/3	1.05	62	7	7	
11/9	0.94	49	21	5.5	
11/18	1.09	66	24	17.5	
11/24	1	44	10	8	
12/2	0.97	36		7.5	
12/9		31	10		ice
12/16		28	1	3.5	ice
12/27	XX	34	7	3	ice

Site: SE 1 @ Drainage from Lind Lake at Hwy 59

ortho 1.82

Date Gauge totphos ortho

Site: LL 1 @ Long Lake Outlet Gauge Zero = 1342.00

Date Gauge totphos ortho

Comments:

Date	Gauge		totphos		comments
	Upstream	dwnstream			
30-May	1.1				
5-Jun	1.2		39	17	1.5
11-Jun	1.15		44	28	
11-Jun	1.25		51	47	
18-Jun	1.1				storm sample
26-Jun	1				
2-Jul	0.85		43	36	
10-Jul	0.85		39	17	5.5
18-Jul	0.6		47	32	0.5
19-Jul	0.8		74	28	3
23-Jul	0.85		64	52	14
30-Jul	0.76		80		storm sample storm sample
6-Aug	0.75		47	33	2.5
13-Aug	0.6		43	37	4
8/20/2001	0.74		23	26	2.5
27-Aug	0.7				