



ENGINEERING

PLANNING

SURVEYING

Waterbury

Detention Study

Prepared For:
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RECORD KE-
 REVEN 1/13/05
 BY CH & F.G.
 1/14/05



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PRE-DEVELOPED SITE RUNOFF

54.85 acres	x	1.15 (2yr-20min)	=	63.08 cfs
	x	1.87 (15yr-20min)	=	102.57 cfs
	x	2.31 (25yr-20min)	=	126.70 cfs
	x	2.95 (100yr-20min)	=	161.81 cfs

POST-DEVELOPED SITE RUNOFF

Residential

30.62 acres	x	1.76 (2yr-20min)	=	53.89 cfs
	x	2.90 (15yr-20min)	=	88.80 cfs
	x	3.58 (25yr-20min)	=	109.62 cfs
	x	4.58 (100yr-20min)	=	140.24 cfs

Commercial

24.23 acres	x	2.39 (2yr-20min)	=	57.91 cfs
	x	3.85 (15yr-20min)	=	93.29 cfs
	x	4.75 (25yr-20min)	=	115.09 cfs
	x	6.08 (100yr-20min)	=	147.32 cfs

DIFFERENTIAL RUNOFF (required attenuation)

2yr-20min	53.89 +	57.91 -	63.08 =	48.72 cfs
15yr-20min	88.80 +	93.29 -	102.5 =	79.52 cfs
25yr-20min	109.62 +	115.09 -	126.70 =	98.01 cfs
100yr-20min	140.24 +	147.32 -	161.81 =	125.75 cfs



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LAKE "B" SUMMARY

2yr-20min Storm

Peak Inflow	59.73 cfs
Peak Outflow	26.94 cfs
Attenuation	32.79 cfs
H.W. Elev.	514.48 ft
Freeboard	3.27 ft

15yr-20min Storm

P Peak Inflow	96.63 cfs
Peak Outflow	52.72 cfs
Attenuation	43.91 cfs
H.W. Elev.	515.20 ft
Freeboard	2.55 ft

25yr-20min Storm

Peak Inflow	119.24 cfs
Peak Outflow	77.97 cfs
Attenuation	41.27 cfs
H.W. Elev.	515.53 ft
Freeboard	2.22 ft

100yr-20min Storm

P Peak Inflow	152.61 cfs
Peak Outflow	115.53 cfs
Attenuation	37.08 cfs
H.W. Elev.	515.93 ft
Freeboard	1.82 ft



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LAKE "C" SUMMARY

Peak inflow from storm sewers into basin and peak outflow from Lake B (see addition of hydrograph in following data).

2yr-20min Storm

Peak Inflow	61.02 cfs
Peak Outflow	26.13 cfs
Attenuation	28.23 cfs
H.W. Elev.	511.20 ft
Freeboard	4.05 ft

15yr-20min Storm

Peak Inflow	106.42 cfs
Peak Outflow	55.04 cfs
Attenuation	51.38 cfs
H.W. Elev.	512.34 ft
Freeboard	2.91 ft

25yr-20min Storm

Peak Inflow	144.95 cfs
Peak Outflow	79.73 cfs
Attenuation	65.22 cfs
H.W. Elev.	513.03 ft
Freeboard	2.22 ft

100yr-20min Storm

Peak Inflow	204.14 cfs
Peak Outflow	129.77 cfs
Attenuation	74.37 cfs
H.W. Elev.	513.93 ft
Freeboard	1.32 ft



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WATERBURY DETENTION SUMMARY

2yr-20min Storm

Inflow

59.73 cfs	(Lake B)
<u>36.71 cfs</u>	<u>(Lake C)</u>
96.44 cfs	Total

Peak Outflow
Attenuation

26.13 cfs	
70.31 cfs	(48.72 cfs required)

15yr-20min Storm

Inflow

96.63 cfs	(Lake B)
<u>59.87 cfs</u>	<u>(Lake C)</u>
156.50 cfs	Total

Peak Outflow
Attenuation

55.04 cfs	
101.46 cfs	(79.52 cfs required)

25yr-20min Storm

Inflow

119.24 cfs	(Lake B)
<u>73.88 cfs</u>	<u>(Lake C)</u>
193.12 cfs	Total

Peak Outflow
Attenuation

79.73 cfs	
113.39 cfs	(98.01 cfs required)

100yr-20min Storm

Inflow

152.61 cfs	(Lake B)
<u>94.74 cfs</u>	<u>(Lake C)</u>
247.35 cfs	Total

Peak Outflow
Attenuation

129.77 cfs	
117.58 cfs	(125.75 cfs required)

POND-2 Version: 5.20

S/N:

WATERBURY
DETENTION ANALYSIS
LAKE B
FEBRUARY 2000

CALCULATED 02-23-2000 07:03:05
DISK FILE: E:\PONDPACK\9713\LAKE-B .VOL

Planimeter scale: 1 inch = 1 ft.

Elevation (ft)	Planimeter (sq.in.)	Area (sq.ft)	$A1+A2+\text{sqr}(A1*A2)$ (sq.ft)	* Volume (cubic-ft)	Volume Sum (cubic-ft)
513.00	34,346.00	34,346	0	0	0
514.00	36,903.00	36,903	106,851	35,617	35,617
516.00	42,217.00	42,217	118,591	79,060	114,677
517.00	44,973.00	44,973	130,763	43,588	158,265

* Incremental volume computed by the Conic Method for Reservoir Volumes.

Outlet Structure File: LAKE-B .STR

POND-2 Version: 5.20

S/N:

Date Executed:

Time Executed:

WATERBURY
DETENTION ANALYSIS
LAKE B
FEBRUARY 2000

***** COMPOSITE OUTFLOW SUMMARY *****

Elevation (ft)	Q (cfs)	Contributing Structures
513.00	0.0	1
513.10	0.5	1
513.20	1.3	1
513.30	2.5	1
513.40	3.8	1
513.50	5.3	1
513.60	7.0	1
513.70	8.8	1
513.80	10.7	1
513.90	12.8	1
514.00	15.0	1
514.10	17.3	1
514.20	19.7	1
514.30	22.2	1
514.40	24.8	1
514.50	27.6	1
514.60	30.4	1
514.70	33.2	1
514.80	36.2	1
514.90	39.3	1
515.00	42.4	1 +2
515.10	47.1	1 +2
515.20	53.0	1 +2
515.30	59.7	1 +2
515.40	67.2	1 +2
515.50	75.2	1 +2
515.60	83.8	1 +2
515.70	92.9	1 +2
515.80	102.5	1 +2
515.90	112.5	1 +2
516.00	122.9	1 +2
516.10	133.8	1 +2
516.20	145.0	1 +2
516.30	156.6	1 +2
516.40	168.6	1 +2
516.50	180.9	1 +2
516.60	193.5	1 +2
516.70	206.5	1 +2
516.80	219.8	1 +2



1 2
2 3

Outlet Structure File: LAKE-B .STR

POND-2 Version: 5.20

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Time Executed:

 WATERBURY
 DETENTION ANALYSIS
 LAKE B
 FEBRUARY 2000

Outlet Structure File: E:\PONDPACK\9713\LAKE-B .STR
 Planimeter Input File: E:\PONDPACK\9713\LAKE-B .VOL
 Rating Table Output File: E:\PONDPACK\9713\LAKE-B .PND

Min. Elev.(ft) = 513 Max. Elev.(ft) = 517 Incr.(ft) = .1

Additional elevations (ft) to be included in table:
 * * * * *

 SYSTEM CONNECTIVITY

Structure	No.	Q Table	Q Table
-----	---	-----	-----
WEIR-VR	1	->	1
WEIR-VR	2	->	2

Outflow rating table summary was stored in file:
 E:\PONDPACK\9713\LAKE-B .PND

Outlet Structure File: LAKE-B .STR

POND-2 Version: 5.20

S/N:

Date Executed:

Time Executed:

WATERBURY
DETENTION ANALYSIS
LAKE B
FEBRUARY 2000

>>>>> Structure No. 1 <<<<<<
(Input Data)

WEIR-VR
Weir - Vertical Rectangular

E1 elev. (ft)?	513
E2 elev. (ft)?	517.001
Weir coefficient?	3
Weir elev. (ft)?	513
Length (ft)?	5
Contracted/Suppressed (C/S)?	S

Outlet Structure File: LAKE-B .STR

POND-2 Version: 5.20

S/N:

Date Executed:

Time Executed:

WATERBURY
DETENTION ANALYSIS
LAKE B
FEBRUARY 2000

>>>>> Structure No. 2 <<<<<<
(Input Data)

WEIR-VR
Weir - Vertical Rectangular

E1 elev. (ft)?	515
E2 elev. (ft)?	517.001
Weir coefficient?	3
Weir elev. (ft)?	515
Length (ft)?	15
Contracted/Suppressed (C/S)?	S

Outlet Structure File: LAKE-B .STR

POND-2 Version: 5.20

S/N:

Date Executed:

Time Executed:

WATERBURY
DETENTION ANALYSIS
LAKE B
FEBRUARY 2000

Outflow Rating Table for Structure #1
WEIR-VR Weir - Vertical Rectangular

***** INLET CONTROL ASSUMED *****

Elevation (ft)	Q (cfs)	Computation Messages
513.00	0.0	H =0.0
513.10	0.5	H =.1
513.20	1.3	H =.2
513.30	2.5	H =.3
513.40	3.8	H =.4
513.50	5.3	H =.5
513.60	7.0	H =.6
513.70	8.8	H =.7
513.80	10.7	H =.8
513.90	12.8	H =.9
514.00	15.0	H =1.0
514.10	17.3	H =1.1
514.20	19.7	H =1.2
514.30	22.2	H =1.3
514.40	24.8	H =1.4
514.50	27.6	H =1.5
514.60	30.4	H =1.6
514.70	33.2	H =1.7
514.80	36.2	H =1.8
514.90	39.3	H =1.9
515.00	42.4	H =2.0
515.10	45.6	H =2.1
515.20	48.9	H =2.2
515.30	52.3	H =2.3
515.40	55.8	H =2.4
515.50	59.3	H =2.5
515.60	62.9	H =2.6
515.70	66.5	H =2.7
515.80	70.3	H =2.8
515.90	74.1	H =2.9
516.00	77.9	H =3.0
516.10	81.9	H =3.1
516.20	85.9	H =3.2
516.30	89.9	H =3.3

Outlet Structure File: LAKE-B .STR

POND-2 Version: 5.20

S/N:

Date Executed:

Time Executed:

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Outflow Rating Table for Structure #1
WEIR-VR Weir - Vertical Rectangular

***** INLET CONTROL ASSUMED *****

Elevation (ft)	Q (cfs)	Computation Messages
516.40	94.0	H =3.4
516.50	98.2	H =3.5
516.60	102.5	H =3.6
516.70	106.8	H =3.7
516.80	111.1	H =3.8
516.90	115.5	H =3.9
517.00	120.0	H =4.0

C = 3 L (ft) = 5

H (ft) = Table elev. - Invert elev. (513 ft)

Q (cfs) = C * L * (H**1.5) -- Suppressed Weir

Outlet Structure File: LAKE-B .STR

POND-2 Version: 5.20

S/N:

Date Executed:

Time Executed:

WATERBURY
DETENTION ANALYSIS
LAKE B
FEBRUARY 2000

Outflow Rating Table for Structure #2
WEIR-VR Weir - Vertical Rectangular

***** INLET CONTROL ASSUMED *****

Elevation (ft)	Q (cfs)	Computation Messages
513.00	0.0	E < Inv.El. = 515
513.10	0.0	E < Inv.El. = 515
513.20	0.0	E < Inv.El. = 515
513.30	0.0	E < Inv.El. = 515
513.40	0.0	E < Inv.El. = 515
513.50	0.0	E < Inv.El. = 515
513.60	0.0	E < Inv.El. = 515
513.70	0.0	E < Inv.El. = 515
513.80	0.0	E < Inv.El. = 515
513.90	0.0	E < Inv.El. = 515
514.00	0.0	E < Inv.El. = 515
514.10	0.0	E < Inv.El. = 515
514.20	0.0	E < Inv.El. = 515
514.30	0.0	E < Inv.El. = 515
514.40	0.0	E < Inv.El. = 515
514.50	0.0	E < Inv.El. = 515
514.60	0.0	E < Inv.El. = 515
514.70	0.0	E < Inv.El. = 515
514.80	0.0	E < Inv.El. = 515
514.90	0.0	E < Inv.El. = 515
515.00	0.0	H =0.0
515.10	1.4	H =.1
515.20	4.0	H =.2
515.30	7.4	H =.3
515.40	11.4	H =.4
515.50	15.9	H =.5
515.60	20.9	H =.6
515.70	26.4	H =.7
515.80	32.2	H =.8
515.90	38.4	H =.9
516.00	45.0	H =1.0
516.10	51.9	H =1.1
516.20	59.2	H =1.2
516.30	66.7	H =1.3

Outlet Structure File: LAKE-B .STR

POND-2 Version: 5.20

S/N:

Date Executed:

Time Executed:

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Outflow Rating Table for Structure #2
WEIR-VR Weir - Vertical Rectangular

***** INLET CONTROL ASSUMED *****

Elevation (ft)	Q (cfs)	Computation	Messages
516.40	74.5	H =1.4	
516.50	82.7	H =1.5	
516.60	91.1	H =1.6	
516.70	99.7	H =1.7	
516.80	108.7	H =1.8	
516.90	117.9	H =1.9	
517.00	127.3	H =2.0	

C = 3 L (ft) = 15

H (ft) = Table elev. - Invert elev. (515 ft)

Q (cfs) = C * L * (H**1.5) -- Suppressed Weir

 * WATERBURY *
 * DETENTION ANALYSIS *
 * LAKE B *
 * FEBRUARY 2000 *
 * *

Inflow Hydrograph: E:\PONDPACK\9713\2-INX .HYD
 Rating Table file: E:\PONDPACK\9713\LAKE-B .PND

----INITIAL CONDITIONS----
 Elevation = 513.00 ft
 Outflow = 0.00 cfs
 Storage = 0 cu-ft

GIVEN POND DATA

INTERMEDIATE ROUTING
 COMPUTATIONS

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)	2S/t (cfs)	2S/t + 0 (cfs)
513.00	0.0	0	0.0	0.0
513.10	0.5	3,446	114.9	115.4
513.20	1.3	6,920	230.7	232.0
513.30	2.5	10,417	347.2	349.7
513.40	3.8	13,941	464.7	468.5
513.50	5.3	17,489	583.0	588.3
513.60	7.0	21,062	702.1	709.1
513.70	8.8	24,663	822.1	830.9
513.80	10.7	28,288	942.9	953.6
513.90	12.8	31,940	1064.7	1077.5
514.00	15.0	35,617	1187.2	1202.2
514.10	17.3	39,319	1310.6	1327.9
514.20	19.7	43,049	1435.0	1454.7
514.30	22.2	46,803	1560.1	1582.3
514.40	24.8	50,585	1686.2	1711.0
514.50	27.6	54,391	1813.0	1840.6
514.60	30.4	58,223	1940.8	1971.2
514.70	33.2	62,083	2069.4	2102.6
514.80	36.2	65,968	2198.9	2235.1
514.90	39.3	69,881	2329.4	2368.7
515.00	42.4	73,819	2460.6	2503.0
515.10	47.1	77,782	2592.7	2639.8
515.20	53.0	81,775	2725.8	2778.8
515.30	59.7	85,793	2859.8	2919.5
515.40	67.2	89,839	2994.6	3061.8
515.50	75.2	93,910	3130.3	3205.5
515.60	83.8	98,008	3266.9	3350.7
515.70	92.9	102,136	3404.5	3497.4
515.80	102.5	106,288	3542.9	3645.4
515.90	112.5	110,470	3682.3	3794.8
516.00	122.9	114,677	3822.6	3945.5

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)
516.10	133.8	118,911
516.20	145.0	123,175
516.30	156.6	127,464
516.40	168.6	131,783
516.50	180.9	136,127
516.60	193.5	140,498
516.70	206.5	144,899
516.80	219.8	149,326
516.90	233.4	153,783
517.00	247.3	158,265

INTERMEDIATE ROUTING
 COMPUTATIONS

2S/t (cfs)	2S/t + 0 (cfs)
3963.7	4097.5
4105.8	4250.8
4248.8	4405.4
4392.8	4561.4
4537.5	4718.4
4683.3	4876.8
4830.0	5036.5
4977.5	5197.3
5126.1	5359.5
5275.5	5522.8

Time increment (t) = 1.0 min.

POND-2 Version: 5.20 S/N:
 EXECUTED: 02-23-2000 07:07:57

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 Return Freq: 2 years

Pond File: E:\PONDPACK\9713\LAKE-B .PND
 Inflow Hydrograph: E:\PONDPACK\9713\2-INX .HYD
 Outflow Hydrograph: E:\PONDPACK\9713\2-OUTX .HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	0.00	---	0.0	0.0	0.00	513.00
1.0	11.95	12.0	11.8	12.0	0.05	513.01
2.0	23.89	35.8	47.3	47.7	0.21	513.04
3.0	35.84	59.7	106.1	107.0	0.46	513.09
4.0	47.78	83.6	187.7	189.7	1.01	513.16
5.0	59.73	107.5	291.3	295.2	1.94	513.25
6.0	59.73	119.5	404.4	410.8	3.17	513.35
7.0	59.73	119.5	514.9	523.9	4.49	513.45
8.0	59.73	119.5	622.5	634.4	5.95	513.54
9.0	59.73	119.5	726.9	741.9	7.49	513.63
10.0	59.73	119.5	828.3	846.4	9.04	513.71
11.0	59.73	119.5	926.6	947.8	10.61	513.80
12.0	59.73	119.5	1021.5	1046.0	12.27	513.87
13.0	59.73	119.5	1113.1	1141.0	13.92	513.95
14.0	59.73	119.5	1201.5	1232.6	15.56	514.02
15.0	59.73	119.5	1286.6	1320.9	17.17	514.09
16.0	59.73	119.5	1368.5	1406.0	18.78	514.16
17.0	59.73	119.5	1447.2	1487.9	20.35	514.23
18.0	59.73	119.5	1522.9	1566.7	21.89	514.29
19.0	59.73	119.5	1595.5	1642.4	23.41	514.35
20.0	59.73	119.5	1665.2	1715.0	24.89	514.40
21.0	47.78	107.5	1720.5	1772.7	26.13	514.45
22.0	35.84	83.6	1750.5	1804.1	26.81	514.47
23.0	23.89	59.7	1756.3	1810.2	26.94	514.48
24.0	11.95	35.8	1739.0	1792.2	26.55	514.46
25.0	0.00	12.0	1699.7	1751.0	25.66	514.43
26.0	0.00	0.0	1650.5	1699.7	24.57	514.39
27.0	0.00	0.0	1603.4	1650.5	23.58	514.35
28.0	0.00	0.0	1558.1	1603.4	22.63	514.32
29.0	0.00	0.0	1514.7	1558.1	21.73	514.28
30.0	0.00	0.0	1472.9	1514.7	20.88	514.25
31.0	0.00	0.0	1432.8	1472.9	20.06	514.21
32.0	0.00	0.0	1394.2	1432.8	19.29	514.18
33.0	0.00	0.0	1357.1	1394.2	18.56	514.15
34.0	0.00	0.0	1321.4	1357.1	17.85	514.12
35.0	0.00	0.0	1287.1	1321.4	17.18	514.09
36.0	0.00	0.0	1253.9	1287.1	16.55	514.07
37.0	0.00	0.0	1222.1	1253.9	15.95	514.04
38.0	0.00	0.0	1191.3	1222.1	15.36	514.02
39.0	0.00	0.0	1161.7	1191.3	14.81	513.99
40.0	0.00	0.0	1133.1	1161.7	14.29	513.97
41.0	0.00	0.0	1105.6	1133.1	13.78	513.94
42.0	0.00	0.0	1079.0	1105.6	13.30	513.92
43.0	0.00	0.0	1053.3	1079.0	12.83	513.90
44.0	0.00	0.0	1028.6	1053.3	12.39	513.88

Pond File: E:\PONDPACK\9713\LAKE-B .PND
 Inflow Hydrograph: E:\PONDPACK\9713\2-INX .HYD
 Outflow Hydrograph: E:\PONDPACK\9713\2-OUTX .HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
45.0	0.00	0.0	1004.6	1028.6	11.97	513.86
46.0	0.00	0.0	981.5	1004.6	11.56	513.84
47.0	0.00	0.0	959.1	981.5	11.17	513.82
48.0	0.00	0.0	937.6	959.1	10.79	513.80
49.0	0.00	0.0	916.6	937.6	10.45	513.79
50.0	0.00	0.0	896.4	916.6	10.13	513.77
51.0	0.00	0.0	876.8	896.4	9.81	513.75
52.0	0.00	0.0	857.7	876.8	9.51	513.74
53.0	0.00	0.0	839.3	857.7	9.22	513.72
54.0	0.00	0.0	821.5	839.3	8.93	513.71
55.0	0.00	0.0	804.1	821.5	8.66	513.69
56.0	0.00	0.0	787.3	804.1	8.40	513.68
57.0	0.00	0.0	771.0	787.3	8.16	513.66
58.0	0.00	0.0	755.2	771.0	7.92	513.65
59.0	0.00	0.0	739.8	755.2	7.68	513.64
60.0	0.00	0.0	724.9	739.8	7.45	513.63

***** SUMMARY OF ROUTING COMPUTATIONS *****

Pond File: E:\PONDPACK\9713\LAKE-B .PND
Inflow Hydrograph: E:\PONDPACK\9713\2-INX .HYD
Outflow Hydrograph: E:\PONDPACK\9713\2-OUTX .HYD

Starting Pond W.S. Elevation = 513.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow = 59.73 cfs
Peak Outflow = 26.94 cfs
Peak Elevation = 514.48 ft

***** Summary of Approximate Peak Storage *****

Initial Storage = 0 cu-ft
Peak Storage From Storm = 53,497 cu-ft

Total Storage in Pond = 53,497 cu-ft

 * WATERBURY *
 * DETENTION ANALYSIS *
 * LAKE B *
 * FEBRUARY 2000 *
 * *****

Inflow Hydrograph: E:\PONDPACK\9713\15-INX .HYD
 Rating Table file: E:\PONDPACK\9713\LAKE-B .PND

----INITIAL CONDITIONS----
 Elevation = 513.00 ft
 Outflow = 0.00 cfs
 Storage = 0 cu-ft

GIVEN POND DATA

INTERMEDIATE ROUTING
 COMPUTATIONS

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)	2S/t (cfs)	2S/t + 0 (cfs)
513.00	0.0	0	0.0	0.0
513.10	0.5	3,446	114.9	115.4
513.20	1.3	6,920	230.7	232.0
513.30	2.5	10,417	347.2	349.7
513.40	3.8	13,941	464.7	468.5
513.50	5.3	17,489	583.0	588.3
513.60	7.0	21,062	702.1	709.1
513.70	8.8	24,663	822.1	830.9
513.80	10.7	28,288	942.9	953.6
513.90	12.8	31,940	1064.7	1077.5
514.00	15.0	35,617	1187.2	1202.2
514.10	17.3	39,319	1310.6	1327.9
514.20	19.7	43,049	1435.0	1454.7
514.30	22.2	46,803	1560.1	1582.3
514.40	24.8	50,585	1686.2	1711.0
514.50	27.6	54,391	1813.0	1840.6
514.60	30.4	58,223	1940.8	1971.2
514.70	33.2	62,083	2069.4	2102.6
514.80	36.2	65,968	2198.9	2235.1
514.90	39.3	69,881	2329.4	2368.7
515.00	42.4	73,819	2460.6	2503.0
515.10	47.1	77,782	2592.7	2639.8
515.20	53.0	81,775	2725.8	2778.8
515.30	59.7	85,793	2859.8	2919.5
515.40	67.2	89,839	2994.6	3061.8
515.50	75.2	93,910	3130.3	3205.5
515.60	83.8	98,008	3266.9	3350.7
515.70	92.9	102,136	3404.5	3497.4
515.80	102.5	106,288	3542.9	3645.4
515.90	112.5	110,470	3682.3	3794.8
516.00	122.9	114,677	3822.6	3945.5

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)
516.10	133.8	118,911
516.20	145.0	123,175
516.30	156.6	127,464
516.40	168.6	131,783
516.50	180.9	136,127
516.60	193.5	140,498
516.70	206.5	144,899
516.80	219.8	149,326
516.90	233.4	153,783
517.00	247.3	158,265

INTERMEDIATE ROUTING
 COMPUTATIONS

2S/t (cfs)	2S/t + 0 (cfs)
3963.7	4097.5
4105.8	4250.8
4248.8	4405.4
4392.8	4561.4
4537.5	4718.4
4683.3	4876.8
4830.0	5036.5
4977.5	5197.3
5126.1	5359.5
5275.5	5522.8

Time increment (t) = 1.0 min.

Pond File: E:\PONDPACK\9713\LAKE-B .PND
 Inflow Hydrograph: E:\PONDPACK\9713\15-INX .HYD
 Outflow Hydrograph: E:\PONDPACK\9713\15-OUTX .HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	0.00	-----	0.0	0.0	0.00	513.00
1.0	19.33	19.3	19.2	19.3	0.08	513.02
2.0	38.65	58.0	76.5	77.1	0.33	513.07
3.0	57.98	96.6	171.3	173.1	0.90	513.15
4.0	77.30	135.3	302.5	306.6	2.06	513.26
5.0	96.63	173.9	468.6	476.4	3.90	513.41
6.0	96.63	193.3	649.2	661.9	6.34	513.56
7.0	96.63	193.3	824.5	842.5	8.98	513.71
8.0	96.63	193.3	994.2	1017.8	11.79	513.85
9.0	96.63	193.3	1158.0	1187.4	14.74	513.99
10.0	96.63	193.3	1315.7	1351.2	17.74	514.12
11.0	96.63	193.3	1467.5	1509.0	20.76	514.24
12.0	96.63	193.3	1613.2	1660.7	23.78	514.36
13.0	96.63	193.3	1752.7	1806.4	26.86	514.47
14.0	96.63	193.3	1886.2	1946.0	29.86	514.58
15.0	96.63	193.3	2014.1	2079.5	32.71	514.68
16.0	96.63	193.3	2136.2	2207.3	35.57	514.78
17.0	96.63	193.3	2252.7	2329.5	38.39	514.87
18.0	96.63	193.3	2363.8	2445.9	41.08	514.96
19.0	96.63	193.3	2468.5	2557.0	44.26	515.04
20.0	96.63	193.3	2565.7	2661.8	48.03	515.12
21.0	77.30	173.9	2637.0	2739.7	51.34	515.17
22.0	57.98	135.3	2666.8	2772.3	52.72	515.20
23.0	38.65	96.6	2658.8	2763.4	52.35	515.19
24.0	19.33	58.0	2616.0	2716.7	50.36	515.16
25.0	0.00	19.3	2541.4	2635.3	46.95	515.10
26.0	0.00	0.0	2454.0	2541.4	43.72	515.03
27.0	0.00	0.0	2371.5	2454.0	41.27	514.96
28.0	0.00	0.0	2292.7	2371.5	39.36	514.90
29.0	0.00	0.0	2217.7	2292.7	37.54	514.84
30.0	0.00	0.0	2146.1	2217.7	35.80	514.79
31.0	0.00	0.0	2077.7	2146.1	34.18	514.73
32.0	0.00	0.0	2012.4	2077.7	32.67	514.68
33.0	0.00	0.0	1949.8	2012.4	31.28	514.63
34.0	0.00	0.0	1889.9	1949.8	29.94	514.58
35.0	0.00	0.0	1832.6	1889.9	28.66	514.54
36.0	0.00	0.0	1777.7	1832.6	27.43	514.49
37.0	0.00	0.0	1725.3	1777.7	26.24	514.45
38.0	0.00	0.0	1675.0	1725.3	25.11	514.41
39.0	0.00	0.0	1626.9	1675.0	24.07	514.37
40.0	0.00	0.0	1580.7	1626.9	23.10	514.33
41.0	0.00	0.0	1536.4	1580.7	22.17	514.30
42.0	0.00	0.0	1493.8	1536.4	21.30	514.26
43.0	0.00	0.0	1452.8	1493.8	20.47	514.23
44.0	0.00	0.0	1413.5	1452.8	19.66	514.20

POND-2 Version: 5.20 S/N:
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Page 4
 Return Freq: 15 years

Pond File: E:\PONDPACK\9713\LAKE-B .PND
 Inflow Hydrograph: E:\PONDPACK\9713\15-INX .HYD
 Outflow Hydrograph: E:\PONDPACK\9713\15-OUTX .HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/T - O (cfs)	2S/T + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
45.0	0.00	0.0	1375.7	1413.5	18.92	514.17
46.0	0.00	0.0	1339.3	1375.7	18.20	514.14
47.0	0.00	0.0	1304.2	1339.3	17.51	514.11
48.0	0.00	0.0	1270.5	1304.2	16.87	514.08
49.0	0.00	0.0	1238.0	1270.5	16.25	514.05
50.0	0.00	0.0	1206.7	1238.0	15.65	514.03
51.0	0.00	0.0	1176.5	1206.7	15.08	514.00
52.0	0.00	0.0	1147.4	1176.5	14.55	513.98
53.0	0.00	0.0	1119.4	1147.4	14.03	513.96
54.0	0.00	0.0	1092.3	1119.4	13.54	513.93
55.0	0.00	0.0	1066.2	1092.3	13.06	513.91
56.0	0.00	0.0	1040.9	1066.2	12.61	513.89
57.0	0.00	0.0	1016.6	1040.9	12.18	513.87
58.0	0.00	0.0	993.0	1016.6	11.77	513.85
59.0	0.00	0.0	970.3	993.0	11.37	513.83
60.0	0.00	0.0	948.3	970.3	10.98	513.81

***** SUMMARY OF ROUTING COMPUTATIONS *****

Pond File: E:\PONDPACK\9713\LAKE-B .PND
Inflow Hydrograph: E:\PONDPACK\9713\15-INX .HYD
Outflow Hydrograph: E:\PONDPACK\9713\15-OUTX .HYD

Starting Pond W.S. Elevation = 513.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow = 96.63 cfs
Peak Outflow = 52.72 cfs
Peak Elevation = 515.20 ft

***** Summary of Approximate Peak Storage *****

Initial Storage = 0 cu-ft
Peak Storage From Storm = 81,586 cu-ft

Total Storage in Pond = 81,586 cu-ft

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*****
*
*           WATERBURY           *
*   DETENTION ANALYSIS   *
*           LAKE B           *
*   FEBRUARY 2000       *
*
*****
  
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Inflow Hydrograph: E:\PONDPACK\9713\25-INX .HYD
 Rating Table file: E:\PONDPACK\9713\LAKE-B .PND

----INITIAL CONDITIONS----

Elevation = 513.00 ft
 Outflow = 0.00 cfs
 Storage = 0 cu-ft

GIVEN POND DATA

INTERMEDIATE ROUTING
 COMPUTATIONS

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)	2S/t (cfs)	2S/t + 0 (cfs)
513.00	0.0	0	0.0	0.0
513.10	0.5	3,446	114.9	115.4
513.20	1.3	6,920	230.7	232.0
513.30	2.5	10,417	347.2	349.7
513.40	3.8	13,941	464.7	468.5
513.50	5.3	17,489	583.0	588.3
513.60	7.0	21,062	702.1	709.1
513.70	8.8	24,663	822.1	830.9
513.80	10.7	28,288	942.9	953.6
513.90	12.8	31,940	1064.7	1077.5
514.00	15.0	35,617	1187.2	1202.2
514.10	17.3	39,319	1310.6	1327.9
514.20	19.7	43,049	1435.0	1454.7
514.30	22.2	46,803	1560.1	1582.3
514.40	24.8	50,585	1686.2	1711.0
514.50	27.6	54,391	1813.0	1840.6
514.60	30.4	58,223	1940.8	1971.2
514.70	33.2	62,083	2069.4	2102.6
514.80	36.2	65,968	2198.9	2235.1
514.90	39.3	69,881	2329.4	2368.7
515.00	42.4	73,819	2460.6	2503.0
515.10	47.1	77,782	2592.7	2639.8
515.20	53.0	81,775	2725.8	2778.8
515.30	59.7	85,793	2859.8	2919.5
515.40	67.2	89,839	2994.6	3061.8
515.50	75.2	93,910	3130.3	3205.5
515.60	83.8	98,008	3266.9	3350.7
515.70	92.9	102,136	3404.5	3497.4
515.80	102.5	106,288	3542.9	3645.4
515.90	112.5	110,470	3682.3	3794.8
516.00	122.9	114,677	3822.6	3945.5

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 DISK FILES: 25-INX .HYD ; LAKE-B .PND

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)	2S/t (cfs)	2S/t + 0 (cfs)
516.10	133.8	118,911	3963.7	4097.5
516.20	145.0	123,175	4105.8	4250.8
516.30	156.6	127,464	4248.8	4405.4
516.40	168.6	131,783	4392.8	4561.4
516.50	180.9	136,127	4537.5	4718.4
516.60	193.5	140,498	4683.3	4876.8
516.70	206.5	144,899	4830.0	5036.5
516.80	219.8	149,326	4977.5	5197.3
516.90	233.4	153,783	5126.1	5359.5
517.00	247.3	158,265	5275.5	5522.8

INTERMEDIATE ROUTING
 COMPUTATIONS

Time increment (t) = 1.0 min.

Pond File: E:\PONDPACK\9713\LAKE-B .PND
 Inflow Hydrograph: E:\PONDPACK\9713\25-INX .HYD
 Outflow Hydrograph: E:\PONDPACK\9713\25-OUTX .HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	0.00	---	0.0	0.0	0.00	513.00
1.0	23.85	23.9	23.6	23.9	0.10	513.02
2.0	47.70	71.6	94.4	95.2	0.41	513.08
3.0	71.54	119.2	211.3	213.6	1.17	513.18
4.0	95.39	166.9	372.6	378.2	2.81	513.32
5.0	119.24	214.6	576.6	587.2	5.29	513.50
6.0	119.24	238.5	798.0	815.1	8.57	513.69
7.0	119.24	238.5	1012.2	1036.5	12.10	513.87
8.0	119.24	238.5	1218.9	1250.7	15.89	514.04
9.0	119.24	238.5	1417.9	1457.4	19.75	514.20
10.0	119.24	238.5	1609.0	1656.4	23.70	514.36
11.0	119.24	238.5	1792.0	1847.5	27.75	514.51
12.0	119.24	238.5	1967.1	2030.5	31.66	514.65
13.0	119.24	238.5	2134.6	2205.6	35.53	514.78
14.0	119.24	238.5	2294.2	2373.0	39.40	514.90
15.0	119.24	238.5	2445.9	2532.7	43.42	515.02
16.0	119.24	238.5	2586.4	2684.4	48.99	515.13
17.0	119.24	238.5	2714.5	2824.9	55.19	515.23
18.0	119.24	238.5	2830.0	2953.0	61.46	515.32
19.0	119.24	238.5	2933.4	3068.5	67.57	515.40
20.0	119.24	238.5	3025.2	3171.8	73.32	515.48
21.0	95.39	214.6	3085.4	3239.8	77.97	515.52
22.0	71.54	166.9	3096.4	3252.3	77.97	515.53
23.0	47.70	119.2	3064.0	3215.6	75.80	515.51
24.0	23.85	71.6	2992.9	3135.5	71.30	515.45
25.0	0.00	23.9	2887.1	3016.8	64.83	515.37
26.0	0.00	0.0	2770.8	2887.1	58.16	515.28
27.0	0.00	0.0	2665.5	2770.8	52.66	515.19
28.0	0.00	0.0	2569.1	2665.5	48.19	515.12
29.0	0.00	0.0	2479.8	2569.1	44.67	515.05
30.0	0.00	0.0	2396.0	2479.8	41.86	514.98
31.0	0.00	0.0	2316.2	2396.0	39.93	514.92
32.0	0.00	0.0	2240.0	2316.2	38.08	514.86
33.0	0.00	0.0	2167.4	2240.0	36.31	514.80
34.0	0.00	0.0	2098.1	2167.4	34.67	514.75
35.0	0.00	0.0	2031.9	2098.1	33.10	514.70
36.0	0.00	0.0	1968.5	2031.9	31.69	514.65
37.0	0.00	0.0	1907.8	1968.5	30.34	514.60
38.0	0.00	0.0	1849.7	1907.8	29.04	514.55
39.0	0.00	0.0	1794.1	1849.7	27.79	514.51
40.0	0.00	0.0	1740.9	1794.1	26.60	514.46
41.0	0.00	0.0	1690.0	1740.9	25.45	514.42
42.0	0.00	0.0	1641.3	1690.0	24.38	514.38
43.0	0.00	0.0	1594.5	1641.3	23.39	514.35
44.0	0.00	0.0	1549.6	1594.5	22.45	514.31

Pond File: E:\PONDPACK\9713\LAKE-B .PND
 Inflow Hydrograph: E:\PONDPACK\9713\25- INX .HYD
 Outflow Hydrograph: E:\PONDPACK\9713\25-OUTX .HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
45.0	0.00	0.0	1506.5	1549.6	21.56	514.27
46.0	0.00	0.0	1465.1	1506.5	20.71	514.24
47.0	0.00	0.0	1425.2	1465.1	19.90	514.21
48.0	0.00	0.0	1387.0	1425.2	19.14	514.18
49.0	0.00	0.0	1350.1	1387.0	18.42	514.15
50.0	0.00	0.0	1314.7	1350.1	17.72	514.12
51.0	0.00	0.0	1280.6	1314.7	17.06	514.09
52.0	0.00	0.0	1247.7	1280.6	16.43	514.06
53.0	0.00	0.0	1216.0	1247.7	15.83	514.04
54.0	0.00	0.0	1185.5	1216.0	15.25	514.01
55.0	0.00	0.0	1156.1	1185.5	14.71	513.99
56.0	0.00	0.0	1127.7	1156.1	14.19	513.96
57.0	0.00	0.0	1100.4	1127.7	13.69	513.94
58.0	0.00	0.0	1074.0	1100.4	13.20	513.92
59.0	0.00	0.0	1048.5	1074.0	12.74	513.90
60.0	0.00	0.0	1023.9	1048.5	12.31	513.88

***** SUMMARY OF ROUTING COMPUTATIONS *****

Pond File: E:\PONDPACK\9713\LAKE-B .PND
Inflow Hydrograph: E:\PONDPACK\9713\25-INX .HYD
Outflow Hydrograph: E:\PONDPACK\9713\25-OUTX .HYD

Starting Pond W.S. Elevation = 513.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow = 119.24 cfs
Peak Outflow = 77.97 cfs
Peak Elevation = 515.53 ft

***** Summary of Approximate Peak Storage *****

Initial Storage = 0 cu-ft
Peak Storage From Storm = 95,231 cu-ft

Total Storage in Pond = 95,231 cu-ft

 *
 * WATERBURY *
 * DETENTION ANALYSIS *
 * LAKE B *
 * FEBRUARY 2000 *
 *

Inflow Hydrograph: E:\PONDPACK\9713\100-INX .HYD
 Rating Table file: E:\PONDPACK\9713\LAKE-B .PND

----INITIAL CONDITIONS----
 Elevation = 513.00 ft
 Outflow = 0.00 cfs
 Storage = 0 cu-ft

GIVEN POND DATA

INTERMEDIATE ROUTING
 COMPUTATIONS

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)	2S/t (cfs)	2S/t + 0 (cfs)
513.00	0.0	0	0.0	0.0
513.10	0.5	3,446	114.9	115.4
513.20	1.3	6,920	230.7	232.0
513.30	2.5	10,417	347.2	349.7
513.40	3.8	13,941	464.7	468.5
513.50	5.3	17,489	583.0	588.3
513.60	7.0	21,062	702.1	709.1
513.70	8.8	24,663	822.1	830.9
513.80	10.7	28,288	942.9	953.6
513.90	12.8	31,940	1064.7	1077.5
514.00	15.0	35,617	1187.2	1202.2
514.10	17.3	39,319	1310.6	1327.9
514.20	19.7	43,049	1435.0	1454.7
514.30	22.2	46,803	1560.1	1582.3
514.40	24.8	50,585	1686.2	1711.0
514.50	27.6	54,391	1813.0	1840.6
514.60	30.4	58,223	1940.8	1971.2
514.70	33.2	62,083	2069.4	2102.6
514.80	36.2	65,968	2198.9	2235.1
514.90	39.3	69,881	2329.4	2368.7
515.00	42.4	73,819	2460.6	2503.0
515.10	47.1	77,782	2592.7	2639.8
515.20	53.0	81,775	2725.3	2778.8
515.30	59.7	85,793	2859.3	2919.5
515.40	67.2	89,839	2994.5	3061.8
515.50	75.2	93,910	3130.3	3205.5
515.60	83.8	98,008	3266.9	3350.7
515.70	92.9	102,136	3404.5	3497.4
515.80	102.5	106,288	3542.9	3645.4
515.90	112.5	110,470	3682.3	3794.8
516.00	122.9	114,677	3822.6	3945.5

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)
516.10	133.8	118,911
516.20	145.0	123,175
516.30	156.6	127,464
516.40	168.6	131,783
516.50	180.9	136,127
516.60	193.5	140,498
516.70	206.5	144,899
516.80	219.8	149,326
516.90	233.4	153,783
517.00	247.3	158,265

INTERMEDIATE ROUTING
 COMPUTATIONS

2S/t (cfs)	2S/t + 0 (cfs)
3963.7	4097.5
4105.8	4250.8
4248.8	4405.4
4392.8	4561.4
4537.5	4718.4
4683.3	4876.8
4830.0	5036.5
4977.5	5197.3
5126.1	5359.5
5275.5	5522.8

Time increment (t) = 1.0 min.

Pond File: E:\PONDPACK\9713\LAKE-B .PND
 Inflow Hydrograph: E:\PONDPACK\9713\100-INX .HYD
 Outflow Hydrograph: E:\PONDPACK\9713\100-OUTX.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/T - O (cfs)	2S/T + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	0.00	---	0.0	0.0	0.00	513.00
1.0	30.52	30.5	30.3	30.5	0.13	513.03
2.0	61.04	91.6	120.7	121.8	0.54	513.11
3.0	91.57	152.6	269.9	273.3	1.72	513.24
4.0	122.09	213.7	475.6	483.6	3.99	513.41
5.0	152.61	274.7	735.1	750.3	7.61	513.63
6.0	152.61	305.2	1015.9	1040.3	12.17	513.87
7.0	152.61	305.2	1286.8	1321.2	17.18	514.09
8.0	152.61	305.2	1547.2	1592.0	22.40	514.31
9.0	152.61	305.2	1796.7	1852.5	27.85	514.51
10.0	152.61	305.2	2035.6	2102.0	33.19	514.70
11.0	152.61	305.2	2263.5	2340.8	38.65	514.88
12.0	152.61	305.2	2479.4	2568.7	44.66	515.05
13.0	152.61	305.2	2678.1	2784.6	53.28	515.20
14.0	152.61	305.2	2857.2	2983.3	63.06	515.34
15.0	152.61	305.2	3016.8	3162.4	72.80	515.47
16.0	152.61	305.2	3157.8	3322.0	82.10	515.58
17.0	152.61	305.2	3281.5	3463.0	90.77	515.68
18.0	152.61	305.2	3389.3	3586.7	98.69	515.76
19.0	152.61	305.2	3483.0	3694.6	105.79	515.83
20.0	152.61	305.2	3564.1	3788.2	112.06	515.90
21.0	122.09	274.7	3607.7	3838.8	115.52	515.93
22.0	91.57	213.7	3592.7	3821.4	114.33	515.92
23.0	61.04	152.6	3527.0	3745.3	109.19	515.87
24.0	30.52	91.6	3417.0	3618.5	100.75	515.78
25.0	0.00	30.5	3267.9	3447.5	89.80	515.67
26.0	0.00	0.0	3110.1	3267.9	78.89	515.54
27.0	0.00	0.0	2970.4	3110.1	69.89	515.43
28.0	0.00	0.0	2845.6	2970.4	62.38	515.34
29.0	0.00	0.0	2733.2	2845.6	56.18	515.25
30.0	0.00	0.0	2631.1	2733.2	51.06	515.17
31.0	0.00	0.0	2537.5	2631.1	46.80	515.09
32.0	0.00	0.0	2450.3	2537.5	43.58	515.03
33.0	0.00	0.0	2368.0	2450.3	41.18	514.96
34.0	0.00	0.0	2289.4	2368.0	39.28	514.90
35.0	0.00	0.0	2214.5	2289.4	37.46	514.84
36.0	0.00	0.0	2143.0	2214.5	35.73	514.78
37.0	0.00	0.0	2074.8	2143.0	34.11	514.73
38.0	0.00	0.0	2009.6	2074.8	32.61	514.68
39.0	0.00	0.0	1947.1	2009.6	31.22	514.63
40.0	0.00	0.0	1887.4	1947.1	29.88	514.58
41.0	0.00	0.0	1830.2	1887.4	28.60	514.54
42.0	0.00	0.0	1775.4	1830.2	27.37	514.49
43.0	0.00	0.0	1723.0	1775.4	26.19	514.45
44.0	0.00	0.0	1672.9	1723.0	25.06	514.41

Pond File: E:\PONDPACK\9713\LAKE-B .PND
Inflow Hydrograph: E:\PONDPACK\9713\100-INK .HYD
Outflow Hydrograph: E:\PONDPACK\9713\100-OUTX.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
45.0	0.00	0.0	1624.8	1672.9	24.03	514.37
46.0	0.00	0.0	1578.7	1624.8	23.06	514.33
47.0	0.00	0.0	1534.5	1578.7	22.13	514.30
48.0	0.00	0.0	1491.9	1534.5	21.26	514.26
49.0	0.00	0.0	1451.1	1491.9	20.43	514.23
50.0	0.00	0.0	1411.8	1451.1	19.63	514.20
51.0	0.00	0.0	1374.0	1411.8	18.89	514.17
52.0	0.00	0.0	1337.7	1374.0	18.17	514.14
53.0	0.00	0.0	1302.7	1337.7	17.48	514.11
54.0	0.00	0.0	1269.0	1302.7	16.84	514.08
55.0	0.00	0.0	1236.6	1269.0	16.22	514.05
56.0	0.00	0.0	1205.3	1236.6	15.63	514.03
57.0	0.00	0.0	1175.2	1205.3	15.06	514.00
58.0	0.00	0.0	1146.2	1175.2	14.52	513.98
59.0	0.00	0.0	1118.2	1146.2	14.01	513.96
60.0	0.00	0.0	1091.1	1118.2	13.52	513.93

***** SUMMARY OF ROUTING COMPUTATIONS *****

Pond File: E:\PONDPACK\9713\LAKE-B .PND
Inflow Hydrograph: E:\PONDPACK\9713\100-INX .HYD
Outflow Hydrograph: E:\PONDPACK\9713\100-OUTX.HYD

Starting Pond W.S. Elevation = 513.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow	=	152.61 cfs
Peak Outflow	=	115.53 cfs
Peak Elevation	=	515.93 ft

***** Summary of Approximate Peak Storage *****

Initial Storage	=	0 cu-ft
Peak Storage From Storm	=	111,699 cu-ft

Total Storage in Pond	=	111,699 cu-ft

Executed 03-01-2000 16:42:29

Data directory: e:\pondpack\9713*.HYD

File Summary for Composite Hydrograph

Time (min)	2-OUTX (cfs)	2-INY (cfs)	2-INZ (Total)
0.00	0.0	0.0	0.0
1.00	0.0	7.3	7.4
2.00	0.2	14.7	14.9
3.00	0.4	22.0	22.5
4.00	1.0	29.4	30.3
5.00	1.8	36.7	38.6
6.00	3.0	36.7	39.7
7.00	4.3	36.7	41.0
8.00	5.7	36.7	42.4
9.00	7.2	36.7	43.9
10.00	8.7	36.7	45.4
11.00	10.3	36.7	47.0
12.00	11.9	36.7	48.6
13.00	13.5	36.7	50.2
14.00	15.1	36.7	51.8
15.00	16.7	36.7	53.4
16.00	18.3	36.7	55.0
17.00	19.8	36.7	56.5
18.00	21.3	36.7	58.1
19.00	22.8	36.7	59.5
20.00	24.3	36.7	61.0
21.00	25.6	29.4	55.0
22.00	26.5	22.0	48.6
23.00	26.9	14.7	41.6
24.00	26.7	7.3	34.1
25.00	26.1	0.0	26.1
26.00	25.1	0.0	25.1
27.00	24.1	0.0	24.1
28.00	23.2	0.0	23.2
29.00	22.2	0.0	22.2
30.00	21.4	0.0	21.4
31.00	20.6	0.0	20.6
32.00	19.8	0.0	19.8
33.00	19.0	0.0	19.0
34.00	18.3	0.0	18.3
35.00	17.6	0.0	17.6
36.00	17.0	0.0	17.0
37.00	16.4	0.0	16.4
38.00	15.8	0.0	15.8
39.00	15.2	0.0	15.2

Executed 03-01-2000 16:42:29

Data directory: e:\pondpack\9713*.HYD

File Summary for Composite Hydrograph

Time (min)	2-OUTX (cfs)	2-INY (cfs)	2-INZ (Total)
40.00	14.7	0.0	14.7
41.00	14.2	0.0	14.2
42.00	13.7	0.0	13.7
43.00	13.2	0.0	13.2
44.00	12.8	0.0	12.8
45.00	12.3	0.0	12.3
46.00	11.9	0.0	11.9
47.00	11.5	0.0	11.5
48.00	11.2	0.0	11.2
49.00	10.8	0.0	10.8
50.00	10.4	0.0	10.4
51.00	10.1	0.0	10.1
52.00	9.8	0.0	9.8
53.00	9.5	0.0	9.5
54.00	9.2	0.0	9.2
55.00	9.0	0.0	9.0
56.00	8.7	0.0	8.7
57.00	8.4	0.0	8.4
58.00	8.2	0.0	8.2
59.00	8.0	0.0	8.0
60.00	7.7	0.0	7.7
61.00	7.5	0.0	7.5
62.00	0.0	0.0	0.0

Executed 03-01-2000 16:36:51

Data directory: e:\pondpack\9713*.HYD

File Summary for Composite Hydrograph

Time (min)	15-OUTX (cfs)	15-INY (cfs)	15-INZ (Total)
0.00	0.0	0.0	0.0
1.00	0.1	12.0	12.0
2.00	0.3	23.9	24.3
3.00	0.9	35.9	36.8
4.00	2.0	47.9	49.9
5.00	3.7	59.9	63.6
6.00	6.0	59.9	65.9
7.00	8.6	59.9	68.5
8.00	11.3	59.9	71.2
9.00	14.2	59.9	74.1
10.00	17.1	59.9	77.0
11.00	20.1	59.9	80.0
12.00	23.1	59.9	82.9
13.00	26.1	59.9	85.9
14.00	29.0	59.9	88.9
15.00	31.9	59.9	91.7
16.00	34.7	59.9	94.5
17.00	37.4	59.9	97.3
18.00	40.1	59.9	100.0
19.00	43.1	59.9	102.9
20.00	46.5	59.9	106.4
21.00	50.0	47.9	97.9
22.00	52.1	35.9	88.0
23.00	52.5	24.0	76.5
24.00	51.3	12.0	63.3
25.00	48.6	0.0	48.6
26.00	45.4	0.0	45.4
27.00	42.6	0.0	42.6
28.00	40.4	0.0	40.4
29.00	38.6	0.0	38.6
30.00	36.8	0.0	36.8
31.00	35.2	0.0	35.2
32.00	33.6	0.0	33.6
33.00	32.2	0.0	32.2
34.00	30.8	0.0	30.8
35.00	29.5	0.0	29.5
36.00	28.3	0.0	28.3
37.00	27.1	0.0	27.1
38.00	26.0	0.0	26.0
39.00	24.9	0.0	24.9

Executed 03-01-2000 16:36:51

Data directory: e:\pondpack\9713*.HYD

File Summary for Composite Hydrograph

Time (min)	15-OUTX (cfs)	15-INY (cfs)	15-INZ (Total)
40.00	23.9	0.0	23.9
41.00	22.9	0.0	22.9
42.00	22.0	0.0	22.0
43.00	21.2	0.0	21.2
44.00	20.4	0.0	20.4
45.00	19.6	0.0	19.6
46.00	18.9	0.0	18.9
47.00	18.2	0.0	18.2
48.00	17.5	0.0	17.5
49.00	16.9	0.0	16.9
50.00	16.2	0.0	16.2
51.00	15.7	0.0	15.7
52.00	15.1	0.0	15.1
53.00	14.6	0.0	14.6
54.00	14.1	0.0	14.1
55.00	13.6	0.0	13.6
56.00	13.1	0.0	13.1
57.00	12.7	0.0	12.7
58.00	12.2	0.0	12.2
59.00	11.8	0.0	11.8
60.00	11.4	0.0	11.4
61.00	11.1	0.0	11.1
62.00	0.0	0.0	0.0

Executed 03-01-2000 16:42:45

Data directory: e:\pondpack\9713*.HYD

File Summary for Composite Hydrograph

Time (min)	25-OUTX (cfs)	25-INY (cfs)	25-INZ (Total)
0.00	0.0	0.0	0.0
1.00	0.1	14.8	14.9
2.00	0.4	29.5	29.9
3.00	1.1	44.3	45.5
4.00	2.7	59.1	61.8
5.00	5.0	73.9	78.9
6.00	8.2	73.9	82.1
7.00	11.6	73.9	85.5
8.00	15.3	73.9	89.2
9.00	19.1	73.9	92.9
10.00	22.9	73.9	96.8
11.00	26.9	73.9	100.8
12.00	30.7	73.9	104.6
13.00	34.5	73.9	108.4
14.00	38.3	73.9	112.2
15.00	42.2	73.9	116.1
16.00	47.2	73.9	121.1
17.00	53.1	73.9	127.0
18.00	59.2	73.9	133.1
19.00	65.3	73.9	139.2
20.00	71.1	73.9	144.9
21.00	75.6	59.1	134.7
22.00	77.6	44.3	122.0
23.00	76.8	29.6	106.3
24.00	73.4	14.8	88.2
25.00	68.0	0.0	68.0
26.00	61.6	0.0	61.6
27.00	55.6	0.0	55.6
28.00	50.6	0.0	50.6
29.00	46.7	0.0	46.7
30.00	43.5	0.0	43.5
31.00	41.1	0.0	41.1
32.00	39.2	0.0	39.2
33.00	37.5	0.0	37.5
34.00	35.8	0.0	35.8
35.00	34.2	0.0	34.2
36.00	32.7	0.0	32.7
37.00	31.3	0.0	31.3
38.00	30.0	0.0	30.0
39.00	28.8	0.0	28.8

Executed 03-01-2000 16:42:45

Data directory: e:\pondpack\9713*.HYD

File Summary for Composite Hydrograph

Time (min)	25-OUTX (cfs)	25-INY (cfs)	25-INZ (Total)
40.00	27.5	0.0	27.5
41.00	26.4	0.0	26.4
42.00	25.3	0.0	25.3
43.00	24.2	0.0	24.2
44.00	23.3	0.0	23.3
45.00	22.4	0.0	22.4
46.00	21.5	0.0	21.5
47.00	20.7	0.0	20.7
48.00	19.9	0.0	19.9
49.00	19.1	0.0	19.1
50.00	18.4	0.0	18.4
51.00	17.7	0.0	17.7
52.00	17.1	0.0	17.1
53.00	16.5	0.0	16.5
54.00	15.9	0.0	15.9
55.00	15.3	0.0	15.3
56.00	14.8	0.0	14.8
57.00	14.3	0.0	14.3
58.00	13.8	0.0	13.8
59.00	13.3	0.0	13.3
60.00	12.8	0.0	12.8
61.00	12.4	0.0	12.4
62.00	0.0	0.0	0.0

Executed 03-01-2000 16:43:03

Data directory: e:\pondpack\9713*.HYD

File Summary for Composite Hydrograph

Time (min)	100-OUTX (cfs)	100-INY (cfs)	100-INZ (Total)
0.00	0.0	0.0	0.0
1.00	0.1	18.9	19.0
2.00	0.5	37.8	38.3
3.00	1.6	56.7	58.4
4.00	3.8	75.6	79.4
5.00	7.3	94.5	101.8
6.00	11.6	94.5	106.2
7.00	16.5	94.5	111.0
8.00	21.6	94.5	116.1
9.00	26.9	94.5	121.4
10.00	32.1	94.5	126.7
11.00	37.5	94.5	132.0
12.00	43.2	94.5	137.8
13.00	51.1	94.5	145.6
14.00	60.4	94.5	154.9
15.00	69.9	94.5	164.5
16.00	79.2	94.5	173.7
17.00	87.9	94.5	182.4
18.00	95.9	94.5	190.4
19.00	103.1	94.5	197.7
20.00	109.6	94.5	204.1
21.00	114.1	75.6	189.7
22.00	114.8	56.7	171.6
23.00	111.5	37.8	149.3
24.00	104.7	18.9	123.6
25.00	95.2	0.0	95.2
26.00	84.5	0.0	84.5
27.00	74.7	0.0	74.7
28.00	66.5	0.0	66.5
29.00	59.7	0.0	59.7
30.00	54.1	0.0	54.1
31.00	49.4	0.0	49.4
32.00	45.6	0.0	45.6
33.00	42.7	0.0	42.7
34.00	40.6	0.0	40.6
35.00	38.7	0.0	38.7
36.00	37.0	0.0	37.0
37.00	35.3	0.0	35.3
38.00	33.7	0.0	33.7
39.00	32.3	0.0	32.3

Executed 03-01-2000 16:43:03

Data directory: e:\pondpack\9713*.HYD

File Summary for Composite Hydrograph

Time (min)	100-OUTX (cfs)	100-INY (cfs)	100-INZ (Total)
40.00	30.9	0.0	30.9
41.00	29.6	0.0	29.6
42.00	28.4	0.0	28.4
43.00	27.2	0.0	27.2
44.00	26.0	0.0	26.0
45.00	24.9	0.0	24.9
46.00	23.9	0.0	23.9
47.00	23.0	0.0	23.0
48.00	22.1	0.0	22.1
49.00	21.2	0.0	21.2
50.00	20.4	0.0	20.4
51.00	19.6	0.0	19.6
52.00	18.9	0.0	18.9
53.00	18.2	0.0	18.2
54.00	17.5	0.0	17.5
55.00	16.9	0.0	16.9
56.00	16.3	0.0	16.3
57.00	15.7	0.0	15.7
58.00	15.1	0.0	15.1
59.00	14.6	0.0	14.6
60.00	14.1	0.0	14.1
61.00	13.6	0.0	13.6
62.00	0.0	0.0	0.0

POND-2 Version: 5.20
S/N:

WATERBURY
DETENTION ANALYSIS
LAKE C
FEBRUARY 2000

CALCULATED 02-23-2000 07:18:12
DISK FILE: E:\PONDPACK\9713\LAKE-C .VOL

Planimeter scale: 1 inch = 1 ft.

Elevation (ft)	Planimeter (sq.in.)	Area (sq.ft)	$A1+A2+\text{sqr}(A1*A2)$ (sq.ft)	* Volume (cubic-ft)	Volume Sum (cubic-ft)
509.00	18,930.00	18,930	0	0	0
510.00	21,030.00	21,030	59,912	19,971	19,971
512.00	25,465.00	25,465	69,637	46,424	66,395
514.00	30,209.00	30,209	83,410	55,607	122,002
515.00	32,682.00	32,682	94,312	31,437	153,439
515.75	34,581.00	34,581	100,881	25,220	178,659

* Incremental volume computed by the Conic Method for Reservoir Volumes.

Outlet Structure File: LAKE-C .STR

POND-2 Version: 5.20

S/N:

Date Executed:

Time Executed:

WATERBURY
DETENTION ANALYSIS
LAKE C
FEBRUARY 2000

***** COMPOSITE OUTFLOW SUMMARY *****

Elevation (ft)	Q (cfs)	Contributing Structures
509.00	0.0	1
509.20	0.7	1
509.40	2.0	1
509.60	3.7	1
509.80	5.7	1
510.00	8.0	1
510.20	10.5	1
510.40	13.3	1
510.60	16.2	1
510.80	19.3	1
511.00	22.6	1
511.20	26.1	1
511.40	29.7	1
511.60	33.8	1 +2
511.80	38.8	1 +2
512.00	44.4	1 +2
512.20	50.5	1 +2
512.40	57.0	1 +2
512.60	63.9	1 +2
512.80	71.1	1 +2
513.00	78.7	1 +2
513.20	86.6	1 +2
513.40	94.8	1 +2
513.60	104.6	1 +2 +3
513.80	118.9	1 +2 +3
514.00	135.9	1 +2 +3
514.20	155.0	1 +2 +3
514.40	175.8	1 +2 +3
514.60	198.1	1 +2 +3
514.80	222.0	1 +2 +3
515.00	247.1	1 +2 +3
515.20	273.6	1 +2 +3
515.40	301.2	1 +2 +3
515.60	329.9	1 +2 +3
515.75	352.2	1 +2 +3

Outlet Structure File: LAKE-C .STR

POND-2 Version: 5.20

S/N:

Date Executed:

Time Executed:

WATERBURY
DETENTION ANALYSIS
LAKE C
FEBRUARY 2000

Outlet Structure File: E:\PONDPACK\9713\LAKE-C .STR
Planimeter Input File: E:\PONDPACK\9713\LAKE-C .VOL
Rating Table Output File: E:\PONDPACK\9713\LAKE-C .PND

Min. Elev.(ft) = 509 Max. Elev.(ft) = 515.75 Incr.(ft) = .2

Additional elevations (ft) to be included in table:

* * * * *

SYSTEM CONNECTIVITY

Structure	No.	Q Table	Q Table
-----	---	-----	-----
WEIR-VR	1	->	1
WEIR-VR	2	->	2
WEIR-VR	3	->	3

Outflow rating table summary was stored in file:
E:\PONDPACK\9713\LAKE-C .PND

Outlet Structure File: LAKE-C .STR

POND-2 Version: 5.20
Date Executed:

S/N:
Time Executed:

WATERBURY
DETENTION ANALYSIS
LAKE C
FEBRUARY 2000

>>>>> Structure No. 1 <<<<<<
(Input Data)

WEIR-VR
Weir - Vertical Rectangular

E1 elev. (ft)?	509
E2 elev. (ft)?	515.751
Weir coefficient?	3
Weir elev. (ft)?	509
Length (ft)?	2.667
Contracted/Suppressed (C/S)?	S

Outlet Structure File: LAKE-C .STR

POND-2 Version: 5.20
Date Executed:

S/N:
Time Executed:

WATERBURY
DETENTION ANALYSIS
LAKE C
FEBRUARY 2000

>>>>> Structure No. 2 <<<<<<
(Input Data)

WEIR-VR
Weir - Vertical Rectangular

E1 elev.(ft)?	511.5
E2 elev.(ft)?	515.751
Weir coefficient?	3
Weir elev.(ft)?	511.5
Length (ft)?	2.6667
Contracted/Suppressed (C/S)?	S

Outlet Structure File: LAKE-C .STR

POND-2 Version: 5.20
Date Executed:

S/N:
Time Executed:

WATERBURY
DETENTION ANALYSIS
LAKE C
FEBRUARY 2000

>>>>> Structure No. 3 <<<<<<
(Input Data)

WEIR-VR
Weir - Vertical Rectangular

E1 elev.(ft)?	513.5
E2 elev.(ft)?	515.751
Weir coefficient?	3
Weir elev.(ft)?	513.5
Length (ft)?	14
Contracted/Suppressed (C/S)?	S

Outlet Structure File: LAKE-C .STR

POND-2 Version: 5.20
Date Executed:

S/N:
Time Executed:

WATERBURY
DETENTION ANALYSIS
LAKE C
FEBRUARY 2000

Outflow Rating Table for Structure #1
WEIR-VR Weir - Vertical Rectangular

***** INLET CONTROL ASSUMED *****

Elevation (ft)	Q (cfs)	Computation Messages
509.00	0.0	H =0.0
509.20	0.7	H =.2
509.40	2.0	H =.4
509.60	3.7	H =.6
509.80	5.7	H =.8
510.00	8.0	H =1.0
510.20	10.5	H =1.2
510.40	13.3	H =1.4
510.60	16.2	H =1.6
510.80	19.3	H =1.8
511.00	22.6	H =2.0
511.20	26.1	H =2.2
511.40	29.7	H =2.4
511.60	33.5	H =2.6
511.80	37.5	H =2.8
512.00	41.6	H =3.0
512.20	45.8	H =3.2
512.40	50.2	H =3.4
512.60	54.7	H =3.6
512.80	59.3	H =3.8
513.00	64.0	H =4.0
513.20	68.9	H =4.2
513.40	73.8	H =4.4
513.60	78.9	H =4.6
513.80	84.1	H =4.8
514.00	89.5	H =5.0
514.20	94.9	H =5.2
514.40	100.4	H =5.4
514.60	106.0	H =5.6
514.80	111.8	H =5.8
515.00	117.6	H =6.0
515.20	123.5	H =6.2
515.40	129.5	H =6.4
515.60	135.7	H =6.6
515.75	140.3	H =6.75

C = 3 L (ft) = 2.667

H (ft) = Table elev. - Invert elev. (509 ft)

Q (cfs) = C * L * (H**1.5) -- Suppressed Weir

Outlet Structure File: LAKE-C .STR

POND-2 Version: 5.20
Date Executed:

S/N:
Time Executed:

WATERBURY
DETENTION ANALYSIS
LAKE C
FEBRUARY 2000

Outflow Rating Table for Structure #2
WEIR-VR Weir - Vertical Rectangular

***** INLET CONTROL ASSUMED *****

Elevation (ft)	Q (cfs)	Computation	Messages
509.00	0.0	E < Inv.El. = 511.5	
509.20	0.0	E < Inv.El. = 511.5	
509.40	0.0	E < Inv.El. = 511.5	
509.60	0.0	E < Inv.El. = 511.5	
509.80	0.0	E < Inv.El. = 511.5	
510.00	0.0	E < Inv.El. = 511.5	
510.20	0.0	E < Inv.El. = 511.5	
510.40	0.0	E < Inv.El. = 511.5	
510.60	0.0	E < Inv.El. = 511.5	
510.80	0.0	E < Inv.El. = 511.5	
511.00	0.0	E < Inv.El. = 511.5	
511.20	0.0	E < Inv.El. = 511.5	
511.40	0.0	E < Inv.El. = 511.5	
511.60	0.3	H =.1	
511.80	1.3	H =.3	
512.00	2.8	H =.5	
512.20	4.7	H =.7	
512.40	6.8	H =.9	
512.60	9.2	H =1.1	
512.80	11.9	H =1.3	
513.00	14.7	H =1.5	
513.20	17.7	H =1.7	
513.40	21.0	H =1.9	
513.60	24.3	H =2.1	
513.80	27.9	H =2.3	
514.00	31.6	H =2.5	
514.20	35.5	H =2.7	
514.40	39.5	H =2.9	
514.60	43.7	H =3.1	
514.80	48.0	H =3.3	
515.00	52.4	H =3.5	
515.20	56.9	H =3.7	
515.40	61.6	H =3.9	
515.60	66.4	H =4.1	
515.75	70.1	H =4.25	

C = 3 L (ft) = 2.6667

H (ft) = Table elev. - Invert elev. (511.5 ft)

Q (cfs) = C * L * (H**1.5) -- Suppressed Weir

Outlet Structure File: LAKE-C .STR

POND-2 Version: 5.20
Date Executed:

S/N:
Time Executed:

WATERBURY
DETENTION ANALYSIS
LAKE C
FEBRUARY 2000

Outflow Rating Table for Structure #3
WEIR-VR Weir - Vertical Rectangular

***** INLET CONTROL ASSUMED *****

Elevation (ft)	Q (cfs)	Computation Messages
509.00	0.0	E < Inv.El. = 513.5
509.20	0.0	E < Inv.El. = 513.5
509.40	0.0	E < Inv.El. = 513.5
509.60	0.0	E < Inv.El. = 513.5
509.80	0.0	E < Inv.El. = 513.5
510.00	0.0	E < Inv.El. = 513.5
510.20	0.0	E < Inv.El. = 513.5
510.40	0.0	E < Inv.El. = 513.5
510.60	0.0	E < Inv.El. = 513.5
510.80	0.0	E < Inv.El. = 513.5
511.00	0.0	E < Inv.El. = 513.5
511.20	0.0	E < Inv.El. = 513.5
511.40	0.0	E < Inv.El. = 513.5
511.60	0.0	E < Inv.El. = 513.5
511.80	0.0	E < Inv.El. = 513.5
512.00	0.0	E < Inv.El. = 513.5
512.20	0.0	E < Inv.El. = 513.5
512.40	0.0	E < Inv.El. = 513.5
512.60	0.0	E < Inv.El. = 513.5
512.80	0.0	E < Inv.El. = 513.5
513.00	0.0	E < Inv.El. = 513.5
513.20	0.0	E < Inv.El. = 513.5
513.40	0.0	E < Inv.El. = 513.5
513.60	1.3	H =.1
513.80	6.9	H =.3
514.00	14.8	H =.5
514.20	24.6	H =.7
514.40	35.9	H =.9
514.60	48.5	H =1.1
514.80	62.3	H =1.3
515.00	77.2	H =1.5
515.20	93.1	H =1.7
515.40	110.0	H =1.9
515.60	127.8	H =2.1
515.75	141.8	H =2.25

C = 3 L (ft) = 14
H (ft) = Table elev. - Invert elev. (513.5 ft)

Q (cfs) = C * L * (H**1.5) -- Suppressed Weir

```

*****
*                                     *
*           WATERBURY                 *
*   DETENTION ANALYSIS               *
*           LAKE C                     *
*           FEBRUARY 2000             *
*                                     *
*****
  
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Inflow Hydrograph: E:\PONDPACK\9713\2-INZ .HYD
 Rating Table file: E:\PONDPACK\9713\LAKE-C .PND

----INITIAL CONDITIONS----
 Elevation = 509.00 ft
 Outflow = 0.00 cfs
 Storage = 0 cu-ft

GIVEN POND DATA

INTERMEDIATE ROUTING
 COMPUTATIONS

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)	2S/t (cfs)	2S/t + 0 (cfs)
509.00	0.0	0	0.0	0.0
509.20	0.7	3,827	127.6	128.3
509.40	2.0	7,737	257.9	259.9
509.60	3.7	11,730	391.0	394.7
509.80	5.7	15,807	526.9	532.6
510.00	8.0	19,971	665.7	673.7
510.20	10.5	24,219	807.3	817.8
510.40	13.3	28,553	951.8	965.1
510.60	16.2	32,973	1099.1	1115.3
510.80	19.3	37,479	1249.3	1268.6
511.00	22.6	42,074	1402.5	1425.1
511.20	26.1	46,758	1558.6	1584.7
511.40	29.7	51,531	1717.7	1747.4
511.60	33.8	56,394	1879.8	1913.6
511.80	38.8	61,348	2044.9	2083.7
512.00	44.4	66,395	2213.2	2257.6
512.20	50.5	71,534	2384.5	2435.0
512.40	57.0	76,764	2558.8	2615.8
512.60	63.9	82,086	2736.2	2800.1
512.80	71.1	87,502	2916.7	2987.8
513.00	78.7	93,012	3100.4	3179.1
513.20	86.6	98,618	3287.2	3373.8
513.40	94.8	104,318	3477.3	3572.1
513.60	104.6	110,114	3670.5	3775.1
513.80	118.9	116,009	3867.0	3985.9
514.00	135.9	122,002	4066.7	4202.6
514.20	155.0	128,093	4269.7	4424.7
514.40	175.8	134,281	4476.0	4651.8
514.60	198.1	140,566	4685.5	4883.6
514.80	222.0	146,953	4898.4	5120.4
515.00	247.1	153,439	5114.6	5361.7

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)
515.20	273.6	160,026
515.40	301.2	166,713
515.60	329.9	173,500
515.75	352.2	178,659

INTERMEDIATE ROUTING
COMPUTATIONS

2S/t (cfs)	2S/t + 0 (cfs)
5334.2	5607.8
5557.1	5858.3
5783.3	6113.2
5955.3	6307.5

Time increment (t) = 1.0 min.

Pond File: E:\PONDPACK\9713\LAKE-C .PND
 Inflow Hydrograph: E:\PONDPACK\9713\2-INZ .HYD
 Outflow Hydrograph: E:\PONDPACK\9713\2-OUTZ .HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	0.00	---	0.0	0.0	0.00	509.00
1.0	7.39	7.4	7.3	7.4	0.04	509.01
2.0	14.88	22.3	29.3	29.6	0.16	509.05
3.0	22.48	37.4	65.9	66.6	0.36	509.10
4.0	30.34	52.8	117.4	118.7	0.65	509.19
5.0	38.56	68.9	183.8	186.3	1.27	509.29
6.0	39.74	78.3	258.0	262.1	2.03	509.40
7.0	41.02	80.8	332.8	338.8	2.99	509.52
8.0	42.43	83.5	408.2	416.2	4.01	509.63
9.0	43.93	86.4	484.3	494.6	5.15	509.74
10.0	45.45	89.4	560.9	573.7	6.37	509.86
11.0	46.98	92.4	638.0	653.3	7.67	509.97
12.0	48.59	95.6	715.5	733.6	9.04	510.08
13.0	50.21	98.8	793.4	814.3	10.44	510.20
14.0	51.82	102.0	871.5	895.5	11.98	510.31
15.0	53.41	105.2	949.7	976.7	13.53	510.42
16.0	54.98	108.4	1027.9	1058.1	15.10	510.52
17.0	56.54	111.5	1106.0	1139.4	16.69	510.63
18.0	58.06	114.6	1184.0	1220.6	18.33	510.74
19.0	59.55	117.6	1261.6	1301.6	20.00	510.84
20.0	61.02	120.6	1338.8	1382.2	21.69	510.95
21.0	64.99	126.0	1408.3	1454.8	23.25	511.04
22.0	68.55	133.5	1462.8	1511.8	24.50	511.11
23.0	71.56	140.1	1502.1	1552.9	25.40	511.16
24.0	74.07	147.6	1525.8	1577.7	25.95	511.19
25.0	76.10	155.2	1533.8	1586.0	26.13	511.20
26.0	77.13	160.2	1532.8	1585.0	26.11	511.20
27.0	78.15	169.2	1529.9	1582.0	26.04	511.20
28.0	79.15	177.3	1525.3	1577.2	25.94	511.19
29.0	80.15	185.4	1519.1	1570.7	25.79	511.18
30.0	81.15	193.6	1511.5	1562.7	25.62	511.17
31.0	82.15	201.9	1502.5	1553.4	25.41	511.16
32.0	83.15	210.3	1492.6	1542.9	25.18	511.15
33.0	84.15	218.8	1481.5	1531.4	24.93	511.13
34.0	85.15	227.4	1469.5	1518.8	24.66	511.12
35.0	86.15	236.0	1456.8	1505.5	24.36	511.10
36.0	87.15	244.6	1443.3	1491.4	24.05	511.08
37.0	88.15	253.2	1429.2	1476.7	23.73	511.06
38.0	89.15	261.8	1414.6	1461.4	23.40	511.05
39.0	90.15	270.4	1399.5	1445.6	23.05	511.03
40.0	91.15	279.0	1384.1	1429.5	22.70	511.01
41.0	92.15	287.6	1368.3	1413.0	22.34	510.98
42.0	93.15	296.2	1352.2	1396.2	21.99	510.96
43.0	94.15	304.8	1335.8	1379.1	21.63	510.94
44.0	95.15	313.4	1319.3	1361.8	21.27	510.92

POND-2 Version: 5.20 S/N:
 EXECUTED: 02-23-2000 07:23:48

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 Return Freq: 2 years

Pond File: E:\PONDPACK\9713\LAKE-C .PND
 Inflow Hydrograph: E:\PONDPACK\9713\2-INZ .HYD
 Outflow Hydrograph: E:\PONDPACK\9713\2-OUTZ .HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/T - O (cfs)	2S/T + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
45.0	12.34	25.1	1302.6	1344.4	20.90	510.90
46.0	11.93	24.3	1285.8	1326.9	20.53	510.87
47.0	11.53	23.5	1269.0	1309.3	20.16	510.85
48.0	11.15	22.7	1252.1	1291.7	19.79	510.83
49.0	10.78	21.9	1235.2	1274.0	19.41	510.81
50.0	10.44	21.2	1218.3	1256.4	19.05	510.78
51.0	10.13	20.6	1201.5	1238.9	18.70	510.76
52.0	9.82	20.0	1184.7	1221.4	18.35	510.74
53.0	9.52	19.3	1168.1	1204.1	18.00	510.72
54.0	9.24	18.8	1151.6	1186.8	17.65	510.69
55.0	8.95	18.2	1135.1	1169.7	17.30	510.67
56.0	8.69	17.6	1118.9	1152.8	16.96	510.65
57.0	8.43	17.1	1102.7	1136.0	16.62	510.63
58.0	8.19	16.6	1086.8	1119.4	16.28	510.61
59.0	7.96	16.2	1071.0	1103.0	15.96	510.58
60.0	7.72	15.7	1055.4	1086.7	15.65	510.56
61.0	7.50	15.2	1040.0	1070.5	15.34	510.54
62.0	0.00	7.5	1017.7	1047.5	14.89	510.51

***** SUMMARY OF ROUTING COMPUTATIONS *****

Pond File: E:\PONDPACK\9713\LAKE-C .PND
Inflow Hydrograph: E:\PONDPACK\9713\2-INZ .HYD
Outflow Hydrograph: E:\PONDPACK\9713\2-OUTZ .HYD

Starting Pond W.S. Elevation = 509.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow = 61.02 cfs
Peak Outflow = 26.13 cfs
Peak Elevation = 511.20 ft

***** Summary of Approximate Peak Storage *****

Initial Storage = 0 cu-ft
Peak Storage From Storm = 46,797 cu-ft

Total Storage in Pond = 46,797 cu-ft

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*****
*
*           WATERBURY
*   DETENTION ANALYSIS
*           LAKE C
*   FEBRUARY 2000
*
*****
  
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Inflow Hydrograph: E:\PONDPACK\9713\15-INZ .HYD
 Rating Table file: E:\PONDPACK\9713\LAKE-C .PND

----INITIAL CONDITIONS----
 Elevation = 509.00 ft
 Outflow = 0.00 cfs
 Storage = 0 cu-ft

GIVEN POND DATA

INTERMEDIATE ROUTING
 COMPUTATIONS

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)	2S/t (cfs)	2S/t + 0 (cfs)
509.00	0.0	0	0.0	0.0
509.20	0.7	3,827	127.6	128.3
509.40	2.0	7,737	257.9	259.9
509.60	3.7	11,730	391.0	394.7
509.80	5.7	15,807	526.9	532.6
510.00	8.0	19,971	665.7	673.7
510.20	10.5	24,219	807.3	817.8
510.40	13.3	28,553	951.8	965.1
510.60	16.2	32,973	1099.1	1115.3
510.80	19.3	37,479	1249.3	1268.6
511.00	22.6	42,074	1402.5	1425.1
511.20	26.1	46,758	1558.6	1584.7
511.40	29.7	51,531	1717.7	1747.4
511.60	33.8	56,394	1879.8	1913.6
511.80	38.8	61,348	2044.9	2083.7
512.00	44.4	66,395	2213.2	2257.6
512.20	50.5	71,534	2384.5	2435.0
512.40	57.0	76,764	2558.8	2615.8
512.60	63.9	82,086	2736.2	2800.1
512.80	71.1	87,502	2916.7	2987.8
513.00	78.7	93,012	3100.4	3179.1
513.20	86.6	98,618	3287.2	3373.8
513.40	94.8	104,318	3477.3	3572.1
513.60	104.6	110,114	3670.5	3775.1
513.80	118.9	116,009	3867.0	3985.9
514.00	135.9	122,002	4066.7	4202.6
514.20	155.0	128,093	4269.7	4424.7
514.40	175.8	134,281	4476.0	4651.8
514.60	198.1	140,566	4685.5	4883.6
514.80	222.0	146,953	4898.4	5120.4
515.00	247.1	153,439	5114.6	5361.7

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)
515.20	273.6	160,026
515.40	301.2	166,713
515.60	329.9	173,500
515.75	352.2	178,659

INTERMEDIATE ROUTING
COMPUTATIONS

2S/t (cfs)	2S/t + 0 (cfs)
5334.2	5607.8
5557.1	5858.3
5783.3	6113.2
5955.3	6307.5

Time increment (t) = 1.0 min.

Pond File: E:\PONDPACK\9713\LAKE-C .PND
 Inflow Hydrograph: E:\PONDPACK\9713\15-INZ .HYD
 Outflow Hydrograph: E:\PONDPACK\9713\15-OUTZ .HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	0.00	---	0.0	0.0	0.00	509.00
1.0	12.05	12.1	11.9	12.1	0.07	509.02
2.0	24.27	36.3	47.7	48.2	0.26	509.08
3.0	36.79	61.1	107.6	108.8	0.59	509.17
4.0	49.87	86.7	191.5	194.2	1.35	509.30
5.0	63.59	113.5	299.9	305.0	2.57	509.47
6.0	65.92	129.5	421.0	429.4	4.20	509.65
7.0	68.49	134.4	543.2	555.4	6.07	509.83
8.0	71.22	139.7	666.6	682.9	8.16	510.01
9.0	74.09	145.3	791.1	811.9	10.40	510.19
10.0	77.02	151.1	916.5	942.2	12.87	510.37
11.0	79.98	157.0	1042.7	1073.5	15.39	510.54
12.0	82.94	162.9	1169.6	1205.6	18.03	510.72
13.0	85.94	168.9	1296.9	1338.5	20.77	510.89
14.0	88.91	174.9	1424.5	1471.8	23.62	511.06
15.0	91.74	180.7	1552.1	1605.2	26.55	511.23
16.0	94.54	186.3	1679.4	1738.4	29.50	511.39
17.0	97.32	191.9	1805.7	1871.2	32.75	511.55
18.0	100.00	197.3	1930.2	2003.0	36.43	511.71
19.0	102.95	203.0	2052.3	2133.1	40.39	511.86
20.0	106.42	209.4	2172.6	2261.7	44.54	512.00
21.0	97.88	204.3	2279.9	2376.9	48.50	512.13
22.0	88.04	185.9	2362.6	2465.8	51.61	512.23
23.0	76.47	164.5	2419.5	2527.1	53.81	512.30
24.0	63.27	139.7	2449.3	2559.2	54.97	512.34
25.0	48.62	111.9	2451.1	2561.2	55.04	512.34
26.0	45.37	94.0	2436.2	2545.1	54.46	512.32
27.0	42.57	87.9	2416.7	2524.1	53.71	512.30
28.0	40.41	83.0	2394.0	2499.7	52.83	512.27
29.0	38.57	79.0	2369.3	2473.0	51.87	512.24
30.0	36.82	75.4	2343.0	2444.7	50.85	512.21
31.0	35.16	72.0	2315.3	2415.0	49.81	512.18
32.0	33.62	68.8	2286.6	2384.1	48.75	512.14
33.0	32.18	65.8	2257.1	2352.4	47.66	512.11
34.0	30.83	63.0	2227.0	2320.4	46.55	512.07
35.0	29.54	60.4	2196.5	2287.4	45.42	512.03
36.0	28.30	57.8	2165.8	2254.4	44.30	512.00
37.0	27.10	55.4	2134.7	2221.2	43.23	511.96
38.0	25.95	53.1	2103.5	2187.8	42.15	511.92
39.0	24.87	50.8	2072.1	2154.3	41.07	511.88
40.0	23.86	48.7	2040.9	2120.9	40.00	511.84
41.0	22.92	46.8	2009.8	2087.7	38.93	511.80
42.0	22.02	44.9	1978.8	2054.7	37.95	511.77
43.0	21.17	43.2	1948.1	2022.0	36.99	511.73
44.0	20.36	41.5	1917.5	1989.6	36.03	511.69

Pond File: E:\PONDPACK\9713\LAKE-C .PND
 Inflow Hydrograph: E:\PONDPACK\9713\15-INZ .HYD
 Outflow Hydrograph: E:\PONDPACK\9713\15-OUTZ .HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - 0 (cfs)	2S/t + 0 (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
45.0	19.57	39.9	1887.3	1957.5	35.09	511.65
46.0	18.85	38.4	1857.4	1925.7	34.16	511.61
47.0	18.15	37.0	1827.7	1894.4	33.33	511.58
48.0	17.47	35.6	1798.2	1863.4	32.56	511.54
49.0	16.85	34.3	1768.9	1832.6	31.80	511.50
50.0	16.24	33.1	1739.9	1802.0	31.05	511.47
51.0	15.65	31.9	1711.2	1771.8	30.30	511.43
52.0	15.09	30.7	1682.8	1742.0	29.58	511.39
53.0	14.57	29.7	1654.6	1712.5	28.93	511.36
54.0	14.06	28.6	1626.7	1683.2	28.28	511.32
55.0	13.58	27.6	1599.0	1654.3	27.64	511.29
56.0	13.11	26.7	1571.7	1625.7	27.01	511.25
57.0	12.66	25.8	1544.7	1597.5	26.38	511.22
58.0	12.24	24.9	1518.1	1569.6	25.77	511.18
59.0	11.83	24.1	1491.8	1542.1	25.17	511.15
60.0	11.44	23.3	1465.9	1515.1	24.57	511.11
61.0	11.06	22.5	1440.5	1488.4	23.99	511.08
62.0	0.00	11.1	1405.2	1451.5	23.18	511.03

***** SUMMARY OF ROUTING COMPUTATIONS *****

Pond File: E:\PONDPACK\9713\LAKE-C .PND
Inflow Hydrograph: E:\PONDPACK\9713\15-INZ .HYD
Outflow Hydrograph: E:\PONDPACK\9713\15-OUTZ .HYD

Starting Pond W.S. Elevation = 509.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow = 106.42 cfs
Peak Outflow = 55.04 cfs
Peak Elevation = 512.34 ft

***** Summary of Approximate Peak Storage *****

Initial Storage = 0 cu-ft
Peak Storage From Storm = 75,185 cu-ft

Total Storage in Pond = 75,185 cu-ft

```

*****
*                                     *
*           WATERBURY                 *
*   DETENTION ANALYSIS               *
*           LAKE C                   *
*           FEBRUARY 2000            *
*                                     *
*****
  
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Inflow Hydrograph: E:\PONDPACK\9713\25-INZ .HYD
 Rating Table file: E:\PONDPACK\9713\LAKE-C .PND

----INITIAL CONDITIONS----

Elevation = 509.00 ft
 Outflow = 0.00 cfs
 Storage = 0 cu-ft

GIVEN POND DATA

INTERMEDIATE ROUTING
 COMPUTATIONS

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)
509.00	0.0	0
509.20	0.7	3,827
509.40	2.0	7,737
509.60	3.7	11,730
509.80	5.7	15,807
510.00	8.0	19,971
510.20	10.5	24,219
510.40	13.3	28,553
510.60	16.2	32,973
510.80	19.3	37,479
511.00	22.6	42,074
511.20	26.1	46,758
511.40	29.7	51,531
511.60	33.8	56,394
511.80	38.8	61,348
512.00	44.4	66,395
512.20	50.5	71,534
512.40	57.0	76,764
512.60	63.9	82,086
512.80	71.1	87,502
513.00	78.7	93,012
513.20	86.6	98,618
513.40	94.8	104,318
513.60	104.6	110,114
513.80	118.9	116,009
514.00	135.9	122,002
514.20	155.0	128,093
514.40	175.8	134,281
514.60	198.1	140,566
514.80	222.0	146,953
515.00	247.1	153,439

2S/t (cfs)	2S/t + 0 (cfs)
0.0	0.0
127.6	128.3
257.9	259.9
391.0	394.7
526.9	532.6
665.7	673.7
807.3	817.8
951.8	965.1
1099.1	1115.3
1249.3	1268.6
1402.5	1425.1
1558.6	1584.7
1717.7	1747.4
1879.8	1913.6
2044.9	2083.7
2213.2	2257.6
2384.5	2435.0
2558.8	2615.8
2736.2	2800.1
2916.7	2987.8
3100.4	3179.1
3287.2	3373.8
3477.3	3572.1
3670.5	3775.1
3867.0	3985.9
4066.7	4202.6
4269.7	4424.7
4476.0	4651.8
4685.5	4883.6
4898.4	5120.4
5114.6	5361.7

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)
515.20	273.6	160,026
515.40	301.2	166,713
515.60	329.9	173,500
515.75	352.2	178,659

INTERMEDIATE ROUTING
COMPUTATIONS

2S/t (cfs)	2S/t + 0 (cfs)
5334.2	5607.8
5557.1	5858.3
5783.3	6113.2
5955.3	6307.5

Time increment (t) = 1.0 min.

Pond File: E:\PONDPACK\9713\LAKE-C .PND
 Inflow Hydrograph: E:\PONDPACK\9713\25-INZ .HYD
 Outflow Hydrograph: E:\PONDPACK\9713\25-OUTZ .HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	0.00	---	0.0	0.0	0.00	509.00
1.0	14.88	14.9	14.7	14.9	0.08	509.02
2.0	29.95	44.8	58.9	59.5	0.32	509.09
3.0	45.46	75.4	132.8	134.3	0.76	509.21
4.0	61.78	107.2	236.4	240.0	1.80	509.37
5.0	78.93	140.7	370.2	377.1	3.48	509.57
6.0	82.06	161.0	519.8	531.2	5.68	509.80
7.0	85.50	167.6	670.9	687.4	8.24	510.02
8.0	89.18	174.7	823.5	845.6	11.03	510.24
9.0	92.95	182.1	977.5	1005.6	14.08	510.45
10.0	96.81	189.8	1132.7	1167.2	17.25	510.67
11.0	100.76	197.6	1289.1	1330.3	20.60	510.88
12.0	104.62	205.4	1446.2	1494.5	24.12	511.09
13.0	108.42	213.0	1603.8	1659.3	27.75	511.29
14.0	112.22	220.6	1761.2	1824.4	31.60	511.49
15.0	116.12	228.3	1917.5	1989.6	36.03	511.69
16.0	121.12	237.2	2072.6	2154.7	41.09	511.88
17.0	127.00	248.1	2227.5	2320.7	46.57	512.07
18.0	133.13	260.1	2382.9	2487.7	52.39	512.26
19.0	139.17	272.3	2538.2	2655.2	58.47	512.44
20.0	144.95	284.1	2692.8	2822.4	64.75	512.62
21.0	134.72	279.7	2831.5	2972.5	70.51	512.78
22.0	121.98	256.7	2938.0	3088.2	75.09	512.90
23.0	106.33	228.3	3009.9	3166.3	78.19	512.99
24.0	88.20	194.5	3045.0	3204.5	79.73	513.03
25.0	68.00	156.2	3042.0	3201.2	79.60	513.02
26.0	61.56	129.6	3014.8	3171.6	78.40	512.99
27.0	55.57	117.1	2978.3	3131.9	76.82	512.95
28.0	50.64	106.2	2934.6	3084.5	74.94	512.90
29.0	46.67	97.3	2886.2	3031.9	72.85	512.85
30.0	43.51	90.2	2835.1	2976.4	70.66	512.79
31.0	41.10	84.6	2782.7	2919.7	68.49	512.73
32.0	39.24	80.3	2730.4	2863.0	66.31	512.67
33.0	37.46	76.7	2678.8	2807.1	64.17	512.61
34.0	35.76	73.2	2627.8	2752.0	62.10	512.55
35.0	34.18	69.9	2577.6	2697.7	60.07	512.49
36.0	32.69	66.9	2528.3	2644.5	58.07	512.43
37.0	31.32	64.0	2480.0	2592.3	56.16	512.37
38.0	30.01	61.3	2432.7	2541.3	54.32	512.32
39.0	28.75	58.8	2386.4	2491.5	52.53	512.26
40.0	27.53	56.3	2341.1	2442.7	50.78	512.21
41.0	26.37	53.9	2296.8	2395.0	49.13	512.15
42.0	25.26	51.6	2253.4	2348.4	47.52	512.10
43.0	24.22	49.5	2210.9	2302.8	45.96	512.05
44.0	23.26	47.5	2169.5	2258.4	44.43	512.00

POND-2 Version: 5.20 S/N:
 EXECUTED: 02-23-2000 07:23:52

Return Freq: 25 years
 Page 4

Pond File: E:\PONDPACK\9713\LAKE-C .PND
 Inflow Hydrograph: E:\PONDPACK\9713\25-INZ .HYD
 Outflow Hydrograph: E:\PONDPACK\9713\25-OUTZ .HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/T - O (cfs)	2S/T + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
45.0	22.35	45.6	2129.1	2215.2	43.03	511.95
46.0	21.48	43.8	2089.6	2172.9	41.67	511.90
47.0	20.65	42.1	2051.0	2131.7	40.35	511.86
48.0	19.86	40.5	2013.4	2091.5	39.05	511.81
49.0	19.11	39.0	1976.6	2052.4	37.88	511.76
50.0	18.41	37.5	1940.6	2014.1	36.75	511.72
51.0	17.72	36.1	1905.5	1976.8	35.66	511.67
52.0	17.07	34.8	1871.1	1940.2	34.58	511.63
53.0	16.45	33.5	1837.4	1904.6	33.58	511.59
54.0	15.87	32.3	1804.3	1869.8	32.72	511.55
55.0	15.30	31.2	1771.7	1835.5	31.87	511.51
56.0	14.76	30.1	1739.7	1801.8	31.04	511.47
57.0	14.25	29.0	1708.3	1768.7	30.23	511.43
58.0	13.76	28.0	1677.4	1736.3	29.45	511.39
59.0	13.28	27.0	1646.9	1704.4	28.75	511.35
60.0	12.82	26.1	1616.9	1673.0	28.05	511.31
61.0	12.39	25.2	1587.4	1642.1	27.37	511.27
62.0	0.00	12.4	1546.9	1599.8	26.43	511.22

***** SUMMARY OF ROUTING COMPUTATIONS *****

Pond File: E:\PONDPACK\9713\LAKE-C .PND
Inflow Hydrograph: E:\PONDPACK\9713\25-INZ .HYD
Outflow Hydrograph: E:\PONDPACK\9713\25-OUTZ .HYD

Starting Pond W.S. Elevation = 509.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow = 144.95 cfs
Peak Outflow = 79.73 cfs
Peak Elevation = 513.03 ft

***** Summary of Approximate Peak Storage *****

Initial Storage = 0 cu-ft
Peak Storage From Storm = 93,743 cu-ft

Total Storage in Pond = 93,743 cu-ft

 * WATERBURY *
 * DETENTION ANALYSIS *
 * LAKE C *
 * FEBRUARY 2000 *
 * *****

Inflow Hydrograph: E:\PONDPACK\9713\100-INZ .HYD
 Rating Table file: E:\PONDPACK\9713\LAKE-C .PND

----INITIAL CONDITIONS----
 Elevation = 509.00 ft
 Outflow = 0.00 cfs
 Storage = 0 cu-ft

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)
509.00	0.0	0
509.20	0.7	3,827
509.40	2.0	7,737
509.60	3.7	11,730
509.80	5.7	15,807
510.00	8.0	19,971
510.20	10.5	24,219
510.40	13.3	28,553
510.60	16.2	32,973
510.80	19.3	37,479
511.00	22.6	42,074
511.20	26.1	46,758
511.40	29.7	51,531
511.60	33.8	56,394
511.80	38.8	61,348
512.00	44.4	66,395
512.20	50.5	71,534
512.40	57.0	76,764
512.60	63.9	82,086
512.80	71.1	87,502
513.00	78.7	93,012
513.20	86.6	98,618
513.40	94.8	104,318
513.60	104.6	110,114
513.80	118.9	116,009
514.00	135.9	122,002
514.20	155.0	128,093
514.40	175.8	134,281
514.60	198.1	140,566
514.80	222.0	146,953
515.00	247.1	153,439

INTERMEDIATE ROUTING
 COMPUTATIONS

2S/t (cfs)	2S/t + 0 (cfs)
0.0	0.0
127.6	128.3
257.9	259.9
391.0	394.7
526.9	532.6
665.7	673.7
807.3	817.8
951.8	965.1
1099.1	1115.3
1249.3	1268.6
1402.5	1425.1
1558.6	1584.7
1717.7	1747.4
1879.8	1913.6
2044.9	2083.7
2213.2	2257.6
2384.5	2435.0
2558.8	2615.8
2736.2	2800.1
2916.7	2987.8
3100.4	3179.1
3287.2	3373.8
3477.3	3572.1
3670.5	3775.1
3867.0	3985.9
4066.7	4202.6
4269.7	4424.7
4476.0	4651.8
4685.5	4883.6
4898.4	5120.4
5114.6	5361.7

GIVEN POND DATA

ELEVATION (ft)	OUTFLOW (cfs)	STORAGE (cu-ft)
515.20	273.6	160,026
515.40	301.2	166,713
515.60	329.9	173,500
515.75	352.2	178,659

INTERMEDIATE ROUTING
COMPUTATIONS

2S/t (cfs)	2S/t + 0 (cfs)
5334.2	5607.8
5557.1	5858.3
5783.3	6113.2
5955.3	6307.5

Time increment (t) = 1.0 min.

Pond File: E:\PONDPACK\9713\LAKE-C .PND
 Inflow Hydrograph: E:\PONDPACK\9713\100-INZ .HYD
 Outflow Hydrograph: E:\PONDPACK\9713\100-OUTZ.HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/t - O (cfs)	2S/t + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
0.0	0.00	-----	0.0	0.0	0.00	509.00
1.0	19.04	19.0	18.8	19.0	0.10	509.03
2.0	38.34	57.4	75.4	76.2	0.42	509.12
3.0	58.37	96.7	169.8	172.1	1.13	509.27
4.0	79.44	137.8	302.4	307.6	2.60	509.47
5.0	101.80	181.2	473.7	483.7	4.99	509.73
6.0	106.17	208.0	665.4	681.7	8.14	510.01
7.0	111.03	217.2	859.1	882.6	11.73	510.29
8.0	116.12	227.2	1055.0	1086.3	15.64	510.56
9.0	121.43	237.6	1252.9	1292.5	19.80	510.83
10.0	126.68	248.1	1452.5	1501.0	24.27	511.10
11.0	132.01	258.7	1653.4	1711.2	28.90	511.36
12.0	137.79	269.8	1855.0	1923.2	34.08	511.61
13.0	145.62	283.4	2057.3	2138.4	40.56	511.86
14.0	154.92	300.5	2262.2	2357.9	47.85	512.11
15.0	164.48	319.4	2470.0	2581.6	55.77	512.36
16.0	173.72	338.2	2679.8	2808.2	64.21	512.61
17.0	182.42	356.1	2889.9	3035.9	73.01	512.85
18.0	190.43	372.9	3098.6	3262.8	82.09	513.09
19.0	197.68	388.1	3304.2	3486.7	91.27	513.31
20.0	204.14	401.8	3503.4	3706.0	101.26	513.53
21.0	189.73	393.9	3671.5	3897.3	112.89	513.72
22.0	171.57	361.3	3787.7	4032.8	122.58	513.84
23.0	149.33	320.9	3851.5	4108.6	128.52	513.91
24.0	123.63	273.0	3864.9	4124.5	129.77	513.93
25.0	95.17	218.8	3830.6	4083.7	126.58	513.89
26.0	84.45	179.6	3768.6	4010.2	120.81	513.82
27.0	74.65	159.1	3697.8	3927.7	114.95	513.74
28.0	66.50	141.2	3621.1	3838.9	108.93	513.66
29.0	59.71	126.2	3540.8	3747.3	103.26	513.57
30.0	54.07	113.8	3457.0	3654.5	98.78	513.48
31.0	49.39	103.5	3371.8	3560.4	94.32	513.39
32.0	45.60	95.0	3285.9	3466.8	90.44	513.29
33.0	42.73	88.3	3201.0	3374.2	86.62	513.20
34.0	40.55	83.3	3118.3	3284.3	82.97	513.11
35.0	38.71	79.3	3038.7	3197.6	79.45	513.02
36.0	36.95	75.7	2962.1	3114.4	76.13	512.93
37.0	35.29	72.2	2888.4	3034.3	72.95	512.85
38.0	33.73	69.0	2817.6	2957.5	69.94	512.77
39.0	32.28	66.0	2749.4	2883.6	67.10	512.69
40.0	30.93	63.2	2683.9	2812.6	64.38	512.61
41.0	29.63	60.6	2620.8	2744.4	61.82	512.54
42.0	28.38	58.0	2560.1	2678.8	59.36	512.47
43.0	27.18	55.6	2501.6	2615.6	56.99	512.40
44.0	26.03	53.2	2445.2	2554.9	54.81	512.33

Pond File: E:\PONDPACK\9713\LAKE-C .PND
 Inflow Hydrograph: E:\PONDPACK\9713\100-INZ .HYD
 Outflow Hydrograph: E:\PONDPACK\9713\100-OUTZ .HYD

INFLOW HYDROGRAPH

ROUTING COMPUTATIONS

TIME (min)	INFLOW (cfs)	I1+I2 (cfs)	2S/T - O (cfs)	2S/T + O (cfs)	OUTFLOW (cfs)	ELEVATION (ft)
45.0	24.94	51.0	2390.8	2496.2	52.70	512.27
46.0	23.93	48.9	2338.3	2439.7	50.67	512.21
47.0	22.99	46.9	2287.7	2385.3	48.79	512.14
48.0	22.08	45.1	2238.8	2332.7	46.99	512.08
49.0	21.23	43.3	2191.6	2282.1	45.24	512.03
50.0	20.41	41.6	2146.0	2233.2	43.62	511.97
51.0	19.63	40.0	2101.9	2186.0	42.10	511.92
52.0	18.90	38.5	2059.1	2140.4	40.62	511.87
53.0	18.20	37.1	2017.8	2096.2	39.20	511.81
54.0	17.52	35.7	1977.7	2053.5	37.91	511.76
55.0	16.89	34.4	1938.7	2012.1	36.70	511.72
56.0	16.28	33.2	1900.9	1971.9	35.51	511.67
57.0	15.70	32.0	1864.1	1932.9	34.37	511.62
58.0	15.14	30.8	1828.3	1895.0	33.34	511.58
59.0	14.60	29.7	1793.2	1858.0	32.43	511.53
60.0	14.10	28.7	1758.8	1821.9	31.54	511.49
61.0	13.62	27.7	1725.2	1786.5	30.67	511.45
62.0	0.00	13.6	1679.8	1738.8	29.51	511.39

***** SUMMARY OF ROUTING COMPUTATIONS *****

Pond File: E:\PONDPACK\9713\LAKE-C .PND
Inflow Hydrograph: E:\PONDPACK\9713\100-INZ .HYD
Outflow Hydrograph: E:\PONDPACK\9713\100-OUTZ.HYD

Starting Pond W.S. Elevation = 509.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

Peak Inflow = 204.14 cfs
Peak Outflow = 129.77 cfs
Peak Elevation = 513.93 ft

***** Summary of Approximate Peak Storage *****

Initial Storage = 0 cu-ft
Peak Storage From Storm = 119,842 cu-ft

Total Storage in Pond = 119,842 cu-ft



January 11, 2005

mailed
1/12/05
100 NORTH MAIN STREET
O'FALLON, MISSOURI 63366
636.240.2000
FACSIMILE 636.978.4144

Mr. Chris Cliffe
Site Manager
Taylor Morley Land Development
17107 Chesterfield Airport Road
Chesterfield, MO 63005-1411

Re: Waterbury

Dear Mr. Cliffe:

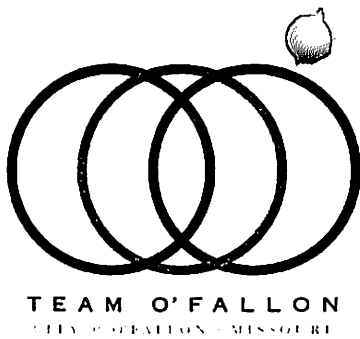
Please be advised that the lakes in this development have accumulated silt. This silt will need to be removed prior to the final inspection of the subdivision. At that time it will also be necessary to provide the City with As-Built plans to verify that the silt was removed and that the lakes are at the proper depth in accordance to the approved plan.

The contractors will need to notify the City 24 hours prior to beginning any work. This may be done by contacting me at 636-379-5561.

Sincerely,

Karl Ebert
Sr. Construction Inspector

Cc: Charles Mobley P.E., Director of Public Works
File



TRUST - TEAMWORK

RESPECT - SERVICE

Memorandum

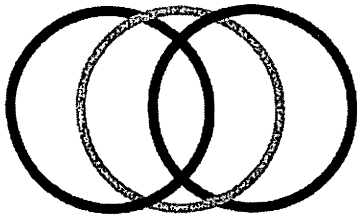
To: Todd Galbierz – City Administrator
Thru: Todd Criswell, PE – Managing Director of Community Development *TAC*
From: Charles Mobley, PE – Public Works Director *CEM*
CC: David Woods, AICP – Director of Planning and Development
Date: 1/12/2005
Re: Explanation for Waterbury concerns

The City has received numerous complaints from the residents of Waterbury Subdivision about the operation of the detention ponds and this memo explains some of those concerns.

One concern is the amount of water going into the detention ponds and how it appears that the ponds are full with only the residential subdivision being built when the construction plans call for both the residential and commercial areas to go to the detention ponds. City staff has reviewed the detention calculations and have determined that the water within the creek was not taken into account when the calculations were completed. Staff has contacted the Engineering Design firm and informed them of our findings and they are doing their own analysis and will need to come up with a solution, if required. The proposed office buildings and any future commercial may be required to provide storm water detention, if a solution is required.

The second concern was that the detention pond was filling with silt. Staff has contacted the developer and informed them that the detention basin will need to be cleaned to comply with the grades on the construction plan to get escrow release or if the detention starts to not function correctly hydraulically. Silt below the normal pool elevation does not prevent the basin from functioning correctly.

The third concern is that the residents are claiming that they were never informed that the commercial portion of the development would be draining to the detention basins. I would need to refer to Mark Piontek for review and interpretations of the Covenants, Codes and Restrictions.



TEAM O'FALLON
CITY OF FALLON, MISSOURI

**TRUST - TEAMWORK
RESPECT - SERVICE**

Memorandum

To: Vicki Boschert, Finance Director

Thru: Steve Bender, P.E., City Engineer *MB*

From: Wade Montgomery, P.E. Senior Project Manager *WJM*

Date: 07-02-08

RE: Mid Year Adjustment - Waterbury

The developer for the Waterbury Subdivision did not have the resources to complete the outstanding escrowed items and forfeited the remaining funds in the escrow account to the City. The City received the whole escrow amount of \$40,585.27 on October 2, 2007. Council authorized staff to proceed with correcting the outstanding items on the deficiency list at the August 9, 2007 Council Meeting.

The estimate prepared in September 2007 anticipated the cost to correct the items listed on the deficiency list to be approximately \$75,000 based on available information at that time.

Alliance Water Resources has completed repairs to the storm sewer and sanitary sewer system. Based on time and material records, the cost to repair these systems was \$18,984.68.

The anticipated cost to remove the silt from detention basin A and B is \$66,000. It was originally thought that only detention basin B would need remediation but upon further investigation and survey work performed by staff, it was decided that some remediation should occur in basin A also. The remediation work to the detention basins has been advertised and work should begin in August.

Community Development requests that a mid year budget adjustment in the amount of \$85,000.00 be made and placed into the expense account 320-073.6620. \$24,346.08 of the \$85,000 should be transferred to this account from the escrow funds.

The street department has completed repairs to the street system. The based on time and material records the cost to repair these systems was \$16,239.19. Community Development requests that a mid year budget adjustment in the amount of \$16,239.19 be made and placed into the expense account 210-073.6620. These funds would come from the remaining escrow funds.

CITY OF O'FALLON MISSOURI

100 North Main Street
 O'Fallon, MO 63366
 636-240-2000

Date **7/1/2008**
 Project **Waterbury**
 Project No.

Waterbury Lake Dredging

Waterbury Subdivision

	Quantity	Unit	Unit Cost	Current Total
GENERAL				
Mobilization	1	LS	\$6,500.00	\$6,500.00
Construction Surveying	1	LS	\$5,000.00	\$5,000.00
				\$11,500.00

LAKE A

DREDGING (REMOVAL OF SILT)
 BANK RESTORATION (GRADING AND SEEDING) ~~XXXXXXXXXX~~
 SILT FENCE
 RIP RAP RESTORATION

	290	CY	\$12.00	\$3,480.00
	670	SY	\$0.75	\$502.50
	565	LF	\$2.50	\$1,412.50
	11	SY	\$50.00	\$550.00
Sub-total				\$5,945.00

LAKE A

DREDGING (REMOVAL OF SILT)
 BANK RESTORATION (GRADING AND SEEDING)
 SILT FENCE
 HAUL PATH RESTORATION (GRADING AND SOD)
 ASPHALT PATH RESTORATION
 RIP RAP RESTORATION

	2065	CY	\$12.00	\$24,780.00
	1670	SY	\$0.75	\$1,252.50
	850	LF	\$2.50	\$2,125.00
	271	SY	\$4.00	\$1,084.00
	110	SY	\$60.00	\$6,600.00
	56	SY	\$50.00	\$2,800.00
Sub-total				\$38,641.50

TOTAL
 CONTIGENCY (15%)
 GRAND TOTAL

\$56,086.50
 \$8,412.98
\$64,499.48

Katherine Lubiewski

From: Dan Scherer [dscherer@alliancewater.com]
Sent: Wednesday, July 02, 2008 9:58 AM
To: Katherine Lubiewski
Cc: garyjohnson@alliancewater.com; Steve Bender
Subject: Waterbury

Katie,

Our total for the Waterbury project is \$18,981.68, this included labor, equipment and materials. Let me know if you need anything else. I will be forwarding the tracking sheets via inter-office mail.

Dan Scherer
Utility Manager
Alliance Water Resources
410 East Elm
O'Fallon, Mo. 63366
Phone: 636-281-2858
Fax: 636-281-2823

Total Cost \$ 16,239.19

Expense report

PROJECT: Waterbury

PERIOD From 3/1/2008 To 3/31/2008

Date	Description	Regular Hours	Hourly Rate	Overtime Hours	Overtime Rate	Total Daily Wages	Assigned Equipment Used	Equipment Hours	Equipment Rate	Total Daily Equipment	Misc.	Total
INSTALL ADA RAMPS												
						\$ 233.20				\$ -		\$ 233.20
03/11/2008	Rich Sieve	8	\$29.15			\$ 176.00	204 - 1-Ton	8	\$16.40	\$ 131.20		\$ 307.20
03/11/2008	Greg Eagan	8	\$22.00			\$ 228.48	209 - 1-Ton	8	\$25.50	\$ 204.00		\$ 432.48
03/11/2008	Bryan Finnegan	8	\$28.56									
03/11/2008	Schreiter Ready Mix - 2 yds @ \$79.00 per yd plus \$50.00 Short Load & \$32.00 Wait Time					\$ -				\$ -	\$ 240.00	\$ 240.00
03/11/2008	Bobcat of St. Louis - 2 ADA Ramps					\$ -				\$ -	\$ 400.00	\$ 400.00
POURED SIDEWALK												
03/12/2008	Rich Sieve	8	\$29.15			\$ 233.20	204	8	\$16.40	\$ 131.20		\$ 364.40
03/12/2008	Bryan Finnegan	8	\$28.56			\$ 228.48	240	8	\$28.00	\$ 224.00		\$ 452.48
03/12/2008	Greg Eagan	8	\$22.00			\$ 176.00	207	8	\$16.40	\$ 131.20		\$ 307.20
03/12/2008	Kevin Aslin	8	\$20.46			\$ 163.68	S250 - Skidloader	8	\$17.40	\$ 139.20		\$ 302.88
03/12/2008	Schreiter - 3 yds @ \$79.00 per yd plus \$40.00 Shortload & \$36.00 Wait Time					\$ -				\$ -	\$ 313.00	\$ 313.00
POURED CURB - GUTTER - STREET SLAB												
03/13/2008	Rich Sieve	8	\$29.15			\$ 233.20	S250 - Skidloader	8	\$17.40	\$ 139.20		\$ 372.40
03/13/2008	Bryan Finnegan	8	\$28.56			\$ 228.48	240 - Tandem	8	\$28.00	\$ 224.00		\$ 452.48
03/13/2008	Greg Eagan	8	\$22.00			\$ 176.00	206 - 1-Ton	8	\$16.40	\$ 131.20		\$ 307.20
03/13/2008	Chris Hofmann	8	\$23.31			\$ 186.48	204 - 1-Ton	8	\$16.40	\$ 131.20		\$ 317.68
03/13/2008	Fred Weber - 13.95 Tons 1" Minus Schreiter - 3 yds @ \$79.00 per yd plus \$40.00 Short Load					\$ -				\$ -	\$ 69.05	\$ 69.05
03/13/2008						\$ -				\$ -	\$ 277.00	\$ 277.00
POURED CURB - STREET SLAB												
03/14/2008	Rich Sieve	8	\$29.15			\$ 233.20	Case Backhoe	6	\$28.50	\$ 171.00		\$ 404.20
03/14/2008	Greg Eagan	8	\$22.00			\$ 176.00	204 - 1-Ton	8	\$16.40	\$ 131.20		\$ 307.20
03/14/2008	Casey Clark	8	\$20.77			\$ 166.16	S250 - Skidloader	8	\$17.40	\$ 139.20		\$ 305.36
03/14/2008	Joe Fornarotto	8	\$22.00			\$ 176.00	235 - Single Axle	8	\$25.50	\$ 204.00		\$ 380.00
03/14/2008	Rich Sieve						207 - 1-Ton	2	\$16.40	\$ 32.80		\$ 32.80
03/14/2008	Schreiter - 2 yds 6.5SK					\$ -				\$ -	\$ 211.50	\$ 211.50
03/14/2008	Schreiter - 7 yds 6.5SK					\$ -				\$ -	\$ 565.25	\$ 565.25
CONCRETE ORDERED - RAIN-OUT												
03/17/2008	Rich Sieve	3	\$29.15			\$ 87.45	204	3	\$16.40	\$ 49.20		\$ 136.65
03/17/2008	Greg Eagan	3	\$22.00			\$ 66.00				\$ -		\$ 66.00

03/17/2008	Schreiter - 3 yds 6.5SK w/Winter Service				\$ -				\$ -	\$ 284.50	\$ 284.50
POURED STREET SLAB											
03/20/2008	Rich Sieve	8	\$29.15		\$ 233.20	204 - 1-Ton	8	\$16.40	\$ 131.20		\$ 364.40
03/20/2008	Kevin Aslin	8	\$20.46		\$ 163.68						\$ 163.68
03/20/2008	Schreiter - 3 yds 6.5SK + Short Load Charge				\$ -				\$ -	\$ 270.25	\$ 270.25
CRACK SEALED ALL ROUTED JOINTS AND SLAB REPLACEMENTS											
03/24/2008	Joe Fornarotto	8	\$22.00		\$ 176.00	228	8	\$16.40	\$ 131.20		\$ 307.20
03/24/2008	Rich Sieve	8	\$29.15		\$ 233.20	204 - 1-Ton	4	\$16.40	\$ 65.60		\$ 298.80
03/24/2008	Casey Clark	8	\$20.77		\$ 166.16	Crack Sealer	8	\$50.65	\$ 405.20		\$ 571.36
03/24/2008	Rich Sieve				\$ -	Trailer w/Router	4	\$10.00	\$ 40.00		\$ 40.00
SET-UP STREET SLABS											
03/25/2008	Rich Sieve	8	\$29.15		\$ 233.20	240 - Tandem	8	\$28.00	\$ 224.00		\$ 457.20
03/25/2008	Greg Eagan	8	\$22.00		\$ 176.00	204 - 1-Ton	8	\$16.40	\$ 131.20		\$ 307.20
03/25/2008	Casey Clark	8	\$20.77		\$ 166.16	Case Backhoe	8	\$28.50	\$ 228.00		\$ 394.16
03/25/2008	Kevin Wiest	8	\$27.44		\$ 219.52	229 - 1-Ton	8	\$16.40	\$ 131.20		\$ 350.72
03/25/2008	Bryan Finnegan	8	\$28.56		\$ 228.48	S250 - Skidloader	8	\$17.40	\$ 139.20		\$ 367.68
03/25/2008	Fred Weber - 9.27 Tons 1" Minus				\$ -				\$ -	\$ 45.89	\$ 45.89
POURED SLABS AND BACKFILLED											
03/26/2008	Rich Sieve	8	\$29.15		\$ 233.20	204 - 1-Ton	8	\$16.40	\$ 131.20		\$ 364.40
03/26/2008	Greg Eagan	8	\$22.00		\$ 176.00	210 - 1-Ton	8	\$16.40	\$ 131.20		\$ 307.20
03/26/2008	Bryan Finnegan	8	\$28.56		\$ 228.48	207 - 1-Ton	8	\$16.40	\$ 131.20		\$ 359.68
03/26/2008	Casey Clark	8	\$20.77		\$ 166.16	T190 Skidloader	8	\$17.40	\$ 139.20		\$ 305.36
03/26/2008	Kevin Wiest	8	\$27.44		\$ 219.52				\$ -		\$ 219.52
03/26/2008	Schreiter - 9cy 6.5SK				\$ -				\$ -	\$ 690.75	\$ 690.75
CRACK SEALED AND SPOT PATCHED W/BIOSPAN											
03/28/2008	Rich Sieve	8	\$29.15		\$ 233.20	204 - 1-Ton	8	\$16.40	\$ 131.20		\$ 364.40
03/28/2008	Greg Eagan	8	\$22.00		\$ 176.00	207 - 1-Ton	8	\$16.40	\$ 131.20		\$ 307.20
03/28/2008	Chris Hofmann	8	\$23.31		\$ 186.48	Crack Sealer	8	\$50.65	\$ 405.20		\$ 591.68
INSTALLED END OF ROAD MARKERS - TORE OUT AND SET-UP SIDEWALK											
03/31/2008	Rich Sieve	5	\$29.15		\$ 145.75	S250 - Skidloader	5	\$17.40	\$ 87.00		\$ 232.75
03/31/2008	Greg Eagan	5	\$22.00		\$ 110.00	221	5	\$25.50	\$ 127.50		\$ 237.50
03/31/2008	Bryan Finnegan	5	\$28.56		\$ 142.80	204	5	\$16.40	\$ 82.00		\$ 224.80
03/31/2008	Kevin Kristensen	5	\$22.66		\$ 113.30	218	5	\$28.00	\$ 140.00		\$ 253.30
					\$ -				\$ -		\$ -
					\$ -				\$ -		\$ -
					\$ 7,294.50				\$ 5,577.50	\$ 3,367.19	
										Subtotal	\$ 16,239.19
										Total	\$ 16,239.19