File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

==== SCS Channel Flow ==========

R = Aq / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

Tc = (Lf / V) / (3600sec/hr)

Where: R = Hydraulic radius
Aq = Flow area, sq.ft.
Wp = Wetted perimeter, ft
V = Velocity, ft/sec
Sf = Slope, ft/ft
n = Mannings n
Tc = Time of concentration, hrs
Lf = Flow length, ft

TVA-00001725

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

::
TIME OF CONCENTRATION CALCULATOR
::

Segment #1: Tc: TR-55 Sheet

Mannings n	.0240	
Hydraulic Length	100.00	ft
2yr, 24hr P	3.2500	in
Slope	.330000	ft/ft
Avg.Velocity	2.28	ft/sec

Segment #1 Time: .0122 hrs

Segment #2: Tc: TR-55 Channel

Flow Area	1.1500	sq.ft
Wetted Perimeter	6.81	ft
Hydraulic Radius	.17	ft
Slope	.005000	ft/ft
Mannings n	.0350	
Hydraulic Length	300.00	ft
Avg.Velocity	.92	ft/sec

Segment #2 Time: .0906 hrs

Segment #3: Tc: TR-55 Channel

Flow Area	1.7500	sq.ft
Wetted Perimeter	5.16	ft
Hydraulic Radius	.34	ft
Slope	.330000	ft/ft
Mannings n	.0350	
Hydraulic Length	450.00	ft
Avg.Velocity	11.89	ft/sec

Segment #3 Time: .0105 hrs

TVA-00001726

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

Segment #4: Tc: TR-55 Channel

Flow Area	35.3500	sq.ft
Wetted Perimeter	53.00	ft
Hydraulic Radius	.67	ft
Slope	.005000	ft/ft
Mannings n	.0350	
Hydraulic Length	1600.00	ft
Avg.Velocity	2.30	ft/sec

Segment #4 Time: .1934 hrs

Total Tc: .3067 hrs

TVA-00001727

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

Tc Equations used...

==== SCS TR-55 Sheet Flow ==========

Tc = (.007 * ((n * Lf)**0.8)) / ((P**.5) * (Sf**.4))

Where: Tc = Time of concentration, hrs
n = Mannings n
Lf = Flow length, ft
P = 2yr, 24hr Rain depth, inches
Sf = Slope, %

==== SCS Channel Flow ==========

R = Aq / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

Tc = (Lf / V) / (3600sec/hr)

Where: R = Hydraulic radius
Aq = Flow area, sq.ft.
Wp = Wetted perimeter, ft
V = Velocity, ft/sec
Sf = Slope, ft/ft
n = Mannings n
Tc = Time of concentration, hrs
Lf = Flow length, ft

TVA-00001728

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

RUNOFF CURVE NUMBER DATA

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
Uncovered slope exist dredge cl	89	3.630			89.00
COMPOSITE AREA & WEIGHTED CN --->		3.630			89.00 (89)

TVA-00001729

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

RUNOFF CURVE NUMBER DATA

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
N slope exist dredge cell w/terr	71	10.130			71.00
COMPOSITE AREA & WEIGHTED CN --->		10.130			71.00 (71)

TVA-00001730

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

RUNOFF CURVE NUMBER DATA

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
Exist dredge cell 5% slope	71	3.810			71.00
COMPOSITE AREA & WEIGHTED CN --->		3.810			71.00 (71)

TVA-00001731

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

RUNOFF CURVE NUMBER DATA

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
Exposed ash/gypsum	87	9.750			87.00
COMPOSITE AREA & WEIGHTED CN --->		9.750			87.00 (87)

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

RUNOFF CURVE NUMBER DATA

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
Uncovered dredge cell 5% slope	89	6.920			89.00
COMPOSITE AREA & WEIGHTED CN --->		6.920			89.00 (89)

TVA-00001733

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

RUNOFF CURVE NUMBER DATA

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
S. Slope Exist dredge cell unvd	89	7.000			89.00
COMPOSITE AREA & WEIGHTED CN --->		7.000			89.00 (89)

TVA-00001734

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

RUNOFF CURVE NUMBER DATA

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
Outer area along outer dike	71	3.710			71.00
COMPOSITE AREA & WEIGHTED CN --->		3.710			71.00 (71)

TVA-00001735

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

RUNOFF CURVE NUMBER DATA

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
Flat area for north drainage ditch	71	10.660			71.00
COMPOSITE AREA & WEIGHTED CN --->		10.660			71.00 (71)

TVA-00001736

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

RUNOFF CURVE NUMBER DATA

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	Impervious Adjustment %UC	Adjusted CN
Grassed 3:1 Slope w/Terraces	71	9.230			71.00
COMPOSITE AREA & WEIGHTED CN --->		9.230			71.00 (71)

TVA-00001737

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

RUNOFF CURVE NUMBER DATA

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
SE Corner of exist dredge cell	71	2.070			71.00
COMPOSITE AREA & WEIGHTED CN --->		2.070			71.00 (71)

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

RUNOFF CURVE NUMBER DATA

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
3:1 slopes w/terrace ditches	71	9.750			71.00
COMPOSITE AREA & WEIGHTED CN --->		9.750			71.00 (71)

TVA-00001739

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

RUNOFF CURVE NUMBER DATA

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	Impervious Adjustment %UC	Adjusted CN
3:1 slope w/terraces NW Drdg cl	71	6.830			71.00
COMPOSITE AREA & WEIGHTED CN --->		6.830			71.00 (71)

TVA-00001740

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

RUNOFF CURVE NUMBER DATA

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
NE slope of exist dredge cell	89	10.920			89.00
COMPOSITE AREA & WEIGHTED CN --->		10.920			89.00 (89)

TVA-00001741

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

RUNOFF CURVE NUMBER DATA

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	Impervious Adjustment %UC	Adjusted CN
Uncovered gypsum	89	5.850			89.00
COMPOSITE AREA & WEIGHTED CN --->		5.850			89.00 (89)

TVA-00001742

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

RUNOFF CURVE NUMBER DATA

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
uncovered gypsum area	87	17.560			87.00
COMPOSITE AREA & WEIGHTED CN --->		17.560			87.00 (87)

TVA-00001743

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

RUNOFF CURVE NUMBER DATA

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
Exposed area w/o final cover	87	12.830			87.00
COMPOSITE AREA & WEIGHTED CN --->		12.830			87.00 (87)

TVA-00001744

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

RUNOFF CURVE NUMBER DATA

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
3:1 slope - gypsum stack	71	15.240			71.00
COMPOSITE AREA & WEIGHTED CN --->		15.240			71.00 (71)

TVA-00001745

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

RUNOFF CURVE NUMBER DATA

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
3:1 gypsum SW corner	71	2.130			71.00
COMPOSITE AREA & WEIGHTED CN --->		2.130			71.00 (71)

TVA-00001746

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

RUNOFF CURVE NUMBER DATA

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
3:1 slope south face gypsum	71	23.060			71.00
COMPOSITE AREA & WEIGHTED CN --->		23.060			71.00 (71)

TVA-00001747

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

RUNOFF CURVE NUMBER DATA

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
3:1 slope gypsum area	71	17.040			71.00
COMPOSITE AREA & WEIGHTED CN --->		17.040			71.00 (71)

TVA-00001748

ICPM HYDROGRAPH...
HYG file =
HYG ID = POND 2 IN
HYG Tag = 25yr

Peak Discharge =	489.25 cfs
Time to Peak =	12.0400 hrs
HYG Volume =	49.370 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
.0000	.00	.00	.00	.00	.00
.2000	.00	.00	.00	.00	.00
.4000	.00	.00	.00	.00	.00
.6000	.00	.00	.00	.00	.00
.8000	.00	.00	.00	.00	.00
1.0000	.00	.00	.00	.00	.00
1.2000	.00	.00	.00	.00	.00
1.4000	.00	.00	.00	.00	.00
1.6000	.00	.00	.00	.00	.00
1.8000	.00	.00	.00	.00	.00
2.0000	.00	.00	.00	.00	.00
2.2000	.00	.00	.00	.00	.00
2.4000	.00	.00	.00	.00	.00
2.6000	.00	.00	.00	.00	.00
2.8000	.00	.00	.00	.00	.00
3.0000	.00	.00	.00	.00	.00
3.2000	.00	.00	.00	.00	.00
3.4000	.00	.00	.00	.00	.00
3.6000	.00	.00	.00	.00	.00
3.8000	.00	.00	.00	.00	.00
4.0000	.00	.01	.01	.02	.02
4.2000	.03	.04	.04	.05	.06
4.4000	.07	.08	.09	.10	.12
4.6000	.14	.16	.18	.20	.23
4.8000	.25	.28	.30	.33	.36
5.0000	.39	.42	.45	.48	.51
5.2000	.54	.57	.60	.64	.67
5.4000	.70	.73	.77	.80	.83
5.6000	.87	.90	.93	.97	1.00
5.8000	1.04	1.07	1.11	1.14	1.18
6.0000	1.21	1.25	1.28	1.32	1.36
6.2000	1.39	1.43	1.47	1.50	1.54
6.4000	1.58	1.61	1.65	1.69	1.73

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
6.6000	1.77	1.80	1.84	1.88	1.92
6.8000	1.96	2.00	2.04	2.08	2.12
7.0000	2.16	2.20	2.24	2.28	2.32
7.2000	2.36	2.40	2.44	2.48	2.52
7.4000	2.56	2.60	2.64	2.68	2.72
7.6000	2.77	2.81	2.85	2.89	2.93
7.8000	2.97	3.02	3.06	3.10	3.14
8.0000	3.19	3.23	3.28	3.33	3.38
8.2000	3.44	3.51	3.58	3.65	3.73
8.4000	3.81	3.90	3.99	4.08	4.17
8.6000	4.27	4.37	4.47	4.57	4.68
8.8000	4.78	4.89	5.00	5.11	5.23
9.0000	5.34	5.46	5.57	5.68	5.79
9.2000	5.90	6.01	6.12	6.23	6.35
9.4000	6.46	6.57	6.68	6.80	6.91
9.6000	7.04	7.18	7.34	7.51	7.70
9.8000	7.90	8.12	8.34	8.58	8.83
10.0000	9.09	9.35	9.64	9.93	10.25
10.2000	10.58	10.93	11.29	11.67	12.07
10.4000	12.48	12.90	13.34	13.79	14.26
10.6000	14.76	15.28	15.85	16.44	17.07
10.8000	17.73	18.42	19.15	19.89	20.67
11.0000	21.47	22.32	23.24	24.24	25.35
11.2000	26.58	27.92	29.38	30.93	32.59
11.4000	34.35	36.18	38.14	40.65	45.05
11.6000	52.20	62.76	78.83	100.15	128.24
11.8000	163.31	210.08	274.16	347.67	414.04
12.0000	462.57	489.25	484.44	458.98	425.68
12.2000	389.72	355.27	322.76	292.43	265.91
12.4000	243.52	223.33	205.80	190.42	176.02
12.6000	163.13	151.45	140.72	131.07	122.49
12.8000	114.74	107.66	101.40	95.86	90.79
13.0000	86.22	82.06	78.27	74.81	71.64
13.2000	68.72	66.12	63.71	61.49	59.44
13.4000	57.53	55.74	54.06	52.49	51.00
13.6000	49.57	48.26	47.01	45.81	44.69
13.8000	43.63	42.60	41.63	40.70	39.79
14.0000	38.91	38.09	37.29	36.54	35.85
14.2000	35.20	34.61	34.06	33.55	33.08
14.4000	32.63	32.21	31.81	31.43	31.07
14.6000	30.73	30.39	30.08	29.78	29.49
14.8000	29.19	28.92	28.65	28.38	28.12
15.0000	27.86	27.61	27.35	27.11	26.86
15.2000	26.61	26.37	26.13	25.90	25.66
15.4000	25.42	25.18	24.94	24.71	24.48
15.6000	24.24	24.00	23.77	23.54	23.30
15.8000	23.06	22.83	22.59	22.36	22.13

TVA-00001750

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
16.0000	21.89	21.66	21.43	21.22	21.02
16.2000	20.84	20.66	20.50	20.35	20.21
16.4000	20.08	19.95	19.83	19.72	19.61
16.6000	19.50	19.40	19.30	19.20	19.10
16.8000	19.01	18.91	18.82	18.73	18.64
17.0000	18.55	18.46	18.37	18.29	18.20
17.2000	18.11	18.03	17.94	17.86	17.77
17.4000	17.69	17.60	17.52	17.44	17.35
17.6000	17.27	17.18	17.10	17.02	16.93
17.8000	16.85	16.76	16.68	16.60	16.51
18.0000	16.43	16.34	16.26	16.18	16.09
18.2000	16.01	15.92	15.84	15.76	15.67
18.4000	15.59	15.50	15.42	15.34	15.25
18.6000	15.17	15.08	15.00	14.91	14.83
18.8000	14.74	14.66	14.57	14.49	14.41
19.0000	14.32	14.23	14.15	14.07	13.98
19.2000	13.89	13.81	13.72	13.64	13.56
19.4000	13.47	13.38	13.30	13.21	13.13
19.6000	13.04	12.95	12.87	12.78	12.70
19.8000	12.61	12.53	12.44	12.36	12.27
20.0000	12.18	12.10	12.02	11.94	11.87
20.2000	11.81	11.75	11.70	11.65	11.61
20.4000	11.57	11.53	11.50	11.47	11.44
20.6000	11.41	11.38	11.36	11.33	11.31
20.8000	11.29	11.26	11.24	11.22	11.21
21.0000	11.18	11.16	11.15	11.13	11.11
21.2000	11.09	11.07	11.06	11.04	11.02
21.4000	11.00	10.99	10.97	10.95	10.94
21.6000	10.92	10.90	10.88	10.87	10.85
21.8000	10.83	10.82	10.80	10.79	10.77
22.0000	10.75	10.73	10.72	10.70	10.69
22.2000	10.67	10.65	10.64	10.62	10.60
22.4000	10.59	10.57	10.55	10.54	10.52
22.6000	10.50	10.49	10.47	10.46	10.44
22.8000	10.42	10.40	10.39	10.37	10.36
23.0000	10.34	10.32	10.30	10.29	10.27
23.2000	10.26	10.24	10.22	10.21	10.19
23.4000	10.17	10.15	10.14	10.12	10.11
23.6000	10.09	10.07	10.06	10.04	10.02
23.8000	10.01	9.99	9.97	9.96	9.94
24.0000	9.90	9.67	9.03	8.13	7.17
24.2000	6.29	5.47	4.73	4.08	3.52
24.4000	3.05	2.64	2.31	2.02	1.77
24.6000	1.56	1.37	1.20	1.06	.93
24.8000	.82	.72	.63	.55	.49
25.0000	.43	.38	.34	.30	.27
25.2000	.24	.21	.19	.17	.15

TVA-00001751

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
25.4000	.13	.12	.11	.10	.08
25.6000	.08	.07	.06	.05	.05
25.8000	.04	.04	.03	.03	.03
26.0000	.02	.02	.02	.02	.01
26.2000	.01	.01	.01	.01	.01
26.4000	.01	.00	.00	.00	.00
26.6000	.00	.00	.00	.00	.00
26.8000	.00	.00	.00	.00	.00
27.0000	.00	.00	.00	.00	.00
27.2000	.00	.00	.00	.00	.00
27.4000	.00	.00	.00	.00	.00
27.6000	.00	.00	.00	.00	.00
27.8000	.00	.00	.00	.00	.00
28.0000	.00	.00	.00	.00	.00
28.2000	.00	.00	.00	.00	.00
28.4000	.00	.00	.00	.00	.00
28.6000	.00	.00	.00	.00	.00
28.8000	.00	.00	.00	.00	.00
29.0000	.00	.00	.00	.00	.00
29.2000	.00	.00	.00	.00	.00
29.4000	.00	.00	.00	.00	.00
29.6000	.00	.00	.00	.00	.00
29.8000	.00	.00	.00	.00	.00
30.0000	.00	.00	.00	.00	.00
30.2000	.00	.00	.00	.00	.00
30.4000	.00	.00	.00	.00	.00
30.6000	.00	.00	.00	.00	.00
30.8000	.00	.00	.00	.00	.00
31.0000	.00	.00	.00	.00	.00
31.2000	.00	.00	.00	.00	.00
31.4000	.00	.00	.00	.00	.00
31.6000	.00	.00	.00	.00	.00
31.8000	.00	.00	.00	.00	.00
32.0000	.00	.00	.00	.00	.00
32.2000	.00	.00	.00	.00	.00
32.4000	.00	.00	.00	.00	.00
32.6000	.00	.00	.00	.00	.00
32.8000	.00	.00	.00	.00	.00
33.0000	.00	.00	.00	.00	.00
33.2000	.00	.00	.00	.00	.00
33.4000	.00	.00	.00	.00	.00
33.6000	.00	.00	.00	.00	.00
33.8000	.00	.00	.00	.00	.00
34.0000	.00	.00	.00	.00	.00
34.2000	.00	.00	.00	.00	.00
34.4000	.00	.00	.00	.00	.00
34.6000	.00	.00	.00	.00	.00

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
34.8000	.00	.00	.00	.00	.00
35.0000	.00				

TVA-00001753

ICPM HYDROGRAPH...
HYG file =
HYG ID = POND 2 IN
HYG Tag = 100yr

Peak Discharge =	624.90 cfs
Time to Peak =	12.0400 hrs
HYG Volume =	62.967 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
.0000	.00	.00	.00	.00	.00
.2000	.00	.00	.00	.00	.00
.4000	.00	.00	.00	.00	.00
.6000	.00	.00	.00	.00	.00
.8000	.00	.00	.00	.00	.00
1.0000	.00	.00	.00	.00	.00
1.2000	.00	.00	.00	.00	.00
1.4000	.00	.00	.00	.00	.00
1.6000	.00	.00	.00	.00	.00
1.8000	.00	.00	.00	.00	.00
2.0000	.00	.00	.00	.00	.00
2.2000	.00	.00	.00	.00	.00
2.4000	.00	.00	.00	.00	.00
2.6000	.00	.00	.00	.00	.00
2.8000	.00	.00	.00	.00	.00
3.0000	.00	.00	.00	.00	.00
3.2000	.00	.00	.00	.00	.00
3.4000	.00	.00	.01	.01	.01
3.6000	.02	.03	.04	.05	.06
3.8000	.07	.08	.09	.10	.12
4.0000	.14	.16	.18	.21	.24
4.2000	.27	.30	.33	.36	.40
4.4000	.43	.47	.50	.54	.57
4.6000	.61	.65	.68	.72	.76
4.8000	.80	.84	.88	.91	.95
5.0000	.99	1.03	1.07	1.12	1.16
5.2000	1.20	1.24	1.28	1.32	1.37
5.4000	1.41	1.45	1.49	1.54	1.58
5.6000	1.62	1.67	1.71	1.76	1.80
5.8000	1.85	1.89	1.94	1.98	2.03
6.0000	2.07	2.12	2.17	2.21	2.26
6.2000	2.31	2.35	2.40	2.45	2.49
6.4000	2.54	2.59	2.64	2.69	2.73

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
6.6000	2.78	2.83	2.88	2.93	2.98
6.8000	3.03	3.08	3.13	3.17	3.22
7.0000	3.27	3.32	3.37	3.42	3.47
7.2000	3.53	3.58	3.63	3.68	3.73
7.4000	3.78	3.83	3.88	3.93	3.98
7.6000	4.04	4.09	4.14	4.19	4.24
7.8000	4.30	4.35	4.40	4.45	4.50
8.0000	4.56	4.61	4.67	4.73	4.80
8.2000	4.88	4.96	5.05	5.15	5.26
8.4000	5.38	5.51	5.65	5.80	5.95
8.6000	6.12	6.29	6.47	6.65	6.85
8.8000	7.05	7.25	7.46	7.67	7.89
9.0000	8.12	8.35	8.57	8.79	9.01
9.2000	9.21	9.41	9.60	9.78	9.96
9.4000	10.13	10.29	10.45	10.61	10.78
9.6000	10.96	11.15	11.37	11.60	11.86
9.8000	12.14	12.43	12.74	13.07	13.41
10.0000	13.76	14.13	14.51	14.92	15.34
10.2000	15.80	16.27	16.77	17.28	17.82
10.4000	18.38	18.95	19.54	20.14	20.78
10.6000	21.45	22.15	22.91	23.71	24.55
10.8000	25.44	26.36	27.33	28.32	29.35
11.0000	30.42	31.54	32.77	34.09	35.56
11.2000	37.20	38.97	40.90	42.95	45.15
11.4000	47.47	49.88	52.46	55.75	61.59
11.6000	71.09	85.07	106.26	134.19	170.79
11.8000	216.11	276.07	357.54	450.18	532.98
12.0000	592.77	624.90	617.50	584.35	541.45
12.2000	495.32	451.10	409.42	370.57	336.65
12.4000	307.98	282.12	259.72	240.10	221.73
12.6000	205.33	190.48	176.85	164.60	153.70
12.8000	143.87	134.90	126.95	119.93	113.52
13.0000	107.73	102.46	97.67	93.30	89.29
13.2000	85.62	82.34	79.29	76.49	73.91
13.4000	71.50	69.25	67.13	65.16	63.29
13.6000	61.49	59.85	58.28	56.77	55.38
13.8000	54.05	52.76	51.54	50.38	49.24
14.0000	48.15	47.12	46.12	45.19	44.32
14.2000	43.51	42.77	42.08	41.45	40.86
14.4000	40.30	39.77	39.28	38.81	38.36
14.6000	37.93	37.51	37.11	36.74	36.38
14.8000	36.01	35.67	35.33	35.00	34.68
15.0000	34.35	34.03	33.72	33.41	33.11
15.2000	32.80	32.50	32.20	31.91	31.61
15.4000	31.31	31.02	30.72	30.44	30.14
15.6000	29.85	29.56	29.26	28.98	28.69
15.8000	28.40	28.10	27.81	27.53	27.24

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
16.0000	26.94	26.66	26.38	26.12	25.87
16.2000	25.64	25.42	25.22	25.04	24.87
16.4000	24.70	24.54	24.40	24.26	24.12
16.6000	23.98	23.85	23.73	23.61	23.49
16.8000	23.37	23.25	23.14	23.03	22.91
17.0000	22.80	22.69	22.58	22.48	22.37
17.2000	22.26	22.15	22.05	21.94	21.84
17.4000	21.73	21.63	21.52	21.42	21.32
17.6000	21.21	21.11	21.00	20.90	20.80
17.8000	20.69	20.59	20.48	20.38	20.28
18.0000	20.17	20.07	19.96	19.86	19.76
18.2000	19.65	19.55	19.44	19.34	19.24
18.4000	19.13	19.03	18.92	18.82	18.72
18.6000	18.61	18.51	18.40	18.30	18.20
18.8000	18.09	17.98	17.88	17.78	17.67
19.0000	17.57	17.46	17.36	17.25	17.15
19.2000	17.04	16.94	16.83	16.73	16.63
19.4000	16.52	16.41	16.31	16.20	16.10
19.6000	15.99	15.89	15.78	15.68	15.57
19.8000	15.46	15.36	15.25	15.15	15.04
20.0000	14.94	14.83	14.73	14.64	14.55
20.2000	14.47	14.40	14.34	14.28	14.23
20.4000	14.18	14.13	14.09	14.05	14.02
20.6000	13.98	13.95	13.92	13.89	13.86
20.8000	13.83	13.80	13.78	13.75	13.73
21.0000	13.70	13.68	13.65	13.63	13.61
21.2000	13.59	13.56	13.54	13.52	13.50
21.4000	13.48	13.46	13.44	13.42	13.40
21.6000	13.37	13.35	13.33	13.31	13.29
21.8000	13.27	13.25	13.23	13.21	13.19
22.0000	13.17	13.14	13.12	13.11	13.09
22.2000	13.06	13.04	13.02	13.00	12.98
22.4000	12.96	12.94	12.92	12.90	12.88
22.6000	12.86	12.84	12.82	12.80	12.78
22.8000	12.76	12.73	12.71	12.70	12.68
23.0000	12.65	12.63	12.61	12.59	12.57
23.2000	12.55	12.53	12.51	12.49	12.47
23.4000	12.45	12.42	12.40	12.39	12.37
23.6000	12.34	12.32	12.30	12.28	12.26
23.8000	12.24	12.22	12.20	12.18	12.16
24.0000	12.11	11.83	11.05	9.94	8.77
24.2000	7.70	6.70	5.79	5.00	4.31
24.4000	3.73	3.24	2.82	2.47	2.17
24.6000	1.91	1.67	1.47	1.29	1.13
24.8000	1.00	.88	.77	.68	.60
25.0000	.53	.47	.42	.37	.33
25.2000	.29	.26	.23	.21	.18

TVA-00001756

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
25.4000	.16	.14	.13	.12	.10
25.6000	.09	.08	.07	.07	.06
25.8000	.05	.05	.04	.04	.03
26.0000	.03	.03	.02	.02	.02
26.2000	.02	.01	.01	.01	.01
26.4000	.01	.01	.00	.00	.00
26.6000	.00	.00	.00	.00	.00
26.8000	.00	.00	.00	.00	.00
27.0000	.00	.00	.00	.00	.00
27.2000	.00	.00	.00	.00	.00
27.4000	.00	.00	.00	.00	.00
27.6000	.00	.00	.00	.00	.00
27.8000	.00	.00	.00	.00	.00
28.0000	.00	.00	.00	.00	.00
28.2000	.00	.00	.00	.00	.00
28.4000	.00	.00	.00	.00	.00
28.6000	.00	.00	.00	.00	.00
28.8000	.00	.00	.00	.00	.00
29.0000	.00	.00	.00	.00	.00
29.2000	.00	.00	.00	.00	.00
29.4000	.00	.00	.00	.00	.00
29.6000	.00	.00	.00	.00	.00
29.8000	.00	.00	.00	.00	.00
30.0000	.00	.00	.00	.00	.00
30.2000	.00	.00	.00	.00	.00
30.4000	.00	.00	.00	.00	.00
30.6000	.00	.00	.00	.00	.00
30.8000	.00	.00	.00	.00	.00
31.0000	.00	.00	.00	.00	.00
31.2000	.00	.00	.00	.00	.00
31.4000	.00	.00	.00	.00	.00
31.6000	.00	.00	.00	.00	.00
31.8000	.00	.00	.00	.00	.00
32.0000	.00	.00	.00	.00	.00
32.2000	.00	.00	.00	.00	.00
32.4000	.00	.00	.00	.00	.00
32.6000	.00	.00	.00	.00	.00
32.8000	.00	.00	.00	.00	.00
33.0000	.00	.00	.00	.00	.00
33.2000	.00	.00	.00	.00	.00
33.4000	.00	.00	.00	.00	.00
33.6000	.00	.00	.00	.00	.00
33.8000	.00	.00	.00	.00	.00
34.0000	.00	.00	.00	.00	.00
34.2000	.00	.00	.00	.00	.00
34.4000	.00	.00	.00	.00	.00
34.6000	.00	.00	.00	.00	.00

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
34.8000	.00	.00	.00	.00	.00
35.0000	.00				

TVA-00001758

ICPM HYDROGRAPH...
HYG file =
HYG ID = POND 2 OUT
HYG Tag = 25yr

Peak Discharge =	200.74 cfs
Time to Peak =	12.4800 hrs
HYG Volume =	49.413 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
.0000	.00	.00	.00	.00	.00
.2000	.00	.00	.00	.00	.00
.4000	.00	.00	.00	.00	.00
.6000	.00	.00	.00	.00	.00
.8000	.00	.00	.00	.00	.00
1.0000	.00	.00	.00	.00	.00
1.2000	.00	.00	.00	.00	.00
1.4000	.00	.00	.00	.00	.00
1.6000	.00	.00	.00	.00	.00
1.8000	.00	.00	.00	.00	.00
2.0000	.00	.00	.00	.00	.00
2.2000	.00	.00	.00	.00	.00
2.4000	.00	.00	.00	.00	.00
2.6000	.00	.00	.00	.00	.00
2.8000	.00	.00	.00	.00	.00
3.0000	.00	.00	.00	.00	.00
3.2000	.00	.00	.00	.00	.00
3.4000	.00	.00	.00	.00	.00
3.6000	.00	.00	.00	.00	.00
3.8000	.00	.00	.00	.00	.00
4.0000	.00	.00	.00	.00	.00
4.2000	.00	.00	.00	.00	.00
4.4000	.00	.00	.00	.01	.02
4.6000	.03	.04	.05	.06	.07
4.8000	.08	.09	.10	.11	.12
5.0000	.13	.14	.16	.18	.20
5.2000	.22	.24	.26	.28	.30
5.4000	.32	.34	.36	.38	.40
5.6000	.42	.44	.46	.49	.52
5.8000	.54	.57	.60	.63	.66
6.0000	.69	.72	.75	.78	.81
6.2000	.84	.87	.90	.93	.96
6.4000	.99	1.02	1.05	1.08	1.11

TVA-00001759

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
6.6000	1.14	1.17	1.20	1.23	1.26
6.8000	1.30	1.34	1.38	1.42	1.46
7.0000	1.50	1.54	1.57	1.61	1.65
7.2000	1.69	1.73	1.77	1.81	1.85
7.4000	1.89	1.93	1.97	2.01	2.05
7.6000	2.09	2.13	2.17	2.21	2.25
7.8000	2.29	2.33	2.37	2.41	2.45
8.0000	2.49	2.53	2.57	2.61	2.64
8.2000	2.68	2.72	2.76	2.80	2.85
8.4000	2.90	2.95	3.00	3.05	3.11
8.6000	3.17	3.23	3.29	3.35	3.42
8.8000	3.49	3.56	3.63	3.69	3.77
9.0000	3.85	3.93	4.01	4.09	4.18
9.2000	4.27	4.36	4.45	4.54	4.63
9.4000	4.72	4.80	4.89	4.99	5.09
9.6000	5.19	5.29	5.39	5.50	5.61
9.8000	5.72	5.83	5.95	6.08	6.22
10.0000	6.36	6.51	6.67	6.82	6.99
10.2000	7.17	7.36	7.55	7.75	7.95
10.4000	8.17	8.40	8.65	8.91	9.17
10.6000	9.45	9.74	10.03	10.35	10.68
10.8000	11.02	11.39	11.77	12.16	12.58
11.0000	13.02	13.47	13.95	14.44	14.97
11.2000	15.52	16.12	16.75	17.43	18.17
11.4000	18.95	19.78	20.66	21.61	22.69
11.6000	24.01	25.71	28.00	31.12	35.34
11.8000	40.96	48.37	58.22	71.06	90.35
12.0000	117.94	144.33	168.12	184.49	191.79
12.2000	192.51	194.25	196.36	198.13	199.40
12.4000	200.22	200.65	200.74	200.54	200.09
12.6000	199.40	198.51	197.45	196.23	194.87
12.8000	193.39	191.82	190.17	188.45	186.68
13.0000	184.87	183.02	179.21	174.87	170.58
13.2000	166.21	161.70	157.05	152.27	147.38
13.4000	142.40	137.34	132.22	127.07	121.90
13.6000	116.73	111.60	106.52	101.52	96.62
13.8000	91.85	87.23	83.26	79.96	76.95
14.0000	74.22	72.37	70.61	68.89	67.23
14.2000	65.61	64.05	62.54	61.09	59.67
14.4000	58.30	56.99	55.72	54.49	53.31
14.6000	52.17	51.07	50.01	48.99	48.01
14.8000	47.06	46.15	45.27	44.42	43.59
15.0000	42.80	42.04	41.30	40.58	39.89
15.2000	39.23	38.58	37.96	37.35	36.77
15.4000	36.19	35.63	35.10	34.57	34.07
15.6000	33.57	33.09	32.63	32.16	31.72
15.8000	31.28	30.86	30.44	30.03	29.64

TVA-00001760

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
16.0000	29.24	28.85	28.48	28.11	27.76
16.2000	27.41	27.06	26.73	26.40	26.08
16.4000	25.77	25.48	25.19	24.91	24.65
16.6000	24.39	24.13	23.88	23.64	23.42
16.8000	23.19	22.97	22.76	22.56	22.36
17.0000	22.16	21.97	21.79	21.61	21.44
17.2000	21.27	21.10	20.94	20.78	20.63
17.4000	20.48	20.34	20.20	20.06	19.92
17.6000	19.78	19.65	19.52	19.40	19.27
17.8000	19.15	19.03	18.91	18.79	18.67
18.0000	18.56	18.45	18.35	18.24	18.13
18.2000	18.02	17.91	17.80	17.70	17.60
18.4000	17.50	17.40	17.31	17.21	17.11
18.6000	17.01	16.91	16.81	16.71	16.61
18.8000	16.52	16.43	16.34	16.26	16.17
19.0000	16.08	15.99	15.90	15.81	15.72
19.2000	15.63	15.54	15.45	15.36	15.27
19.4000	15.19	15.10	15.01	14.92	14.83
19.6000	14.74	14.65	14.56	14.47	14.38
19.8000	14.29	14.20	14.12	14.03	13.94
20.0000	13.85	13.76	13.67	13.58	13.49
20.2000	13.40	13.32	13.24	13.16	13.09
20.4000	13.01	12.93	12.86	12.79	12.72
20.6000	12.65	12.58	12.52	12.46	12.40
20.8000	12.34	12.28	12.23	12.18	12.13
21.0000	12.08	12.04	11.99	11.95	11.91
21.2000	11.87	11.83	11.79	11.75	11.71
21.4000	11.67	11.64	11.61	11.58	11.55
21.6000	11.52	11.49	11.46	11.43	11.40
21.8000	11.37	11.34	11.31	11.28	11.25
22.0000	11.22	11.20	11.18	11.16	11.14
22.2000	11.12	11.10	11.08	11.06	11.04
22.4000	11.02	11.01	10.99	10.97	10.95
22.6000	10.93	10.91	10.89	10.87	10.85
22.8000	10.83	10.81	10.79	10.77	10.75
23.0000	10.73	10.71	10.69	10.67	10.65
23.2000	10.63	10.61	10.59	10.57	10.55
23.4000	10.53	10.51	10.49	10.47	10.45
23.6000	10.43	10.41	10.39	10.37	10.35
23.8000	10.33	10.31	10.29	10.27	10.25
24.0000	10.23	10.21	10.17	10.09	9.97
24.2000	9.80	9.60	9.37	9.11	8.84
24.4000	8.55	8.25	7.95	7.66	7.36
24.6000	7.06	6.78	6.49	6.21	5.94
24.8000	5.69	5.43	5.18	4.94	4.72
25.0000	4.50	4.29	4.09	3.89	3.70
25.2000	3.53	3.36	3.20	3.04	2.89

TVA-00001761

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
25.4000	2.75	2.62	2.49	2.37	2.25
25.6000	2.14	2.03	1.93	1.83	1.74
25.8000	1.65	1.57	1.50	1.42	1.35
26.0000	1.28	1.21	1.15	1.09	1.03
26.2000	.98	.93	.88	.83	.79
26.4000	.75	.71	.67	.64	.61
26.6000	.58	.55	.52	.50	.47
26.8000	.45	.43	.41	.39	.37
27.0000	.35	.33	.31	.29	.28
27.2000	.27	.26	.25	.24	.23
27.4000	.22	.21	.20	.19	.18
27.6000	.17	.16	.15	.14	.13
27.8000	.12	.11	.10	.09	.09
28.0000	.09	.09	.09	.09	.09
28.2000	.09	.09	.09	.09	.09
28.4000	.09	.09	.09	.09	.09
28.6000	.09	.09	.09	.09	.09
28.8000	.09	.09	.09	.09	.09
29.0000	.09	.09	.09	.09	.09
29.2000	.09	.09	.09	.09	.09
29.4000	.09	.09	.09	.09	.09
29.6000	.09	.09	.09	.09	.09
29.8000	.09	.09	.09	.09	.09
30.0000	.09	.09	.09	.09	.09
30.2000	.09	.09	.09	.09	.09
30.4000	.09	.09	.09	.09	.09
30.6000	.09	.09	.09	.09	.09
30.8000	.09	.09	.09	.09	.09
31.0000	.09	.09	.09	.09	.09
31.2000	.09	.09	.09	.09	.09
31.4000	.09	.09	.09	.09	.09
31.6000	.09	.09	.09	.09	.09
31.8000	.09	.09	.09	.09	.09
32.0000	.09	.09	.09	.09	.09
32.2000	.09	.09	.09	.09	.09
32.4000	.09	.09	.09	.09	.09
32.6000	.09	.09	.09	.09	.09
32.8000	.09	.09	.09	.09	.09
33.0000	.09	.09	.09	.09	.09
33.2000	.09	.09	.09	.09	.09
33.4000	.09	.09	.09	.09	.09
33.6000	.09	.09	.09	.09	.09
33.8000	.09	.09	.09	.09	.09
34.0000	.09	.09	.09	.09	.09
34.2000	.09	.09	.09	.09	.09
34.4000	.09	.09	.09	.09	.09
34.6000	.09	.09	.09	.09	.09

TVA-00001762

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
34.8000	.09	.09	.09	.09	.09
35.0000	.09				

ICPM HYDROGRAPH...
HYG file =
HYG ID = POND 2 OUT
HYG Tag = 100yr

Peak Discharge =	227.14 cfs
Time to Peak =	12.5200 hrs
HYG Volume =	63.018 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
.0000	.00	.00	.00	.00	.00
.2000	.00	.00	.00	.00	.00
.4000	.00	.00	.00	.00	.00
.6000	.00	.00	.00	.00	.00
.8000	.00	.00	.00	.00	.00
1.0000	.00	.00	.00	.00	.00
1.2000	.00	.00	.00	.00	.00
1.4000	.00	.00	.00	.00	.00
1.6000	.00	.00	.00	.00	.00
1.8000	.00	.00	.00	.00	.00
2.0000	.00	.00	.00	.00	.00
2.2000	.00	.00	.00	.00	.00
2.4000	.00	.00	.00	.00	.00
2.6000	.00	.00	.00	.00	.00
2.8000	.00	.00	.00	.00	.00
3.0000	.00	.00	.00	.00	.00
3.2000	.00	.00	.00	.00	.00
3.4000	.00	.00	.00	.00	.00
3.6000	.00	.00	.00	.00	.00
3.8000	.00	.00	.00	.00	.01
4.0000	.02	.03	.04	.05	.06
4.2000	.07	.08	.09	.10	.11
4.4000	.13	.15	.17	.19	.21
4.6000	.23	.25	.27	.29	.31
4.8000	.33	.36	.39	.42	.45
5.0000	.48	.51	.53	.56	.59
5.2000	.62	.65	.68	.71	.74
5.4000	.77	.80	.83	.87	.91
5.6000	.95	.99	1.03	1.07	1.11
5.8000	1.15	1.19	1.23	1.27	1.31
6.0000	1.35	1.39	1.43	1.47	1.51
6.2000	1.55	1.58	1.62	1.66	1.70
6.4000	1.74	1.78	1.82	1.86	1.90

TVA-00001764

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
6.6000	1.94	1.98	2.03	2.08	2.13
6.8000	2.18	2.23	2.28	2.33	2.38
7.0000	2.43	2.48	2.53	2.58	2.62
7.2000	2.67	2.72	2.77	2.82	2.87
7.4000	2.92	2.97	3.02	3.07	3.12
7.6000	3.17	3.22	3.27	3.32	3.37
7.8000	3.42	3.47	3.52	3.57	3.62
8.0000	3.67	3.71	3.76	3.81	3.86
8.2000	3.91	3.96	4.01	4.07	4.13
8.4000	4.19	4.26	4.33	4.40	4.48
8.6000	4.56	4.65	4.73	4.82	4.92
8.8000	5.03	5.14	5.25	5.37	5.50
9.0000	5.63	5.77	5.90	6.04	6.19
9.2000	6.34	6.49	6.65	6.81	6.96
9.4000	7.12	7.28	7.44	7.60	7.76
9.6000	7.91	8.07	8.24	8.41	8.58
9.8000	8.76	8.93	9.12	9.32	9.52
10.0000	9.73	9.95	10.17	10.41	10.66
10.2000	10.92	11.18	11.46	11.75	12.05
10.4000	12.35	12.68	13.02	13.36	13.73
10.6000	14.11	14.49	14.91	15.34	15.80
10.8000	16.27	16.76	17.28	17.81	18.37
11.0000	18.96	19.57	20.22	20.89	21.60
11.2000	22.36	23.16	24.01	24.92	25.89
11.4000	26.93	28.04	29.22	30.49	31.93
11.6000	33.68	35.94	38.97	43.10	48.66
11.8000	56.02	65.67	78.43	103.23	132.82
12.0000	164.18	190.82	198.03	201.70	206.92
12.2000	212.23	216.66	219.68	222.10	223.98
12.4000	225.38	226.34	226.91	227.14	227.07
12.6000	226.73	226.14	225.34	224.35	223.19
12.8000	221.89	220.47	218.94	217.32	215.63
13.0000	213.88	211.90	209.67	207.43	205.20
13.2000	202.95	200.70	198.44	196.18	193.92
13.4000	191.68	189.45	187.23	185.02	182.84
13.6000	178.31	173.36	168.50	163.59	158.56
13.8000	153.42	148.18	142.85	137.47	132.04
14.0000	126.59	121.15	115.74	110.38	105.12
14.2000	99.96	94.94	90.08	85.42	81.85
14.4000	78.63	75.74	73.40	71.66	69.97
14.6000	68.36	66.80	65.31	63.86	62.47
14.8000	61.14	59.85	58.61	57.42	56.27
15.0000	55.16	54.09	53.06	52.07	51.11
15.2000	50.19	49.30	48.44	47.61	46.80
15.4000	46.02	45.27	44.54	43.81	43.13
15.6000	42.47	41.82	41.18	40.55	39.96
15.8000	39.37	38.81	38.26	37.72	37.19

TVA-00001765

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
16.0000	36.67	36.17	35.67	35.19	34.72
16.2000	34.25	33.81	33.37	32.95	32.53
16.4000	32.13	31.75	31.37	31.00	30.66
16.6000	30.32	29.99	29.68	29.37	29.07
16.8000	28.79	28.51	28.23	27.96	27.71
17.0000	27.46	27.22	26.98	26.75	26.53
17.2000	26.31	26.10	25.89	25.70	25.50
17.4000	25.31	25.12	24.94	24.76	24.59
17.6000	24.42	24.25	24.08	23.92	23.76
17.8000	23.60	23.46	23.31	23.16	23.01
18.0000	22.87	22.73	22.59	22.46	22.32
18.2000	22.18	22.05	21.92	21.79	21.66
18.4000	21.53	21.41	21.28	21.16	21.04
18.6000	20.92	20.80	20.68	20.56	20.45
18.8000	20.33	20.21	20.09	19.97	19.85
19.0000	19.73	19.61	19.50	19.40	19.29
19.2000	19.18	19.07	18.96	18.85	18.74
19.4000	18.63	18.52	18.41	18.31	18.20
19.6000	18.09	17.98	17.87	17.76	17.65
19.8000	17.54	17.43	17.32	17.22	17.11
20.0000	17.00	16.89	16.78	16.67	16.56
20.2000	16.45	16.35	16.26	16.16	16.06
20.4000	15.96	15.87	15.78	15.69	15.60
20.6000	15.52	15.44	15.36	15.28	15.21
20.8000	15.15	15.08	15.01	14.95	14.89
21.0000	14.83	14.77	14.71	14.65	14.60
21.2000	14.55	14.50	14.45	14.40	14.35
21.4000	14.31	14.27	14.23	14.19	14.16
21.6000	14.12	14.08	14.04	14.00	13.96
21.8000	13.92	13.89	13.86	13.83	13.80
22.0000	13.77	13.74	13.71	13.68	13.65
22.2000	13.62	13.59	13.56	13.53	13.50
22.4000	13.47	13.44	13.41	13.38	13.35
22.6000	13.32	13.30	13.28	13.26	13.24
22.8000	13.22	13.20	13.18	13.16	13.14
23.0000	13.12	13.10	13.08	13.06	13.04
23.2000	13.02	13.00	12.98	12.96	12.94
23.4000	12.92	12.90	12.87	12.85	12.83
23.6000	12.81	12.79	12.77	12.75	12.73
23.8000	12.71	12.69	12.67	12.65	12.63
24.0000	12.60	12.57	12.51	12.41	12.25
24.2000	12.05	11.80	11.51	11.19	10.86
24.4000	10.50	10.14	9.78	9.41	9.04
24.6000	8.69	8.33	7.98	7.65	7.32
24.8000	6.99	6.69	6.39	6.10	5.82
25.0000	5.56	5.30	5.05	4.81	4.59
25.2000	4.37	4.16	3.96	3.77	3.59

TVA-00001766

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
25.4000	3.41	3.24	3.08	2.93	2.78
25.6000	2.64	2.52	2.39	2.27	2.16
25.8000	2.05	1.95	1.85	1.76	1.67
26.0000	1.58	1.51	1.43	1.36	1.29
26.2000	1.22	1.16	1.10	1.04	.99
26.4000	.94	.89	.84	.80	.76
26.6000	.72	.68	.64	.61	.58
26.8000	.55	.52	.50	.47	.45
27.0000	.43	.41	.39	.37	.35
27.2000	.33	.31	.29	.28	.27
27.4000	.26	.25	.24	.23	.22
27.6000	.21	.20	.19	.18	.17
27.8000	.16	.15	.14	.13	.12
28.0000	.11	.10	.09	.09	.09
28.2000	.09	.09	.09	.09	.09
28.4000	.09	.09	.09	.09	.09
28.6000	.09	.09	.09	.09	.09
28.8000	.09	.09	.09	.09	.09
29.0000	.09	.09	.09	.09	.09
29.2000	.09	.09	.09	.09	.09
29.4000	.09	.09	.09	.09	.09
29.6000	.09	.09	.09	.09	.09
29.8000	.09	.09	.09	.09	.09
30.0000	.09	.09	.09	.09	.09
30.2000	.09	.09	.09	.09	.09
30.4000	.09	.09	.09	.09	.09
30.6000	.09	.09	.09	.09	.09
30.8000	.09	.09	.09	.09	.09
31.0000	.09	.09	.09	.09	.09
31.2000	.09	.09	.09	.09	.09
31.4000	.09	.09	.09	.09	.09
31.6000	.09	.09	.09	.09	.09
31.8000	.09	.09	.09	.09	.09
32.0000	.09	.09	.09	.09	.09
32.2000	.09	.09	.09	.09	.09
32.4000	.09	.09	.09	.09	.09
32.6000	.09	.09	.09	.09	.09
32.8000	.09	.09	.09	.09	.09
33.0000	.09	.09	.09	.09	.09
33.2000	.09	.09	.09	.09	.09
33.4000	.09	.09	.09	.09	.09
33.6000	.09	.09	.09	.09	.09
33.8000	.09	.09	.09	.09	.09
34.0000	.09	.09	.09	.09	.09
34.2000	.09	.09	.09	.09	.09
34.4000	.09	.09	.09	.09	.09
34.6000	.09	.09	.09	.09	.09

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
34.8000	.09	.09	.09	.09	.09
35.0000	.09				

ICPM HYDROGRAPH...
HYG file =
HYG ID = POND 3 IN
HYG Tag = 25yr

Peak Discharge =	200.74 cfs
Time to Peak =	12.4800 hrs
HYG Volume =	49.413 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
.0000	.00	.00	.00	.00	.00
.2000	.00	.00	.00	.00	.00
.4000	.00	.00	.00	.00	.00
.6000	.00	.00	.00	.00	.00
.8000	.00	.00	.00	.00	.00
1.0000	.00	.00	.00	.00	.00
1.2000	.00	.00	.00	.00	.00
1.4000	.00	.00	.00	.00	.00
1.6000	.00	.00	.00	.00	.00
1.8000	.00	.00	.00	.00	.00
2.0000	.00	.00	.00	.00	.00
2.2000	.00	.00	.00	.00	.00
2.4000	.00	.00	.00	.00	.00
2.6000	.00	.00	.00	.00	.00
2.8000	.00	.00	.00	.00	.00
3.0000	.00	.00	.00	.00	.00
3.2000	.00	.00	.00	.00	.00
3.4000	.00	.00	.00	.00	.00
3.6000	.00	.00	.00	.00	.00
3.8000	.00	.00	.00	.00	.00
4.0000	.00	.00	.00	.00	.00
4.2000	.00	.00	.00	.00	.00
4.4000	.00	.00	.00	.01	.02
4.6000	.03	.04	.05	.06	.07
4.8000	.08	.09	.10	.11	.12
5.0000	.13	.14	.16	.18	.20
5.2000	.22	.24	.26	.28	.30
5.4000	.32	.34	.36	.38	.40
5.6000	.42	.44	.46	.49	.52
5.8000	.54	.57	.60	.63	.66
6.0000	.69	.72	.75	.78	.81
6.2000	.84	.87	.90	.93	.96
6.4000	.99	1.02	1.05	1.08	1.11

TVA-00001769

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
6.6000	1.14	1.17	1.20	1.23	1.26
6.8000	1.30	1.34	1.38	1.42	1.46
7.0000	1.50	1.54	1.57	1.61	1.65
7.2000	1.69	1.73	1.77	1.81	1.85
7.4000	1.89	1.93	1.97	2.01	2.05
7.6000	2.09	2.13	2.17	2.21	2.25
7.8000	2.29	2.33	2.37	2.41	2.45
8.0000	2.49	2.53	2.57	2.61	2.64
8.2000	2.68	2.72	2.76	2.80	2.85
8.4000	2.90	2.95	3.00	3.05	3.11
8.6000	3.17	3.23	3.29	3.35	3.42
8.8000	3.49	3.56	3.63	3.69	3.77
9.0000	3.85	3.93	4.01	4.09	4.18
9.2000	4.27	4.36	4.45	4.54	4.63
9.4000	4.72	4.80	4.89	4.99	5.09
9.6000	5.19	5.29	5.39	5.50	5.61
9.8000	5.72	5.83	5.95	6.08	6.22
10.0000	6.36	6.51	6.67	6.82	6.99
10.2000	7.17	7.36	7.55	7.75	7.95
10.4000	8.17	8.40	8.65	8.91	9.17
10.6000	9.45	9.74	10.03	10.35	10.68
10.8000	11.02	11.39	11.77	12.16	12.58
11.0000	13.02	13.47	13.95	14.44	14.97
11.2000	15.52	16.12	16.75	17.43	18.17
11.4000	18.95	19.78	20.66	21.61	22.69
11.6000	24.01	25.71	28.00	31.12	35.34
11.8000	40.96	48.37	58.22	71.06	90.35
12.0000	117.94	144.33	168.12	184.49	191.79
12.2000	192.51	194.25	196.36	198.13	199.40
12.4000	200.22	200.65	200.74	200.54	200.09
12.6000	199.40	198.51	197.45	196.23	194.87
12.8000	193.39	191.82	190.17	188.45	186.68
13.0000	184.87	183.02	179.21	174.87	170.58
13.2000	166.21	161.70	157.05	152.27	147.38
13.4000	142.40	137.34	132.22	127.07	121.90
13.6000	116.73	111.60	106.52	101.52	96.62
13.8000	91.85	87.23	83.26	79.96	76.95
14.0000	74.22	72.37	70.61	68.89	67.23
14.2000	65.61	64.05	62.54	61.09	59.67
14.4000	58.30	56.99	55.72	54.49	53.31
14.6000	52.17	51.07	50.01	48.99	48.01
14.8000	47.06	46.15	45.27	44.42	43.59
15.0000	42.80	42.04	41.30	40.58	39.89
15.2000	39.23	38.58	37.96	37.35	36.77
15.4000	36.19	35.63	35.10	34.57	34.07
15.6000	33.57	33.09	32.63	32.16	31.72
15.8000	31.28	30.86	30.44	30.03	29.64

TVA-00001770

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
16.0000	29.24	28.85	28.48	28.11	27.76
16.2000	27.41	27.06	26.73	26.40	26.08
16.4000	25.77	25.48	25.19	24.91	24.65
16.6000	24.39	24.13	23.88	23.64	23.42
16.8000	23.19	22.97	22.76	22.56	22.36
17.0000	22.16	21.97	21.79	21.61	21.44
17.2000	21.27	21.10	20.94	20.78	20.63
17.4000	20.48	20.34	20.20	20.06	19.92
17.6000	19.78	19.65	19.52	19.40	19.27
17.8000	19.15	19.03	18.91	18.79	18.67
18.0000	18.56	18.45	18.35	18.24	18.13
18.2000	18.02	17.91	17.80	17.70	17.60
18.4000	17.50	17.40	17.31	17.21	17.11
18.6000	17.01	16.91	16.81	16.71	16.61
18.8000	16.52	16.43	16.34	16.26	16.17
19.0000	16.08	15.99	15.90	15.81	15.72
19.2000	15.63	15.54	15.45	15.36	15.27
19.4000	15.19	15.10	15.01	14.92	14.83
19.6000	14.74	14.65	14.56	14.47	14.38
19.8000	14.29	14.20	14.12	14.03	13.94
20.0000	13.85	13.76	13.67	13.58	13.49
20.2000	13.40	13.32	13.24	13.16	13.09
20.4000	13.01	12.93	12.86	12.79	12.72
20.6000	12.65	12.58	12.52	12.46	12.40
20.8000	12.34	12.28	12.23	12.18	12.13
21.0000	12.08	12.04	11.99	11.95	11.91
21.2000	11.87	11.83	11.79	11.75	11.71
21.4000	11.67	11.64	11.61	11.58	11.55
21.6000	11.52	11.49	11.46	11.43	11.40
21.8000	11.37	11.34	11.31	11.28	11.25
22.0000	11.22	11.20	11.18	11.16	11.14
22.2000	11.12	11.10	11.08	11.06	11.04
22.4000	11.02	11.01	10.99	10.97	10.95
22.6000	10.93	10.91	10.89	10.87	10.85
22.8000	10.83	10.81	10.79	10.77	10.75
23.0000	10.73	10.71	10.69	10.67	10.65
23.2000	10.63	10.61	10.59	10.57	10.55
23.4000	10.53	10.51	10.49	10.47	10.45
23.6000	10.43	10.41	10.39	10.37	10.35
23.8000	10.33	10.31	10.29	10.27	10.25
24.0000	10.23	10.21	10.17	10.09	9.97
24.2000	9.80	9.60	9.37	9.11	8.84
24.4000	8.55	8.25	7.95	7.66	7.36
24.6000	7.06	6.78	6.49	6.21	5.94
24.8000	5.69	5.43	5.18	4.94	4.72
25.0000	4.50	4.29	4.09	3.89	3.70
25.2000	3.53	3.36	3.20	3.04	2.89

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
25.4000	2.75	2.62	2.49	2.37	2.25
25.6000	2.14	2.03	1.93	1.83	1.74
25.8000	1.65	1.57	1.50	1.42	1.35
26.0000	1.28	1.21	1.15	1.09	1.03
26.2000	.98	.93	.88	.83	.79
26.4000	.75	.71	.67	.64	.61
26.6000	.58	.55	.52	.50	.47
26.8000	.45	.43	.41	.39	.37
27.0000	.35	.33	.31	.29	.28
27.2000	.27	.26	.25	.24	.23
27.4000	.22	.21	.20	.19	.18
27.6000	.17	.16	.15	.14	.13
27.8000	.12	.11	.10	.09	.09
28.0000	.09	.09	.09	.09	.09
28.2000	.09	.09	.09	.09	.09
28.4000	.09	.09	.09	.09	.09
28.6000	.09	.09	.09	.09	.09
28.8000	.09	.09	.09	.09	.09
29.0000	.09	.09	.09	.09	.09
29.2000	.09	.09	.09	.09	.09
29.4000	.09	.09	.09	.09	.09
29.6000	.09	.09	.09	.09	.09
29.8000	.09	.09	.09	.09	.09
30.0000	.09	.09	.09	.09	.09
30.2000	.09	.09	.09	.09	.09
30.4000	.09	.09	.09	.09	.09
30.6000	.09	.09	.09	.09	.09
30.8000	.09	.09	.09	.09	.09
31.0000	.09	.09	.09	.09	.09
31.2000	.09	.09	.09	.09	.09
31.4000	.09	.09	.09	.09	.09
31.6000	.09	.09	.09	.09	.09
31.8000	.09	.09	.09	.09	.09
32.0000	.09	.09	.09	.09	.09
32.2000	.09	.09	.09	.09	.09
32.4000	.09	.09	.09	.09	.09
32.6000	.09	.09	.09	.09	.09
32.8000	.09	.09	.09	.09	.09
33.0000	.09	.09	.09	.09	.09
33.2000	.09	.09	.09	.09	.09
33.4000	.09	.09	.09	.09	.09
33.6000	.09	.09	.09	.09	.09
33.8000	.09	.09	.09	.09	.09
34.0000	.09	.09	.09	.09	.09
34.2000	.09	.09	.09	.09	.09
34.4000	.09	.09	.09	.09	.09
34.6000	.09	.09	.09	.09	.09

TVA-00001772

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
34.8000	.09	.09	.09	.09	.09
35.0000	.09				

TVA-00001773

ICPM HYDROGRAPH...
HYG file =
HYG ID = POND 3 IN
HYG Tag = 100yr

Peak Discharge =	227.14 cfs
Time to Peak =	12.5200 hrs
HYG Volume =	63.018 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
.0000	.00	.00	.00	.00	.00
.2000	.00	.00	.00	.00	.00
.4000	.00	.00	.00	.00	.00
.6000	.00	.00	.00	.00	.00
.8000	.00	.00	.00	.00	.00
1.0000	.00	.00	.00	.00	.00
1.2000	.00	.00	.00	.00	.00
1.4000	.00	.00	.00	.00	.00
1.6000	.00	.00	.00	.00	.00
1.8000	.00	.00	.00	.00	.00
2.0000	.00	.00	.00	.00	.00
2.2000	.00	.00	.00	.00	.00
2.4000	.00	.00	.00	.00	.00
2.6000	.00	.00	.00	.00	.00
2.8000	.00	.00	.00	.00	.00
3.0000	.00	.00	.00	.00	.00
3.2000	.00	.00	.00	.00	.00
3.4000	.00	.00	.00	.00	.00
3.6000	.00	.00	.00	.00	.00
3.8000	.00	.00	.00	.00	.01
4.0000	.02	.03	.04	.05	.06
4.2000	.07	.08	.09	.10	.11
4.4000	.13	.15	.17	.19	.21
4.6000	.23	.25	.27	.29	.31
4.8000	.33	.36	.39	.42	.45
5.0000	.48	.51	.53	.56	.59
5.2000	.62	.65	.68	.71	.74
5.4000	.77	.80	.83	.87	.91
5.6000	.95	.99	1.03	1.07	1.11
5.8000	1.15	1.19	1.23	1.27	1.31
6.0000	1.35	1.39	1.43	1.47	1.51
6.2000	1.55	1.58	1.62	1.66	1.70
6.4000	1.74	1.78	1.82	1.86	1.90

TVA-00001774

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
6.6000	1.94	1.98	2.03	2.08	2.13
6.8000	2.18	2.23	2.28	2.33	2.38
7.0000	2.43	2.48	2.53	2.58	2.62
7.2000	2.67	2.72	2.77	2.82	2.87
7.4000	2.92	2.97	3.02	3.07	3.12
7.6000	3.17	3.22	3.27	3.32	3.37
7.8000	3.42	3.47	3.52	3.57	3.62
8.0000	3.67	3.71	3.76	3.81	3.86
8.2000	3.91	3.96	4.01	4.07	4.13
8.4000	4.19	4.26	4.33	4.40	4.48
8.6000	4.56	4.65	4.73	4.82	4.92
8.8000	5.03	5.14	5.25	5.37	5.50
9.0000	5.63	5.77	5.90	6.04	6.19
9.2000	6.34	6.49	6.65	6.81	6.96
9.4000	7.12	7.28	7.44	7.60	7.76
9.6000	7.91	8.07	8.24	8.41	8.58
9.8000	8.76	8.93	9.12	9.32	9.52
10.0000	9.73	9.95	10.17	10.41	10.66
10.2000	10.92	11.18	11.46	11.75	12.05
10.4000	12.35	12.68	13.02	13.36	13.73
10.6000	14.11	14.49	14.91	15.34	15.80
10.8000	16.27	16.76	17.28	17.81	18.37
11.0000	18.96	19.57	20.22	20.89	21.60
11.2000	22.36	23.16	24.01	24.92	25.89
11.4000	26.93	28.04	29.22	30.49	31.93
11.6000	33.68	35.94	38.97	43.10	48.66
11.8000	56.02	65.67	78.43	103.23	132.82
12.0000	164.18	190.82	198.03	201.70	206.92
12.2000	212.23	216.66	219.68	222.10	223.98
12.4000	225.38	226.34	226.91	227.14	227.07
12.6000	226.73	226.14	225.34	224.35	223.19
12.8000	221.89	220.47	218.94	217.32	215.63
13.0000	213.88	211.90	209.67	207.43	205.20
13.2000	202.95	200.70	198.44	196.18	193.92
13.4000	191.68	189.45	187.23	185.02	182.84
13.6000	178.31	173.36	168.50	163.59	158.56
13.8000	153.42	148.18	142.85	137.47	132.04
14.0000	126.59	121.15	115.74	110.38	105.12
14.2000	99.96	94.94	90.08	85.42	81.85
14.4000	78.63	75.74	73.40	71.66	69.97
14.6000	68.36	66.80	65.31	63.86	62.47
14.8000	61.14	59.85	58.61	57.42	56.27
15.0000	55.16	54.09	53.06	52.07	51.11
15.2000	50.19	49.30	48.44	47.61	46.80
15.4000	46.02	45.27	44.54	43.81	43.13
15.6000	42.47	41.82	41.18	40.55	39.96
15.8000	39.37	38.81	38.26	37.72	37.19

TVA-00001775

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
16.0000	36.67	36.17	35.67	35.19	34.72
16.2000	34.25	33.81	33.37	32.95	32.53
16.4000	32.13	31.75	31.37	31.00	30.66
16.6000	30.32	29.99	29.68	29.37	29.07
16.8000	28.79	28.51	28.23	27.96	27.71
17.0000	27.46	27.22	26.98	26.75	26.53
17.2000	26.31	26.10	25.89	25.70	25.50
17.4000	25.31	25.12	24.94	24.76	24.59
17.6000	24.42	24.25	24.08	23.92	23.76
17.8000	23.60	23.46	23.31	23.16	23.01
18.0000	22.87	22.73	22.59	22.46	22.32
18.2000	22.18	22.05	21.92	21.79	21.66
18.4000	21.53	21.41	21.28	21.16	21.04
18.6000	20.92	20.80	20.68	20.56	20.45
18.8000	20.33	20.21	20.09	19.97	19.85
19.0000	19.73	19.61	19.50	19.40	19.29
19.2000	19.18	19.07	18.96	18.85	18.74
19.4000	18.63	18.52	18.41	18.31	18.20
19.6000	18.09	17.98	17.87	17.76	17.65
19.8000	17.54	17.43	17.32	17.22	17.11
20.0000	17.00	16.89	16.78	16.67	16.56
20.2000	16.45	16.35	16.26	16.16	16.06
20.4000	15.96	15.87	15.78	15.69	15.60
20.6000	15.52	15.44	15.36	15.28	15.21
20.8000	15.15	15.08	15.01	14.95	14.89
21.0000	14.83	14.77	14.71	14.65	14.60
21.2000	14.55	14.50	14.45	14.40	14.35
21.4000	14.31	14.27	14.23	14.19	14.16
21.6000	14.12	14.08	14.04	14.00	13.96
21.8000	13.92	13.89	13.86	13.83	13.80
22.0000	13.77	13.74	13.71	13.68	13.65
22.2000	13.62	13.59	13.56	13.53	13.50
22.4000	13.47	13.44	13.41	13.38	13.35
22.6000	13.32	13.30	13.28	13.26	13.24
22.8000	13.22	13.20	13.18	13.16	13.14
23.0000	13.12	13.10	13.08	13.06	13.04
23.2000	13.02	13.00	12.98	12.96	12.94
23.4000	12.92	12.90	12.87	12.85	12.83
23.6000	12.81	12.79	12.77	12.75	12.73
23.8000	12.71	12.69	12.67	12.65	12.63
24.0000	12.60	12.57	12.51	12.41	12.25
24.2000	12.05	11.80	11.51	11.19	10.86
24.4000	10.50	10.14	9.78	9.41	9.04
24.6000	8.69	8.33	7.98	7.65	7.32
24.8000	6.99	6.69	6.39	6.10	5.82
25.0000	5.56	5.30	5.05	4.81	4.59
25.2000	4.37	4.16	3.96	3.77	3.59

TVA-00001776

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
25.4000	3.41	3.24	3.08	2.93	2.78
25.6000	2.64	2.52	2.39	2.27	2.16
25.8000	2.05	1.95	1.85	1.76	1.67
26.0000	1.58	1.51	1.43	1.36	1.29
26.2000	1.22	1.16	1.10	1.04	.99
26.4000	.94	.89	.84	.80	.76
26.6000	.72	.68	.64	.61	.58
26.8000	.55	.52	.50	.47	.45
27.0000	.43	.41	.39	.37	.35
27.2000	.33	.31	.29	.28	.27
27.4000	.26	.25	.24	.23	.22
27.6000	.21	.20	.19	.18	.17
27.8000	.16	.15	.14	.13	.12
28.0000	.11	.10	.09	.09	.09
28.2000	.09	.09	.09	.09	.09
28.4000	.09	.09	.09	.09	.09
28.6000	.09	.09	.09	.09	.09
28.8000	.09	.09	.09	.09	.09
29.0000	.09	.09	.09	.09	.09
29.2000	.09	.09	.09	.09	.09
29.4000	.09	.09	.09	.09	.09
29.6000	.09	.09	.09	.09	.09
29.8000	.09	.09	.09	.09	.09
30.0000	.09	.09	.09	.09	.09
30.2000	.09	.09	.09	.09	.09
30.4000	.09	.09	.09	.09	.09
30.6000	.09	.09	.09	.09	.09
30.8000	.09	.09	.09	.09	.09
31.0000	.09	.09	.09	.09	.09
31.2000	.09	.09	.09	.09	.09
31.4000	.09	.09	.09	.09	.09
31.6000	.09	.09	.09	.09	.09
31.8000	.09	.09	.09	.09	.09
32.0000	.09	.09	.09	.09	.09
32.2000	.09	.09	.09	.09	.09
32.4000	.09	.09	.09	.09	.09
32.6000	.09	.09	.09	.09	.09
32.8000	.09	.09	.09	.09	.09
33.0000	.09	.09	.09	.09	.09
33.2000	.09	.09	.09	.09	.09
33.4000	.09	.09	.09	.09	.09
33.6000	.09	.09	.09	.09	.09
33.8000	.09	.09	.09	.09	.09
34.0000	.09	.09	.09	.09	.09
34.2000	.09	.09	.09	.09	.09
34.4000	.09	.09	.09	.09	.09
34.6000	.09	.09	.09	.09	.09

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
34.8000	.09	.09	.09	.09	.09
35.0000	.09				

TVA-00001778

ICPM HYDROGRAPH...
HYG file =
HYG ID = POND 3 OUT
HYG Tag = 25yr

Peak Discharge =	200.47 cfs
Time to Peak =	12.5200 hrs
HYG Volume =	49.422 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
.0000	.00	.00	.00	.00	.00
.2000	.00	.00	.00	.00	.00
.4000	.00	.00	.00	.00	.00
.6000	.00	.00	.00	.00	.00
.8000	.00	.00	.00	.00	.00
1.0000	.00	.00	.00	.00	.00
1.2000	.00	.00	.00	.00	.00
1.4000	.00	.00	.00	.00	.00
1.6000	.00	.00	.00	.00	.00
1.8000	.00	.00	.00	.00	.00
2.0000	.00	.00	.00	.00	.00
2.2000	.00	.00	.00	.00	.00
2.4000	.00	.00	.00	.00	.00
2.6000	.00	.00	.00	.00	.00
2.8000	.00	.00	.00	.00	.00
3.0000	.00	.00	.00	.00	.00
3.2000	.00	.00	.00	.00	.00
3.4000	.00	.00	.00	.00	.00
3.6000	.00	.00	.00	.00	.00
3.8000	.00	.00	.00	.00	.00
4.0000	.00	.00	.00	.00	.00
4.2000	.00	.00	.00	.00	.00
4.4000	.00	.00	.00	.00	.01
4.6000	.02	.03	.04	.05	.06
4.8000	.07	.08	.09	.10	.11
5.0000	.12	.13	.14	.16	.18
5.2000	.20	.22	.24	.26	.28
5.4000	.30	.32	.34	.36	.38
5.6000	.40	.42	.44	.46	.48
5.8000	.51	.53	.56	.59	.62
6.0000	.65	.68	.71	.74	.77
6.2000	.80	.83	.86	.89	.92
6.4000	.95	.98	1.01	1.04	1.07

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
6.6000	1.10	1.13	1.16	1.19	1.22
6.8000	1.25	1.28	1.32	1.36	1.40
7.0000	1.44	1.48	1.52	1.56	1.59
7.2000	1.63	1.67	1.71	1.75	1.79
7.4000	1.83	1.87	1.91	1.95	1.99
7.6000	2.03	2.07	2.11	2.15	2.19
7.8000	2.23	2.27	2.31	2.35	2.39
8.0000	2.43	2.47	2.51	2.55	2.59
8.2000	2.62	2.66	2.70	2.74	2.79
8.4000	2.83	2.88	2.93	2.98	3.04
8.6000	3.09	3.14	3.20	3.26	3.32
8.8000	3.38	3.45	3.52	3.59	3.66
9.0000	3.73	3.81	3.89	3.97	4.05
9.2000	4.13	4.22	4.31	4.40	4.49
9.4000	4.58	4.67	4.75	4.84	4.93
9.6000	5.03	5.13	5.23	5.33	5.44
9.8000	5.55	5.66	5.77	5.88	6.01
10.0000	6.14	6.29	6.43	6.58	6.75
10.2000	6.91	7.09	7.26	7.44	7.63
10.4000	7.85	8.06	8.29	8.53	8.77
10.6000	9.03	9.29	9.59	9.89	10.19
10.8000	10.52	10.86	11.21	11.59	11.98
11.0000	12.38	12.81	13.25	13.72	14.20
11.2000	14.72	15.26	15.84	16.45	17.12
11.4000	17.82	18.57	19.38	20.24	21.18
11.6000	22.24	23.53	25.16	27.31	30.20
11.8000	34.09	39.28	46.15	55.21	67.71
12.0000	86.16	111.19	136.26	158.56	175.02
12.2000	184.56	189.47	192.73	195.23	197.19
12.4000	198.64	199.63	200.23	200.47	200.39
12.6000	200.03	199.43	198.62	197.62	196.46
12.8000	195.18	193.75	192.23	190.61	188.93
13.0000	187.17	185.38	183.01	179.67	175.80
13.2000	171.67	167.36	162.90	158.30	153.57
13.4000	148.74	143.79	138.78	133.69	128.56
13.6000	123.40	118.26	113.13	108.06	103.04
13.8000	98.14	93.34	88.83	84.81	81.29
14.0000	78.47	75.94	73.76	71.80	69.97
14.2000	68.24	66.58	64.97	63.43	61.94
14.4000	60.49	59.10	57.75	56.45	55.20
14.6000	54.00	52.84	51.70	50.63	49.59
14.8000	48.59	47.62	46.68	45.78	44.91
15.0000	44.07	43.26	42.48	41.71	40.98
15.2000	40.29	39.61	38.95	38.30	37.70
15.4000	37.10	36.52	35.95	35.39	34.86
15.6000	34.34	33.85	33.36	32.89	32.42
15.8000	31.97	31.52	31.09	30.67	30.25

TVA-00001780

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
16.0000	29.85	29.45	29.06	28.69	28.32
16.2000	27.95	27.60	27.25	26.91	26.58
16.4000	26.26	25.94	25.65	25.35	25.07
16.6000	24.79	24.55	24.28	24.04	23.80
16.8000	23.56	23.32	23.11	22.90	22.68
17.0000	22.49	22.28	22.08	21.89	21.72
17.2000	21.53	21.36	21.19	21.03	20.88
17.4000	20.73	20.58	20.44	20.29	20.15
17.6000	20.01	19.86	19.72	19.59	19.46
17.8000	19.35	19.23	19.11	18.99	18.87
18.0000	18.75	18.63	18.52	18.41	18.31
18.2000	18.20	18.09	17.98	17.87	17.77
18.4000	17.67	17.57	17.47	17.37	17.28
18.6000	17.18	17.08	16.98	16.88	16.78
18.8000	16.68	16.58	16.49	16.40	16.31
19.0000	16.23	16.14	16.05	15.96	15.87
19.2000	15.78	15.69	15.60	15.51	15.42
19.4000	15.33	15.24	15.16	15.07	14.98
19.6000	14.89	14.80	14.71	14.62	14.53
19.8000	14.44	14.35	14.26	14.17	14.09
20.0000	14.00	13.91	13.82	13.73	13.64
20.2000	13.55	13.46	13.38	13.30	13.22
20.4000	13.14	13.07	12.99	12.91	12.84
20.6000	12.77	12.70	12.63	12.56	12.50
20.8000	12.44	12.38	12.32	12.26	12.21
21.0000	12.16	12.11	12.06	12.02	11.98
21.2000	11.94	11.90	11.86	11.82	11.78
21.4000	11.74	11.69	11.65	11.62	11.59
21.6000	11.56	11.53	11.50	11.47	11.44
21.8000	11.41	11.38	11.35	11.32	11.29
22.0000	11.26	11.23	11.21	11.19	11.17
22.2000	11.15	11.13	11.11	11.09	11.07
22.4000	11.05	11.03	11.02	11.00	10.98
22.6000	10.96	10.94	10.92	10.90	10.88
22.8000	10.86	10.84	10.82	10.80	10.78
23.0000	10.76	10.74	10.72	10.70	10.68
23.2000	10.66	10.64	10.62	10.60	10.58
23.4000	10.56	10.54	10.52	10.50	10.48
23.6000	10.46	10.44	10.42	10.40	10.38
23.8000	10.36	10.34	10.32	10.30	10.28
24.0000	10.26	10.24	10.21	10.17	10.10
24.2000	9.99	9.86	9.68	9.46	9.22
24.4000	8.96	8.69	8.40	8.10	7.81
24.6000	7.51	7.22	6.93	6.65	6.37
24.8000	6.11	5.85	5.59	5.33	5.08
25.0000	4.84	4.64	4.42	4.22	4.01
25.2000	3.81	3.63	3.47	3.31	3.15

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HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
25.4000	2.99	2.84	2.69	2.57	2.45
25.6000	2.33	2.21	2.10	2.00	1.90
25.8000	1.80	1.71	1.63	1.56	1.48
26.0000	1.40	1.33	1.26	1.19	1.13
26.2000	1.07	1.01	.96	.91	.85
26.4000	.81	.77	.73	.69	.65
26.6000	.62	.59	.56	.53	.51
26.8000	.48	.46	.44	.42	.40
27.0000	.38	.36	.34	.32	.30
27.2000	.29	.28	.27	.26	.25
27.4000	.24	.23	.22	.21	.20
27.6000	.19	.18	.17	.16	.15
27.8000	.14	.13	.12	.11	.10
28.0000	.10	.10	.10	.10	.10
28.2000	.10	.10	.10	.10	.10
28.4000	.10	.10	.10	.10	.10
28.6000	.10	.10	.10	.10	.10
28.8000	.10	.10	.10	.10	.10
29.0000	.10	.10	.10	.10	.10
29.2000	.10	.10	.10	.10	.10
29.4000	.10	.10	.10	.10	.10
29.6000	.10	.10	.10	.10	.10
29.8000	.10	.10	.10	.10	.10
30.0000	.10	.10	.10	.10	.10
30.2000	.10	.10	.10	.10	.10
30.4000	.10	.10	.10	.10	.10
30.6000	.10	.10	.10	.10	.10
30.8000	.10	.10	.10	.10	.10
31.0000	.10	.10	.10	.10	.10
31.2000	.10	.10	.10	.10	.10
31.4000	.10	.10	.10	.10	.10
31.6000	.10	.10	.10	.10	.10
31.8000	.10	.10	.10	.10	.10
32.0000	.10	.10	.10	.10	.10
32.2000	.10	.10	.10	.10	.10
32.4000	.10	.10	.10	.10	.10
32.6000	.10	.10	.10	.10	.10
32.8000	.10	.10	.10	.10	.10
33.0000	.10	.10	.10	.10	.10
33.2000	.10	.10	.10	.10	.10
33.4000	.10	.10	.10	.10	.10
33.6000	.10	.10	.10	.10	.10
33.8000	.10	.10	.10	.10	.10
34.0000	.10	.10	.10	.10	.10
34.2000	.10	.10	.10	.10	.10
34.4000	.10	.10	.10	.10	.10
34.6000	.10	.10	.10	.10	.10

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
34.8000	.10	.10	.10	.10	.10
35.0000	.10				

ICPM HYDROGRAPH...
HYG file =
HYG ID = POND 3 OUT
HYG Tag = 100yr

Peak Discharge =	226.84 cfs
Time to Peak =	12.6000 hrs
HYG Volume =	63.029 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
.0000	.00	.00	.00	.00	.00
.2000	.00	.00	.00	.00	.00
.4000	.00	.00	.00	.00	.00
.6000	.00	.00	.00	.00	.00
.8000	.00	.00	.00	.00	.00
1.0000	.00	.00	.00	.00	.00
1.2000	.00	.00	.00	.00	.00
1.4000	.00	.00	.00	.00	.00
1.6000	.00	.00	.00	.00	.00
1.8000	.00	.00	.00	.00	.00
2.0000	.00	.00	.00	.00	.00
2.2000	.00	.00	.00	.00	.00
2.4000	.00	.00	.00	.00	.00
2.6000	.00	.00	.00	.00	.00
2.8000	.00	.00	.00	.00	.00
3.0000	.00	.00	.00	.00	.00
3.2000	.00	.00	.00	.00	.00
3.4000	.00	.00	.00	.00	.00
3.6000	.00	.00	.00	.00	.00
3.8000	.00	.00	.00	.00	.00
4.0000	.01	.02	.03	.04	.05
4.2000	.06	.07	.08	.09	.10
4.4000	.11	.13	.15	.17	.19
4.6000	.21	.23	.25	.27	.29
4.8000	.31	.33	.35	.38	.41
5.0000	.44	.47	.50	.52	.55
5.2000	.58	.61	.64	.67	.70
5.4000	.73	.76	.79	.82	.85
5.6000	.89	.93	.97	1.01	1.05
5.8000	1.09	1.13	1.17	1.21	1.25
6.0000	1.29	1.33	1.37	1.41	1.45
6.2000	1.49	1.53	1.57	1.60	1.64
6.4000	1.68	1.72	1.76	1.80	1.84

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
6.6000	1.88	1.92	1.97	2.01	2.06
6.8000	2.11	2.16	2.21	2.26	2.31
7.0000	2.36	2.41	2.46	2.51	2.56
7.2000	2.61	2.65	2.70	2.75	2.80
7.4000	2.85	2.90	2.95	3.00	3.05
7.6000	3.10	3.15	3.20	3.25	3.30
7.8000	3.35	3.40	3.45	3.50	3.55
8.0000	3.60	3.65	3.69	3.74	3.79
8.2000	3.84	3.89	3.94	3.99	4.04
8.4000	4.10	4.16	4.22	4.29	4.36
8.6000	4.44	4.52	4.60	4.69	4.77
8.8000	4.87	4.97	5.08	5.19	5.31
9.0000	5.43	5.56	5.69	5.82	5.97
9.2000	6.12	6.27	6.41	6.56	6.72
9.4000	6.87	7.03	7.19	7.35	7.51
9.6000	7.67	7.83	7.99	8.16	8.33
9.8000	8.50	8.66	8.85	9.03	9.21
10.0000	9.40	9.62	9.84	10.06	10.28
10.2000	10.53	10.79	11.03	11.31	11.60
10.4000	11.88	12.19	12.52	12.85	13.19
10.6000	13.55	13.92	14.30	14.71	15.14
10.8000	15.58	16.05	16.52	17.03	17.55
11.0000	18.11	18.68	19.29	19.91	20.57
11.2000	21.26	21.99	22.78	23.60	24.49
11.4000	25.43	26.44	27.51	28.66	29.90
11.6000	31.32	33.03	35.19	38.05	41.89
11.8000	47.01	53.80	62.75	76.51	98.99
12.0000	126.55	154.92	176.90	189.69	197.84
12.2000	204.38	209.99	214.56	218.09	220.84
12.4000	222.96	224.57	225.71	226.44	226.78
12.6000	226.84	226.62	226.13	225.41	224.50
12.8000	223.41	222.16	220.81	219.32	217.74
13.0000	216.10	214.32	212.37	210.23	208.04
13.2000	205.85	203.62	201.37	199.13	196.86
13.4000	194.62	192.37	190.14	187.91	185.70
13.6000	182.84	178.97	174.49	169.78	164.93
13.8000	159.95	154.84	149.64	144.36	139.00
14.0000	133.60	128.18	122.75	117.35	112.01
14.2000	106.74	101.56	96.52	91.63	87.18
14.4000	83.30	80.05	77.37	75.01	72.95
14.6000	71.10	69.38	67.75	66.21	64.72
14.8000	63.30	61.93	60.61	59.34	58.13
15.0000	56.95	55.82	54.72	53.67	52.64
15.2000	51.67	50.73	49.82	48.92	48.08
15.4000	47.27	46.48	45.69	44.95	44.23
15.6000	43.53	42.85	42.19	41.54	40.91
15.8000	40.31	39.70	39.13	38.56	38.02

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HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
16.0000	37.48	36.96	36.44	35.95	35.46
16.2000	34.98	34.51	34.06	33.61	33.18
16.4000	32.77	32.36	31.97	31.58	31.21
16.6000	30.86	30.51	30.17	29.86	29.54
16.8000	29.24	28.94	28.66	28.40	28.12
17.0000	27.85	27.62	27.38	27.14	26.89
17.2000	26.66	26.45	26.24	26.02	25.82
17.4000	25.62	25.42	25.24	25.06	24.88
17.6000	24.70	24.53	24.36	24.18	24.01
17.8000	23.85	23.70	23.56	23.41	23.26
18.0000	23.11	22.96	22.82	22.68	22.55
18.2000	22.41	22.26	22.13	21.99	21.86
18.4000	21.73	21.61	21.48	21.36	21.24
18.6000	21.12	21.00	20.88	20.76	20.64
18.8000	20.52	20.41	20.29	20.17	20.05
19.0000	19.93	19.81	19.69	19.57	19.46
19.2000	19.36	19.25	19.14	19.03	18.92
19.4000	18.81	18.70	18.59	18.48	18.37
19.6000	18.27	18.16	18.05	17.94	17.83
19.8000	17.72	17.61	17.50	17.39	17.29
20.0000	17.18	17.07	16.96	16.85	16.74
20.2000	16.63	16.52	16.42	16.32	16.23
20.4000	16.13	16.03	15.93	15.84	15.75
20.6000	15.66	15.58	15.50	15.42	15.34
20.8000	15.26	15.20	15.13	15.06	14.99
21.0000	14.93	14.87	14.81	14.75	14.69
21.2000	14.64	14.58	14.53	14.48	14.43
21.4000	14.37	14.33	14.29	14.25	14.21
21.6000	14.17	14.14	14.10	14.06	14.02
21.8000	13.98	13.94	13.90	13.87	13.84
22.0000	13.81	13.78	13.75	13.72	13.69
22.2000	13.66	13.63	13.60	13.57	13.54
22.4000	13.51	13.48	13.45	13.42	13.39
22.6000	13.36	13.33	13.31	13.29	13.27
22.8000	13.25	13.23	13.21	13.19	13.17
23.0000	13.15	13.13	13.11	13.09	13.07
23.2000	13.05	13.03	13.01	12.99	12.97
23.4000	12.95	12.93	12.91	12.88	12.86
23.6000	12.84	12.82	12.80	12.78	12.76
23.8000	12.74	12.72	12.70	12.68	12.66
24.0000	12.64	12.61	12.58	12.52	12.43
24.2000	12.30	12.11	11.89	11.64	11.33
24.4000	11.01	10.67	10.32	9.97	9.60
24.6000	9.23	8.88	8.52	8.17	7.84
24.8000	7.50	7.17	6.85	6.56	6.26
25.0000	5.98	5.73	5.46	5.20	4.95
25.2000	4.72	4.51	4.30	4.10	3.89

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
25.4000	3.69	3.51	3.35	3.19	3.02
25.6000	2.87	2.72	2.60	2.47	2.35
25.8000	2.23	2.12	2.02	1.92	1.82
26.0000	1.73	1.64	1.57	1.49	1.41
26.2000	1.34	1.27	1.20	1.14	1.08
26.4000	1.02	.97	.92	.86	.82
26.6000	.78	.74	.70	.66	.62
26.8000	.59	.56	.53	.51	.48
27.0000	.46	.44	.42	.40	.38
27.2000	.36	.34	.32	.30	.29
27.4000	.28	.27	.26	.25	.24
27.6000	.23	.22	.21	.20	.19
27.8000	.18	.17	.16	.15	.14
28.0000	.13	.12	.11	.10	.10
28.2000	.10	.10	.10	.10	.10
28.4000	.10	.10	.10	.10	.10
28.6000	.10	.10	.10	.10	.10
28.8000	.10	.10	.10	.10	.10
29.0000	.10	.10	.10	.10	.10
29.2000	.10	.10	.10	.10	.10
29.4000	.10	.10	.10	.10	.10
29.6000	.10	.10	.10	.10	.10
29.8000	.10	.10	.10	.10	.10
30.0000	.10	.10	.10	.10	.10
30.2000	.10	.10	.10	.10	.10
30.4000	.10	.10	.10	.10	.10
30.6000	.10	.10	.10	.10	.10
30.8000	.10	.10	.10	.10	.10
31.0000	.10	.10	.10	.10	.10
31.2000	.10	.10	.10	.10	.10
31.4000	.10	.10	.10	.10	.10
31.6000	.10	.10	.10	.10	.10
31.8000	.10	.10	.10	.10	.10
32.0000	.10	.10	.10	.10	.10
32.2000	.10	.10	.10	.10	.10
32.4000	.10	.10	.10	.10	.10
32.6000	.10	.10	.10	.10	.10
32.8000	.10	.10	.10	.10	.10
33.0000	.10	.10	.10	.10	.10
33.2000	.10	.10	.10	.10	.10
33.4000	.10	.10	.10	.10	.10
33.6000	.10	.10	.10	.10	.10
33.8000	.10	.10	.10	.10	.10
34.0000	.10	.10	.10	.10	.10
34.2000	.10	.10	.10	.10	.10
34.4000	.10	.10	.10	.10	.10
34.6000	.10	.10	.10	.10	.10

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
34.8000	.10	.10	.10	.10	.10
35.0000	.10				

TIME vs. ELEVATION (ft)

Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
.0000	758.00	758.00	758.00	758.00	758.00
.2000	758.00	758.00	758.00	758.00	758.00
.4000	758.00	758.00	758.00	758.00	758.00
.6000	758.00	758.00	758.00	758.00	758.00
.8000	758.00	758.00	758.00	758.00	758.00
1.0000	758.00	758.00	758.00	758.00	758.00
1.2000	758.00	758.00	758.00	758.00	758.00
1.4000	758.00	758.00	758.00	758.00	758.00
1.6000	758.00	758.00	758.00	758.00	758.00
1.8000	758.00	758.00	758.00	758.00	758.00
2.0000	758.00	758.00	758.00	758.00	758.00
2.2000	758.00	758.00	758.00	758.00	758.00
2.4000	758.00	758.00	758.00	758.00	758.00
2.6000	758.00	758.00	758.00	758.00	758.00
2.8000	758.00	758.00	758.00	758.00	758.00
3.0000	758.00	758.00	758.00	758.00	758.00
3.2000	758.00	758.00	758.00	758.00	758.00
3.4000	758.00	758.00	758.00	758.00	758.00
3.6000	758.00	758.00	758.00	758.00	758.00
3.8000	758.00	758.00	758.00	758.00	758.00
4.0000	758.00	758.00	758.00	758.00	758.00
4.2000	758.00	758.00	758.00	758.00	758.00
4.4000	758.00	758.00	758.00	758.00	758.00
4.6000	758.00	758.00	758.00	758.00	758.00
4.8000	758.00	758.00	758.00	758.00	758.00
5.0000	758.00	758.00	758.00	758.00	758.00
5.2000	758.00	758.00	758.00	758.00	758.00
5.4000	758.00	758.00	758.00	758.00	758.00
5.6000	758.00	758.00	758.00	758.00	758.00
5.8000	758.00	758.00	758.00	758.00	758.00
6.0000	758.00	758.00	758.00	758.00	758.01
6.2000	758.01	758.01	758.01	758.01	758.01
6.4000	758.01	758.01	758.01	758.01	758.01
6.6000	758.01	758.01	758.01	758.01	758.01
6.8000	758.01	758.01	758.01	758.01	758.01
7.0000	758.01	758.01	758.01	758.01	758.01
7.2000	758.01	758.01	758.01	758.01	758.01
7.4000	758.01	758.01	758.01	758.01	758.01
7.6000	758.01	758.01	758.01	758.01	758.01
7.8000	758.01	758.01	758.01	758.01	758.02
8.0000	758.02	758.02	758.02	758.02	758.02
8.2000	758.02	758.02	758.02	758.02	758.02
8.4000	758.02	758.02	758.02	758.02	758.02
8.6000	758.02	758.02	758.02	758.02	758.02
8.8000	758.02	758.02	758.02	758.02	758.02

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TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0400 hrs Time on left represents time for first value in each row.				
9.0000	758.02	758.02	758.02	758.03	758.03
9.2000	758.03	758.03	758.03	758.03	758.03
9.4000	758.03	758.03	758.03	758.03	758.03
9.6000	758.03	758.03	758.03	758.03	758.03
9.8000	758.04	758.04	758.04	758.04	758.04
10.0000	758.04	758.04	758.04	758.04	758.04
10.2000	758.04	758.05	758.05	758.05	758.05
10.4000	758.05	758.05	758.05	758.05	758.06
10.6000	758.06	758.06	758.06	758.06	758.07
10.8000	758.07	758.07	758.07	758.08	758.08
11.0000	758.08	758.08	758.09	758.09	758.09
11.2000	758.10	758.10	758.10	758.11	758.11
11.4000	758.12	758.12	758.13	758.13	758.14
11.6000	758.15	758.16	758.17	758.19	758.22
11.8000	758.25	758.30	758.36	758.44	758.53
12.0000	758.64	758.74	758.85	758.94	759.03
12.2000	759.09	759.15	759.20	759.23	759.26
12.4000	759.27	759.28	759.29	759.29	759.28
12.6000	759.27	759.26	759.24	759.22	759.20
12.8000	759.18	759.15	759.13	759.10	759.07
13.0000	759.04	759.01	758.97	758.94	758.91
13.2000	758.88	758.85	758.82	758.79	758.76
13.4000	758.73	758.70	758.68	758.65	758.63
13.6000	758.61	758.59	758.57	758.55	758.54
13.8000	758.52	758.51	758.49	758.48	758.47
14.0000	758.46	758.45	758.44	758.42	758.41
14.2000	758.40	758.39	758.39	758.38	758.37
14.4000	758.36	758.35	758.34	758.34	758.33
14.6000	758.32	758.31	758.31	758.30	758.30
14.8000	758.29	758.28	758.28	758.27	758.27
15.0000	758.26	758.26	758.25	758.25	758.25
15.2000	758.24	758.24	758.23	758.23	758.23
15.4000	758.22	758.22	758.22	758.21	758.21
15.6000	758.21	758.20	758.20	758.20	758.20
15.8000	758.19	758.19	758.19	758.19	758.18
16.0000	758.18	758.18	758.18	758.17	758.17
16.2000	758.17	758.17	758.16	758.16	758.16
16.4000	758.16	758.16	758.16	758.15	758.15
16.6000	758.15	758.15	758.15	758.15	758.14
16.8000	758.14	758.14	758.14	758.14	758.14
17.0000	758.14	758.14	758.13	758.13	758.13
17.2000	758.13	758.13	758.13	758.13	758.13
17.4000	758.13	758.13	758.12	758.12	758.12
17.6000	758.12	758.12	758.12	758.12	758.12
17.8000	758.12	758.12	758.12	758.12	758.12
18.0000	758.11	758.11	758.11	758.11	758.11

TVA-00001790

TIME vs. ELEVATION (ft)

Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
18.2000	758.11	758.11	758.11	758.11	758.11
18.4000	758.11	758.11	758.11	758.11	758.11
18.6000	758.10	758.10	758.10	758.10	758.10
18.8000	758.10	758.10	758.10	758.10	758.10
19.0000	758.10	758.10	758.10	758.10	758.10
19.2000	758.10	758.10	758.10	758.09	758.09
19.4000	758.09	758.09	758.09	758.09	758.09
19.6000	758.09	758.09	758.09	758.09	758.09
19.8000	758.09	758.09	758.09	758.09	758.09
20.0000	758.09	758.08	758.08	758.08	758.08
20.2000	758.08	758.08	758.08	758.08	758.08
20.4000	758.08	758.08	758.08	758.08	758.08
20.6000	758.08	758.08	758.08	758.08	758.08
20.8000	758.08	758.08	758.08	758.08	758.07
21.0000	758.07	758.07	758.07	758.07	758.07
21.2000	758.07	758.07	758.07	758.07	758.07
21.4000	758.07	758.07	758.07	758.07	758.07
21.6000	758.07	758.07	758.07	758.07	758.07
21.8000	758.07	758.07	758.07	758.07	758.07
22.0000	758.07	758.07	758.07	758.07	758.07
22.2000	758.07	758.07	758.07	758.07	758.07
22.4000	758.07	758.07	758.07	758.07	758.07
22.6000	758.07	758.07	758.07	758.07	758.07
22.8000	758.07	758.07	758.07	758.07	758.07
23.0000	758.07	758.07	758.07	758.07	758.07
23.2000	758.07	758.07	758.07	758.07	758.07
23.4000	758.06	758.06	758.06	758.06	758.06
23.6000	758.06	758.06	758.06	758.06	758.06
23.8000	758.06	758.06	758.06	758.06	758.06
24.0000	758.06	758.06	758.06	758.06	758.06
24.2000	758.06	758.06	758.06	758.06	758.05
24.4000	758.05	758.05	758.05	758.05	758.05
24.6000	758.04	758.04	758.04	758.04	758.04
24.8000	758.04	758.03	758.03	758.03	758.03
25.0000	758.03	758.03	758.03	758.02	758.02
25.2000	758.02	758.02	758.02	758.02	758.02
25.4000	758.02	758.02	758.02	758.01	758.01
25.6000	758.01	758.01	758.01	758.01	758.01
25.8000	758.01	758.01	758.01	758.01	758.01
26.0000	758.01	758.01	758.01	758.01	758.01
26.2000	758.01	758.01	758.01	758.01	758.00
26.4000	758.00	758.00	758.00	758.00	758.00
26.6000	758.00	758.00	758.00	758.00	758.00
26.8000	758.00	758.00	758.00	758.00	758.00
27.0000	758.00	758.00	758.00	758.00	758.00
27.2000	758.00	758.00	758.00	758.00	758.00

TVA-00001791

TIME vs. ELEVATION (ft)

Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
27.4000	758.00	758.00	758.00	758.00	758.00
27.6000	758.00	758.00	758.00	758.00	758.00
27.8000	758.00	758.00	758.00	758.00	758.00
28.0000	758.00	758.00	758.00	758.00	758.00
28.2000	758.00	758.00	758.00	758.00	758.00
28.4000	758.00	758.00	758.00	758.00	758.00
28.6000	758.00	758.00	758.00	758.00	758.00
28.8000	758.00	758.00	758.00	758.00	758.00
29.0000	758.00	758.00	758.00	758.00	758.00
29.2000	758.00	758.00	758.00	758.00	758.00
29.4000	758.00	758.00	758.00	758.00	758.00
29.6000	758.00	758.00	758.00	758.00	758.00
29.8000	758.00	758.00	758.00	758.00	758.00
30.0000	758.00	758.00	758.00	758.00	758.00
30.2000	758.00	758.00	758.00	758.00	758.00
30.4000	758.00	758.00	758.00	758.00	758.00
30.6000	758.00	758.00	758.00	758.00	758.00
30.8000	758.00	758.00	758.00	758.00	758.00
31.0000	758.00	758.00	758.00	758.00	758.00
31.2000	758.00	758.00	758.00	758.00	758.00
31.4000	758.00	758.00	758.00	758.00	758.00
31.6000	758.00	758.00	758.00	758.00	758.00
31.8000	758.00	758.00	758.00	758.00	758.00
32.0000	758.00	758.00	758.00	758.00	758.00
32.2000	758.00	758.00	758.00	758.00	758.00
32.4000	758.00	758.00	758.00	758.00	758.00
32.6000	758.00	758.00	758.00	758.00	758.00
32.8000	758.00	758.00	758.00	758.00	758.00
33.0000	758.00	758.00	758.00	758.00	758.00
33.2000	758.00	758.00	758.00	758.00	758.00
33.4000	758.00	758.00	758.00	758.00	758.00
33.6000	758.00	758.00	758.00	758.00	758.00
33.8000	758.00	758.00	758.00	758.00	758.00
34.0000	758.00	758.00	758.00	758.00	758.00
34.2000	758.00	758.00	758.00	758.00	758.00
34.4000	758.00	758.00	758.00	758.00	758.00
34.6000	758.00	758.00	758.00	758.00	758.00
34.8000	758.00	758.00	758.00	758.00	758.00
35.0000	758.00				

TVA-00001792

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0400 hrs Time on left represents time for first value in each row.				
.0000	758.00	758.00	758.00	758.00	758.00
.2000	758.00	758.00	758.00	758.00	758.00
.4000	758.00	758.00	758.00	758.00	758.00
.6000	758.00	758.00	758.00	758.00	758.00
.8000	758.00	758.00	758.00	758.00	758.00
1.0000	758.00	758.00	758.00	758.00	758.00
1.2000	758.00	758.00	758.00	758.00	758.00
1.4000	758.00	758.00	758.00	758.00	758.00
1.6000	758.00	758.00	758.00	758.00	758.00
1.8000	758.00	758.00	758.00	758.00	758.00
2.0000	758.00	758.00	758.00	758.00	758.00
2.2000	758.00	758.00	758.00	758.00	758.00
2.4000	758.00	758.00	758.00	758.00	758.00
2.6000	758.00	758.00	758.00	758.00	758.00
2.8000	758.00	758.00	758.00	758.00	758.00
3.0000	758.00	758.00	758.00	758.00	758.00
3.2000	758.00	758.00	758.00	758.00	758.00
3.4000	758.00	758.00	758.00	758.00	758.00
3.6000	758.00	758.00	758.00	758.00	758.00
3.8000	758.00	758.00	758.00	758.00	758.00
4.0000	758.00	758.00	758.00	758.00	758.00
4.2000	758.00	758.00	758.00	758.00	758.00
4.4000	758.00	758.00	758.00	758.00	758.00
4.6000	758.00	758.00	758.00	758.00	758.00
4.8000	758.00	758.00	758.00	758.00	758.00
5.0000	758.00	758.00	758.00	758.00	758.00
5.2000	758.00	758.00	758.00	758.00	758.00
5.4000	758.00	758.00	758.01	758.01	758.01
5.6000	758.01	758.01	758.01	758.01	758.01
5.8000	758.01	758.01	758.01	758.01	758.01
6.0000	758.01	758.01	758.01	758.01	758.01
6.2000	758.01	758.01	758.01	758.01	758.01
6.4000	758.01	758.01	758.01	758.01	758.01
6.6000	758.01	758.01	758.01	758.01	758.01
6.8000	758.01	758.01	758.01	758.01	758.01
7.0000	758.02	758.02	758.02	758.02	758.02
7.2000	758.02	758.02	758.02	758.02	758.02
7.4000	758.02	758.02	758.02	758.02	758.02
7.6000	758.02	758.02	758.02	758.02	758.02
7.8000	758.02	758.02	758.02	758.02	758.02
8.0000	758.02	758.02	758.02	758.02	758.02
8.2000	758.02	758.02	758.02	758.03	758.03
8.4000	758.03	758.03	758.03	758.03	758.03
8.6000	758.03	758.03	758.03	758.03	758.03
8.8000	758.03	758.03	758.03	758.03	758.03

TVA-00001793

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0400 hrs Time on left represents time for first value in each row.				
9.0000	758.03	758.04	758.04	758.04	758.04
9.2000	758.04	758.04	758.04	758.04	758.04
9.4000	758.04	758.04	758.05	758.05	758.05
9.6000	758.05	758.05	758.05	758.05	758.05
9.8000	758.05	758.06	758.06	758.06	758.06
10.0000	758.06	758.06	758.06	758.06	758.07
10.2000	758.07	758.07	758.07	758.07	758.07
10.4000	758.08	758.08	758.08	758.08	758.08
10.6000	758.09	758.09	758.09	758.09	758.10
10.8000	758.10	758.10	758.11	758.11	758.11
11.0000	758.12	758.12	758.12	758.13	758.13
11.2000	758.14	758.14	758.15	758.15	758.16
11.4000	758.17	758.17	758.18	758.19	758.20
11.6000	758.21	758.22	758.24	758.27	758.30
11.8000	758.35	758.40	758.48	758.58	758.70
12.0000	758.83	758.96	759.10	759.23	759.34
12.2000	759.44	759.52	759.58	759.64	759.68
12.4000	759.71	759.73	759.74	759.75	759.75
12.6000	759.75	759.74	759.73	759.71	759.69
12.8000	759.67	759.64	759.61	759.58	759.55
13.0000	759.52	759.48	759.45	759.41	759.38
13.2000	759.34	759.31	759.27	759.23	759.19
13.4000	759.16	759.12	759.08	759.04	759.01
13.6000	758.97	758.93	758.90	758.86	758.83
13.8000	758.79	758.76	758.73	758.70	758.68
14.0000	758.65	758.63	758.61	758.58	758.56
14.2000	758.55	758.53	758.51	758.50	758.49
14.4000	758.48	758.46	758.45	758.44	758.43
14.6000	758.42	758.41	758.40	758.39	758.38
14.8000	758.38	758.37	758.36	758.35	758.35
15.0000	758.34	758.33	758.33	758.32	758.31
15.2000	758.31	758.30	758.30	758.29	758.29
15.4000	758.28	758.28	758.27	758.27	758.27
15.6000	758.26	758.26	758.25	758.25	758.25
15.8000	758.24	758.24	758.24	758.23	758.23
16.0000	758.23	758.22	758.22	758.22	758.21
16.2000	758.21	758.21	758.21	758.20	758.20
16.4000	758.20	758.20	758.19	758.19	758.19
16.6000	758.19	758.18	758.18	758.18	758.18
16.8000	758.18	758.18	758.17	758.17	758.17
17.0000	758.17	758.17	758.17	758.16	758.16
17.2000	758.16	758.16	758.16	758.16	758.16
17.4000	758.16	758.15	758.15	758.15	758.15
17.6000	758.15	758.15	758.15	758.15	758.15
17.8000	758.15	758.14	758.14	758.14	758.14
18.0000	758.14	758.14	758.14	758.14	758.14

TVA-00001794

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0400 hrs Time on left represents time for first value in each row.				
18.2000	758.14	758.14	758.14	758.13	758.13
18.4000	758.13	758.13	758.13	758.13	758.13
18.6000	758.13	758.13	758.13	758.13	758.13
18.8000	758.13	758.12	758.12	758.12	758.12
19.0000	758.12	758.12	758.12	758.12	758.12
19.2000	758.12	758.12	758.12	758.12	758.12
19.4000	758.11	758.11	758.11	758.11	758.11
19.6000	758.11	758.11	758.11	758.11	758.11
19.8000	758.11	758.11	758.11	758.11	758.11
20.0000	758.10	758.10	758.10	758.10	758.10
20.2000	758.10	758.10	758.10	758.10	758.10
20.4000	758.10	758.10	758.10	758.10	758.10
20.6000	758.10	758.10	758.09	758.09	758.09
20.8000	758.09	758.09	758.09	758.09	758.09
21.0000	758.09	758.09	758.09	758.09	758.09
21.2000	758.09	758.09	758.09	758.09	758.09
21.4000	758.09	758.09	758.09	758.09	758.09
21.6000	758.09	758.09	758.09	758.09	758.09
21.8000	758.09	758.09	758.09	758.09	758.09
22.0000	758.08	758.08	758.08	758.08	758.08
22.2000	758.08	758.08	758.08	758.08	758.08
22.4000	758.08	758.08	758.08	758.08	758.08
22.6000	758.08	758.08	758.08	758.08	758.08
22.8000	758.08	758.08	758.08	758.08	758.08
23.0000	758.08	758.08	758.08	758.08	758.08
23.2000	758.08	758.08	758.08	758.08	758.08
23.4000	758.08	758.08	758.08	758.08	758.08
23.6000	758.08	758.08	758.08	758.08	758.08
23.8000	758.08	758.08	758.08	758.08	758.08
24.0000	758.08	758.08	758.08	758.08	758.08
24.2000	758.07	758.07	758.07	758.07	758.07
24.4000	758.06	758.06	758.06	758.06	758.06
24.6000	758.05	758.05	758.05	758.05	758.05
24.8000	758.04	758.04	758.04	758.04	758.04
25.0000	758.03	758.03	758.03	758.03	758.03
25.2000	758.03	758.03	758.02	758.02	758.02
25.4000	758.02	758.02	758.02	758.02	758.02
25.6000	758.02	758.02	758.01	758.01	758.01
25.8000	758.01	758.01	758.01	758.01	758.01
26.0000	758.01	758.01	758.01	758.01	758.01
26.2000	758.01	758.01	758.01	758.01	758.01
26.4000	758.01	758.01	758.01	758.00	758.00
26.6000	758.00	758.00	758.00	758.00	758.00
26.8000	758.00	758.00	758.00	758.00	758.00
27.0000	758.00	758.00	758.00	758.00	758.00
27.2000	758.00	758.00	758.00	758.00	758.00

TVA-00001795

TIME vs. ELEVATION (ft)

Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
27.4000	758.00	758.00	758.00	758.00	758.00
27.6000	758.00	758.00	758.00	758.00	758.00
27.8000	758.00	758.00	758.00	758.00	758.00
28.0000	758.00	758.00	758.00	758.00	758.00
28.2000	758.00	758.00	758.00	758.00	758.00
28.4000	758.00	758.00	758.00	758.00	758.00
28.6000	758.00	758.00	758.00	758.00	758.00
28.8000	758.00	758.00	758.00	758.00	758.00
29.0000	758.00	758.00	758.00	758.00	758.00
29.2000	758.00	758.00	758.00	758.00	758.00
29.4000	758.00	758.00	758.00	758.00	758.00
29.6000	758.00	758.00	758.00	758.00	758.00
29.8000	758.00	758.00	758.00	758.00	758.00
30.0000	758.00	758.00	758.00	758.00	758.00
30.2000	758.00	758.00	758.00	758.00	758.00
30.4000	758.00	758.00	758.00	758.00	758.00
30.6000	758.00	758.00	758.00	758.00	758.00
30.8000	758.00	758.00	758.00	758.00	758.00
31.0000	758.00	758.00	758.00	758.00	758.00
31.2000	758.00	758.00	758.00	758.00	758.00
31.4000	758.00	758.00	758.00	758.00	758.00
31.6000	758.00	758.00	758.00	758.00	758.00
31.8000	758.00	758.00	758.00	758.00	758.00
32.0000	758.00	758.00	758.00	758.00	758.00
32.2000	758.00	758.00	758.00	758.00	758.00
32.4000	758.00	758.00	758.00	758.00	758.00
32.6000	758.00	758.00	758.00	758.00	758.00
32.8000	758.00	758.00	758.00	758.00	758.00
33.0000	758.00	758.00	758.00	758.00	758.00
33.2000	758.00	758.00	758.00	758.00	758.00
33.4000	758.00	758.00	758.00	758.00	758.00
33.6000	758.00	758.00	758.00	758.00	758.00
33.8000	758.00	758.00	758.00	758.00	758.00
34.0000	758.00	758.00	758.00	758.00	758.00
34.2000	758.00	758.00	758.00	758.00	758.00
34.4000	758.00	758.00	758.00	758.00	758.00
34.6000	758.00	758.00	758.00	758.00	758.00
34.8000	758.00	758.00	758.00	758.00	758.00
35.0000	758.00				

TVA-00001796

TIME vs. ELEVATION (ft)

Output Time increment = .0400 hrs
Time on left represents time for first value in each row.

Time hrs					
.0000	757.00	757.00	757.00	757.00	757.00
.2000	757.00	757.00	757.00	757.00	757.00
.4000	757.00	757.00	757.00	757.00	757.00
.6000	757.00	757.00	757.00	757.00	757.00
.8000	757.00	757.00	757.00	757.00	757.00
1.0000	757.00	757.00	757.00	757.00	757.00
1.2000	757.00	757.00	757.00	757.00	757.00
1.4000	757.00	757.00	757.00	757.00	757.00
1.6000	757.00	757.00	757.00	757.00	757.00
1.8000	757.00	757.00	757.00	757.00	757.00
2.0000	757.00	757.00	757.00	757.00	757.00
2.2000	757.00	757.00	757.00	757.00	757.00
2.4000	757.00	757.00	757.00	757.00	757.00
2.6000	757.00	757.00	757.00	757.00	757.00
2.8000	757.00	757.00	757.00	757.00	757.00
3.0000	757.00	757.00	757.00	757.00	757.00
3.2000	757.00	757.00	757.00	757.00	757.00
3.4000	757.00	757.00	757.00	757.00	757.00
3.6000	757.00	757.00	757.00	757.00	757.00
3.8000	757.00	757.00	757.00	757.00	757.00
4.0000	757.00	757.00	757.00	757.00	757.00
4.2000	757.00	757.00	757.00	757.00	757.00
4.4000	757.00	757.00	757.00	757.00	757.00
4.6000	757.00	757.00	757.00	757.00	757.00
4.8000	757.00	757.00	757.00	757.00	757.00
5.0000	757.00	757.00	757.00	757.00	757.00
5.2000	757.00	757.00	757.00	757.00	757.00
5.4000	757.00	757.00	757.00	757.00	757.00
5.6000	757.00	757.00	757.00	757.00	757.00
5.8000	757.00	757.00	757.00	757.00	757.00
6.0000	757.00	757.00	757.00	757.00	757.00
6.2000	757.00	757.01	757.01	757.01	757.01
6.4000	757.01	757.01	757.01	757.01	757.01
6.6000	757.01	757.01	757.01	757.01	757.01
6.8000	757.01	757.01	757.01	757.01	757.01
7.0000	757.01	757.01	757.01	757.01	757.01
7.2000	757.01	757.01	757.01	757.01	757.01
7.4000	757.01	757.01	757.01	757.01	757.01
7.6000	757.01	757.01	757.01	757.01	757.01
7.8000	757.01	757.01	757.01	757.01	757.01
8.0000	757.02	757.02	757.02	757.02	757.02
8.2000	757.02	757.02	757.02	757.02	757.02
8.4000	757.02	757.02	757.02	757.02	757.02
8.6000	757.02	757.02	757.02	757.02	757.02
8.8000	757.02	757.02	757.02	757.02	757.02

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0400 hrs Time on left represents time for first value in each row.				
9.0000	757.02	757.02	757.02	757.02	757.03
9.2000	757.03	757.03	757.03	757.03	757.03
9.4000	757.03	757.03	757.03	757.03	757.03
9.6000	757.03	757.03	757.03	757.03	757.03
9.8000	757.03	757.03	757.04	757.04	757.04
10.0000	757.04	757.04	757.04	757.04	757.04
10.2000	757.04	757.04	757.04	757.05	757.05
10.4000	757.05	757.05	757.05	757.05	757.05
10.6000	757.06	757.06	757.06	757.06	757.06
10.8000	757.06	757.07	757.07	757.07	757.07
11.0000	757.08	757.08	757.08	757.08	757.09
11.2000	757.09	757.09	757.10	757.10	757.11
11.4000	757.11	757.11	757.12	757.12	757.13
11.6000	757.14	757.15	757.16	757.17	757.19
11.8000	757.21	757.24	757.28	757.34	757.42
12.0000	757.52	757.60	757.69	757.76	757.82
12.2000	757.85	757.87	757.88	757.88	757.89
12.4000	757.90	757.90	757.90	757.90	757.90
12.6000	757.90	757.90	757.90	757.89	757.89
12.8000	757.88	757.88	757.87	757.87	757.86
13.0000	757.86	757.85	757.84	757.83	757.82
13.2000	757.81	757.79	757.78	757.76	757.74
13.4000	757.73	757.71	757.69	757.68	757.66
13.6000	757.64	757.63	757.61	757.59	757.57
13.8000	757.56	757.54	757.53	757.51	757.50
14.0000	757.48	757.47	757.45	757.44	757.43
14.2000	757.42	757.41	757.40	757.39	757.38
14.4000	757.37	757.36	757.36	757.35	757.34
14.6000	757.33	757.33	757.32	757.31	757.31
14.8000	757.30	757.29	757.29	757.28	757.28
15.0000	757.27	757.27	757.26	757.26	757.25
15.2000	757.25	757.24	757.24	757.24	757.23
15.4000	757.23	757.23	757.22	757.22	757.21
15.6000	757.21	757.21	757.21	757.20	757.20
15.8000	757.20	757.19	757.19	757.19	757.19
16.0000	757.18	757.18	757.18	757.18	757.17
16.2000	757.17	757.17	757.17	757.17	757.16
16.4000	757.16	757.16	757.16	757.16	757.15
16.6000	757.15	757.15	757.15	757.15	757.15
16.8000	757.15	757.14	757.14	757.14	757.14
17.0000	757.14	757.14	757.14	757.13	757.13
17.2000	757.13	757.13	757.13	757.13	757.13
17.4000	757.13	757.13	757.13	757.13	757.12
17.6000	757.12	757.12	757.12	757.12	757.12
17.8000	757.12	757.12	757.12	757.12	757.12
18.0000	757.12	757.11	757.11	757.11	757.11

TVA-00001798

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0400 hrs Time on left represents time for first value in each row.				
18.2000	757.11	757.11	757.11	757.11	757.11
18.4000	757.11	757.11	757.11	757.11	757.11
18.6000	757.11	757.11	757.10	757.10	757.10
18.8000	757.10	757.10	757.10	757.10	757.10
19.0000	757.10	757.10	757.10	757.10	757.10
19.2000	757.10	757.10	757.10	757.10	757.10
19.4000	757.09	757.09	757.09	757.09	757.09
19.6000	757.09	757.09	757.09	757.09	757.09
19.8000	757.09	757.09	757.09	757.09	757.09
20.0000	757.09	757.09	757.09	757.08	757.08
20.2000	757.08	757.08	757.08	757.08	757.08
20.4000	757.08	757.08	757.08	757.08	757.08
20.6000	757.08	757.08	757.08	757.08	757.08
20.8000	757.08	757.08	757.08	757.08	757.08
21.0000	757.08	757.07	757.07	757.07	757.07
21.2000	757.07	757.07	757.07	757.07	757.07
21.4000	757.07	757.07	757.07	757.07	757.07
21.6000	757.07	757.07	757.07	757.07	757.07
21.8000	757.07	757.07	757.07	757.07	757.07
22.0000	757.07	757.07	757.07	757.07	757.07
22.2000	757.07	757.07	757.07	757.07	757.07
22.4000	757.07	757.07	757.07	757.07	757.07
22.6000	757.07	757.07	757.07	757.07	757.07
22.8000	757.07	757.07	757.07	757.07	757.07
23.0000	757.07	757.07	757.07	757.07	757.07
23.2000	757.07	757.07	757.07	757.07	757.07
23.4000	757.07	757.06	757.06	757.06	757.06
23.6000	757.06	757.06	757.06	757.06	757.06
23.8000	757.06	757.06	757.06	757.06	757.06
24.0000	757.06	757.06	757.06	757.06	757.06
24.2000	757.06	757.06	757.06	757.06	757.06
24.4000	757.06	757.05	757.05	757.05	757.05
24.6000	757.05	757.04	757.04	757.04	757.04
24.8000	757.04	757.04	757.03	757.03	757.03
25.0000	757.03	757.03	757.03	757.03	757.02
25.2000	757.02	757.02	757.02	757.02	757.02
25.4000	757.02	757.02	757.02	757.02	757.02
25.6000	757.01	757.01	757.01	757.01	757.01
25.8000	757.01	757.01	757.01	757.01	757.01
26.0000	757.01	757.01	757.01	757.01	757.01
26.2000	757.01	757.01	757.01	757.01	757.01
26.4000	757.01	757.00	757.00	757.00	757.00
26.6000	757.00	757.00	757.00	757.00	757.00
26.8000	757.00	757.00	757.00	757.00	757.00
27.0000	757.00	757.00	757.00	757.00	757.00
27.2000	757.00	757.00	757.00	757.00	757.00

TVA-00001799

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0400 hrs Time on left represents time for first value in each row.				
27.4000	757.00	757.00	757.00	757.00	757.00
27.6000	757.00	757.00	757.00	757.00	757.00
27.8000	757.00	757.00	757.00	757.00	757.00
28.0000	757.00	757.00	757.00	757.00	757.00
28.2000	757.00	757.00	757.00	757.00	757.00
28.4000	757.00	757.00	757.00	757.00	757.00
28.6000	757.00	757.00	757.00	757.00	757.00
28.8000	757.00	757.00	757.00	757.00	757.00
29.0000	757.00	757.00	757.00	757.00	757.00
29.2000	757.00	757.00	757.00	757.00	757.00
29.4000	757.00	757.00	757.00	757.00	757.00
29.6000	757.00	757.00	757.00	757.00	757.00
29.8000	757.00	757.00	757.00	757.00	757.00
30.0000	757.00	757.00	757.00	757.00	757.00
30.2000	757.00	757.00	757.00	757.00	757.00
30.4000	757.00	757.00	757.00	757.00	757.00
30.6000	757.00	757.00	757.00	757.00	757.00
30.8000	757.00	757.00	757.00	757.00	757.00
31.0000	757.00	757.00	757.00	757.00	757.00
31.2000	757.00	757.00	757.00	757.00	757.00
31.4000	757.00	757.00	757.00	757.00	757.00
31.6000	757.00	757.00	757.00	757.00	757.00
31.8000	757.00	757.00	757.00	757.00	757.00
32.0000	757.00	757.00	757.00	757.00	757.00
32.2000	757.00	757.00	757.00	757.00	757.00
32.4000	757.00	757.00	757.00	757.00	757.00
32.6000	757.00	757.00	757.00	757.00	757.00
32.8000	757.00	757.00	757.00	757.00	757.00
33.0000	757.00	757.00	757.00	757.00	757.00
33.2000	757.00	757.00	757.00	757.00	757.00
33.4000	757.00	757.00	757.00	757.00	757.00
33.6000	757.00	757.00	757.00	757.00	757.00
33.8000	757.00	757.00	757.00	757.00	757.00
34.0000	757.00	757.00	757.00	757.00	757.00
34.2000	757.00	757.00	757.00	757.00	757.00
34.4000	757.00	757.00	757.00	757.00	757.00
34.6000	757.00	757.00	757.00	757.00	757.00
34.8000	757.00	757.00	757.00	757.00	757.00
35.0000	757.00				

TVA-00001800

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0400 hrs Time on left represents time for first value in each row.				
.0000	757.00	757.00	757.00	757.00	757.00
.2000	757.00	757.00	757.00	757.00	757.00
.4000	757.00	757.00	757.00	757.00	757.00
.6000	757.00	757.00	757.00	757.00	757.00
.8000	757.00	757.00	757.00	757.00	757.00
1.0000	757.00	757.00	757.00	757.00	757.00
1.2000	757.00	757.00	757.00	757.00	757.00
1.4000	757.00	757.00	757.00	757.00	757.00
1.6000	757.00	757.00	757.00	757.00	757.00
1.8000	757.00	757.00	757.00	757.00	757.00
2.0000	757.00	757.00	757.00	757.00	757.00
2.2000	757.00	757.00	757.00	757.00	757.00
2.4000	757.00	757.00	757.00	757.00	757.00
2.6000	757.00	757.00	757.00	757.00	757.00
2.8000	757.00	757.00	757.00	757.00	757.00
3.0000	757.00	757.00	757.00	757.00	757.00
3.2000	757.00	757.00	757.00	757.00	757.00
3.4000	757.00	757.00	757.00	757.00	757.00
3.6000	757.00	757.00	757.00	757.00	757.00
3.8000	757.00	757.00	757.00	757.00	757.00
4.0000	757.00	757.00	757.00	757.00	757.00
4.2000	757.00	757.00	757.00	757.00	757.00
4.4000	757.00	757.00	757.00	757.00	757.00
4.6000	757.00	757.00	757.00	757.00	757.00
4.8000	757.00	757.00	757.00	757.00	757.00
5.0000	757.00	757.00	757.00	757.00	757.00
5.2000	757.00	757.00	757.00	757.00	757.00
5.4000	757.00	757.00	757.00	757.01	757.01
5.6000	757.01	757.01	757.01	757.01	757.01
5.8000	757.01	757.01	757.01	757.01	757.01
6.0000	757.01	757.01	757.01	757.01	757.01
6.2000	757.01	757.01	757.01	757.01	757.01
6.4000	757.01	757.01	757.01	757.01	757.01
6.6000	757.01	757.01	757.01	757.01	757.01
6.8000	757.01	757.01	757.01	757.01	757.01
7.0000	757.01	757.01	757.02	757.02	757.02
7.2000	757.02	757.02	757.02	757.02	757.02
7.4000	757.02	757.02	757.02	757.02	757.02
7.6000	757.02	757.02	757.02	757.02	757.02
7.8000	757.02	757.02	757.02	757.02	757.02
8.0000	757.02	757.02	757.02	757.02	757.02
8.2000	757.02	757.02	757.02	757.02	757.02
8.4000	757.03	757.03	757.03	757.03	757.03
8.6000	757.03	757.03	757.03	757.03	757.03
8.8000	757.03	757.03	757.03	757.03	757.03

TVA-00001801

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0400 hrs Time on left represents time for first value in each row.				
9.0000	757.03	757.03	757.04	757.04	757.04
9.2000	757.04	757.04	757.04	757.04	757.04
9.4000	757.04	757.04	757.04	757.05	757.05
9.6000	757.05	757.05	757.05	757.05	757.05
9.8000	757.05	757.05	757.05	757.06	757.06
10.0000	757.06	757.06	757.06	757.06	757.06
10.2000	757.06	757.07	757.07	757.07	757.07
10.4000	757.07	757.08	757.08	757.08	757.08
10.6000	757.08	757.09	757.09	757.09	757.09
10.8000	757.10	757.10	757.10	757.10	757.11
11.0000	757.11	757.12	757.12	757.12	757.13
11.2000	757.13	757.14	757.14	757.15	757.15
11.4000	757.16	757.16	757.17	757.18	757.18
11.6000	757.19	757.20	757.22	757.23	757.26
11.8000	757.29	757.33	757.39	757.47	757.56
12.0000	757.65	757.75	757.82	757.87	757.89
12.2000	757.92	757.93	757.95	757.96	757.97
12.4000	757.98	757.98	757.99	757.99	757.99
12.6000	757.99	757.99	757.99	757.99	757.98
12.8000	757.98	757.98	757.97	757.97	757.96
13.0000	757.95	757.95	757.94	757.94	757.93
13.2000	757.92	757.91	757.91	757.90	757.89
13.4000	757.88	757.87	757.87	757.86	757.85
13.6000	757.84	757.83	757.81	757.80	757.78
13.8000	757.77	757.75	757.73	757.71	757.69
14.0000	757.68	757.66	757.64	757.62	757.60
14.2000	757.59	757.57	757.55	757.54	757.52
14.4000	757.51	757.49	757.48	757.46	757.45
14.6000	757.44	757.43	757.42	757.41	757.40
14.8000	757.39	757.38	757.37	757.37	757.36
15.0000	757.35	757.34	757.34	757.33	757.32
15.2000	757.32	757.31	757.31	757.30	757.30
15.4000	757.29	757.29	757.28	757.28	757.27
15.6000	757.27	757.26	757.26	757.26	757.25
15.8000	757.25	757.24	757.24	757.24	757.23
16.0000	757.23	757.23	757.22	757.22	757.22
16.2000	757.22	757.21	757.21	757.21	757.20
16.4000	757.20	757.20	757.20	757.19	757.19
16.6000	757.19	757.19	757.19	757.18	757.18
16.8000	757.18	757.18	757.18	757.18	757.17
17.0000	757.17	757.17	757.17	757.17	757.17
17.2000	757.16	757.16	757.16	757.16	757.16
17.4000	757.16	757.16	757.16	757.15	757.15
17.6000	757.15	757.15	757.15	757.15	757.15
17.8000	757.15	757.15	757.15	757.14	757.14
18.0000	757.14	757.14	757.14	757.14	757.14

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0400 hrs Time on left represents time for first value in each row.				
18.2000	757.14	757.14	757.14	757.14	757.13
18.4000	757.13	757.13	757.13	757.13	757.13
18.6000	757.13	757.13	757.13	757.13	757.13
18.8000	757.13	757.13	757.13	757.12	757.12
19.0000	757.12	757.12	757.12	757.12	757.12
19.2000	757.12	757.12	757.12	757.12	757.12
19.4000	757.12	757.12	757.11	757.11	757.11
19.6000	757.11	757.11	757.11	757.11	757.11
19.8000	757.11	757.11	757.11	757.11	757.11
20.0000	757.11	757.11	757.10	757.10	757.10
20.2000	757.10	757.10	757.10	757.10	757.10
20.4000	757.10	757.10	757.10	757.10	757.10
20.6000	757.10	757.10	757.10	757.10	757.09
20.8000	757.09	757.09	757.09	757.09	757.09
21.0000	757.09	757.09	757.09	757.09	757.09
21.2000	757.09	757.09	757.09	757.09	757.09
21.4000	757.09	757.09	757.09	757.09	757.09
21.6000	757.09	757.09	757.09	757.09	757.09
21.8000	757.09	757.09	757.09	757.09	757.09
22.0000	757.09	757.08	757.08	757.08	757.08
22.2000	757.08	757.08	757.08	757.08	757.08
22.4000	757.08	757.08	757.08	757.08	757.08
22.6000	757.08	757.08	757.08	757.08	757.08
22.8000	757.08	757.08	757.08	757.08	757.08
23.0000	757.08	757.08	757.08	757.08	757.08
23.2000	757.08	757.08	757.08	757.08	757.08
23.4000	757.08	757.08	757.08	757.08	757.08
23.6000	757.08	757.08	757.08	757.08	757.08
23.8000	757.08	757.08	757.08	757.08	757.08
24.0000	757.08	757.08	757.08	757.08	757.08
24.2000	757.08	757.07	757.07	757.07	757.07
24.4000	757.07	757.07	757.06	757.06	757.06
24.6000	757.06	757.05	757.05	757.05	757.05
24.8000	757.05	757.04	757.04	757.04	757.04
25.0000	757.04	757.04	757.03	757.03	757.03
25.2000	757.03	757.03	757.03	757.03	757.02
25.4000	757.02	757.02	757.02	757.02	757.02
25.6000	757.02	757.02	757.02	757.02	757.01
25.8000	757.01	757.01	757.01	757.01	757.01
26.0000	757.01	757.01	757.01	757.01	757.01
26.2000	757.01	757.01	757.01	757.01	757.01
26.4000	757.01	757.01	757.01	757.01	757.01
26.6000	757.00	757.00	757.00	757.00	757.00
26.8000	757.00	757.00	757.00	757.00	757.00
27.0000	757.00	757.00	757.00	757.00	757.00
27.2000	757.00	757.00	757.00	757.00	757.00

TVA-00001803

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0400 hrs Time on left represents time for first value in each row.				
27.4000	757.00	757.00	757.00	757.00	757.00
27.6000	757.00	757.00	757.00	757.00	757.00
27.8000	757.00	757.00	757.00	757.00	757.00
28.0000	757.00	757.00	757.00	757.00	757.00
28.2000	757.00	757.00	757.00	757.00	757.00
28.4000	757.00	757.00	757.00	757.00	757.00
28.6000	757.00	757.00	757.00	757.00	757.00
28.8000	757.00	757.00	757.00	757.00	757.00
29.0000	757.00	757.00	757.00	757.00	757.00
29.2000	757.00	757.00	757.00	757.00	757.00
29.4000	757.00	757.00	757.00	757.00	757.00
29.6000	757.00	757.00	757.00	757.00	757.00
29.8000	757.00	757.00	757.00	757.00	757.00
30.0000	757.00	757.00	757.00	757.00	757.00
30.2000	757.00	757.00	757.00	757.00	757.00
30.4000	757.00	757.00	757.00	757.00	757.00
30.6000	757.00	757.00	757.00	757.00	757.00
30.8000	757.00	757.00	757.00	757.00	757.00
31.0000	757.00	757.00	757.00	757.00	757.00
31.2000	757.00	757.00	757.00	757.00	757.00
31.4000	757.00	757.00	757.00	757.00	757.00
31.6000	757.00	757.00	757.00	757.00	757.00
31.8000	757.00	757.00	757.00	757.00	757.00
32.0000	757.00	757.00	757.00	757.00	757.00
32.2000	757.00	757.00	757.00	757.00	757.00
32.4000	757.00	757.00	757.00	757.00	757.00
32.6000	757.00	757.00	757.00	757.00	757.00
32.8000	757.00	757.00	757.00	757.00	757.00
33.0000	757.00	757.00	757.00	757.00	757.00
33.2000	757.00	757.00	757.00	757.00	757.00
33.4000	757.00	757.00	757.00	757.00	757.00
33.6000	757.00	757.00	757.00	757.00	757.00
33.8000	757.00	757.00	757.00	757.00	757.00
34.0000	757.00	757.00	757.00	757.00	757.00
34.2000	757.00	757.00	757.00	757.00	757.00
34.4000	757.00	757.00	757.00	757.00	757.00
34.6000	757.00	757.00	757.00	757.00	757.00
34.8000	757.00	757.00	757.00	757.00	757.00
35.0000	757.00				

TVA-00001804

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

Elevation (ft)	Planimeter (sq.in)	Area (acres)	A1+A2+sqr(A1*A2) (acres)	Volume (ac-ft)	Volume Sum (ac-ft)
757.00	-----	8.0100	.0000	.000	.000
758.00	-----	9.4200	26.1164	8.705	8.705
759.00	-----	10.0800	29.2444	9.748	18.454
760.00	-----	10.7100	31.1802	10.393	28.847
761.00	-----	11.2700	32.9664	10.989	39.836
762.00	-----	12.3100	35.3585	11.786	51.622
763.00	-----	13.7800	39.1143	13.038	64.660

POND VOLUME EQUATIONS

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

Volume = (1/3) * (EL2-EL1) * (Area1 + Area2 + sq.rt.(Area1*Area2))

where: EL1, EL2 = Lower and upper elevations of the increment
Area1,Area2 = Areas computed for EL1, EL2, respectively
Volume = Incremental volume between EL1 and EL2

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USER DEFINED VOLUME RATING TABLE

Elevation (ft)	Volume (ac-ft)
747.00	.640
748.00	4.880
749.00	17.040
750.00	20.560
751.00	21.750
752.00	22.530
753.00	23.190
754.00	23.700
755.00	24.170
756.00	24.550
757.00	24.840
758.00	25.130
759.00	25.410
760.00	25.650
761.00	25.910
762.00	26.200
763.00	26.460
764.00	26.760
765.00	27.060

TVA-00001806

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

REQUESTED POND WS ELEVATIONS:

Min. Elev.= 757.00 ft
Increment = .50 ft
Max. Elev.= 763.00 ft

****
OUTLET CONNECTIVITY
****

---> Forward Flow Only (UpStream to DnStream)
<--- Reverse Flow Only (DnStream to UpStream)
<---> Forward and Reverse Both Allowed

Structure	No.		Outfall	E1, ft	E2, ft
Stand Pipe	SP	--->	CV	758.000	763.000
Stand Pipe	SP	--->	CV	758.000	763.000
Stand Pipe	SP	--->	CV	758.000	763.000
Stand Pipe	SP	--->	CV	758.000	763.000
Stand Pipe	SP	--->	CV	758.000	763.000
Culvert-Circular	CV	--->	TW	752.000	763.000

TW SETUP, DS Channel

TVA-00001807

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

OUTLET STRUCTURE INPUT DATA

Structure ID	= SP	
Structure Type	= Stand Pipe	
# of Openings	= 1	
Invert Elev.	= 758.00	ft
Diameter	= 4.5000	ft
Orifice Area	= 15.9043	sq.ft
Orifice Coeff.	= .600	
Weir Length	= 14.14	ft
Weir Coeff.	= 3.247	
K, Submerged	= .000	
K, Reverse	= 1.000	
Kb,Barrel	= .000000	(per ft of full flow)
Barrel Length	= .00	ft
Mannings n	= .0000	

Structure ID	= SP	
Structure Type	= Stand Pipe	
# of Openings	= 1	
Invert Elev.	= 758.00	ft
Diameter	= 4.5000	ft
Orifice Area	= 15.9043	sq.ft
Orifice Coeff.	= .600	
Weir Length	= 14.14	ft
Weir Coeff.	= 3.247	
K, Submerged	= .000	
K, Reverse	= 1.000	
Kb,Barrel	= .000000	(per ft of full flow)
Barrel Length	= .00	ft
Mannings n	= .0000	

TVA-00001808

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

OUTLET STRUCTURE INPUT DATA

Structure ID	= SP	
Structure Type	= Stand Pipe	
# of Openings	= 1	
Invert Elev.	= 758.00	ft
Diameter	= 4.5000	ft
Orifice Area	= 15.9043	sq.ft
Orifice Coeff.	= .600	
Weir Length	= 14.14	ft
Weir Coeff.	= 3.247	
K, Submerged	= .000	
K, Reverse	= 1.000	
Kb,Barrel	= .000000	(per ft of full flow)
Barrel Length	= .00	ft
Mannings n	= .0000	

Structure ID	= SP	
Structure Type	= Stand Pipe	
# of Openings	= 1	
Invert Elev.	= 758.00	ft
Diameter	= 4.5000	ft
Orifice Area	= 15.9043	sq.ft
Orifice Coeff.	= .600	
Weir Length	= 14.14	ft
Weir Coeff.	= 3.247	
K, Submerged	= .000	
K, Reverse	= 1.000	
Kb,Barrel	= .000000	(per ft of full flow)
Barrel Length	= .00	ft
Mannings n	= .0000	

TVA-00001809

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

OUTLET STRUCTURE INPUT DATA

Structure ID	=	SP	
Structure Type	=	Stand Pipe	
# of Openings	=	1	
Invert Elev.	=	758.00	ft
Diameter	=	4.5000	ft
Orifice Area	=	15.9043	sq.ft
Orifice Coeff.	=	.600	
Weir Length	=	14.14	ft
Weir Coeff.	=	3.247	
K, Submerged	=	.000	
K, Reverse	=	1.000	
Kb,Barrel	=	.000000	(per ft of full flow)
Barrel Length	=	.00	ft
Mannings n	=	.0000	

TVA-00001810

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP PHASE2_FINAL COVER_A.PPW

OUTLET STRUCTURE INPUT DATA

Structure ID	= CV	
Structure Type	= Culvert-Circular	
No. Barrels	= 5	
Barrel Diameter	= 3.0000	ft
Upstream Invert	= 752.00	ft
Dnstream Invert	= 751.00	ft
Horiz. Length	= 200.00	ft
Barrel Length	= 200.00	ft
Barrel Slope	= .00500	ft/ft

OUTLET CONTROL DATA...

Mannings n	= .0120	
Ke	= .5000	(forward entrance loss)
Kb	= .006159	(per ft of full flow)
Kr	= .5000	(reverse entrance loss)
HW Convergence	= .001	+/- ft

INLET CONTROL DATA...

Equation form	= 1	
Inlet Control K	= .0098	
Inlet Control M	= 2.0000	
Inlet Control c	= .03980	
Inlet Control Y	= .6700	
T1 ratio (HW/D)	= 1.158	
T2 ratio (HW/D)	= 1.304	
Slope Factor	= -.500	

Use unsubmerged inlet control Form 1 equ. below T1 elev.
Use submerged inlet control Form 1 equ. above T2 elev.

In transition zone between unsubmerged and submerged inlet control, interpolate between flows at T1 & T2...

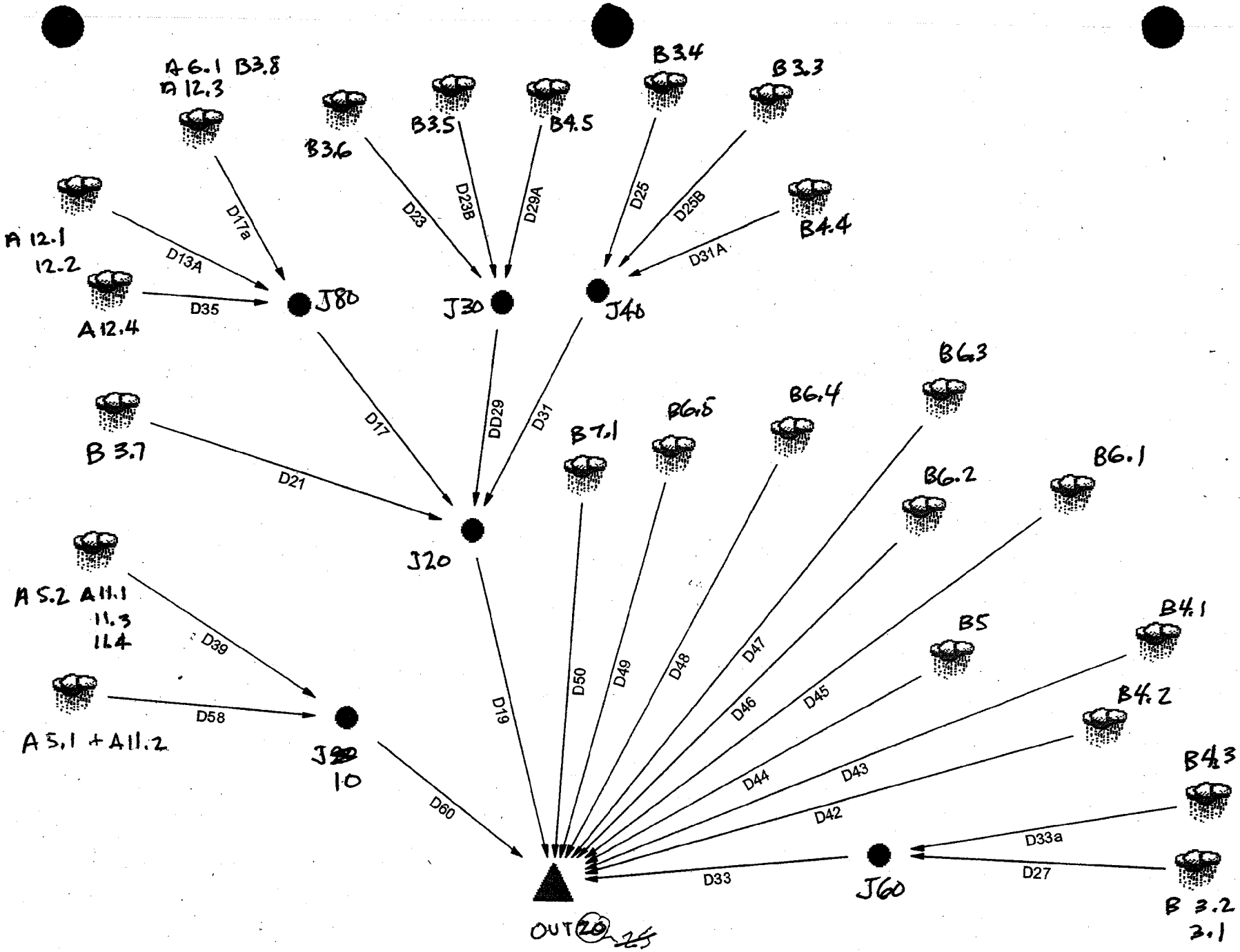
At T1 Elev =	755.47 ft	--->	Flow =	42.85 cfs
At T2 Elev =	755.91 ft	--->	Flow =	48.97 cfs

TVA-00001811

Index of Starting Page Numbers for ID Names

TVA-00001812

ATTACHMENT 2.1 – DITCH 1 MODEL FOR DITCH FLOWS



Ditches 1

6/1

TVA-00001814

Table of Contents

TVA-00001815

Table of Contents (continued)

TVA-00001816

Table of Contents (continued)

TVA-00001817

Table of Contents (continued)

TVA-00001818

NETWORK SUMMARY -- LINKS
(UN=Upstream Node; DL=DNstream End of Link; DN=DNstream Node)
(Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

DEFAULT Design Storm File,ID = KIF

Storm Tag Name = 25yr

Data Type, File, ID = Synthetic Storm TypeII 24hr
Storm Frequency = 25 yr
Total Rainfall Depth= 5.5000 in
Duration Multiplier = 1
Resulting Duration = 24.0000 hrs
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

ICPM CALCULATION TOLERANCES

Target Convergence= .000 cfs +/-
Max. Iterations = 35 loops
ICPM Time Step = .0400 hrs
Output Time Step = .0400 hrs
ICPM Ending Time = 35.0000 hrs

Link ID	Type		HYG Vol ac-ft	Trun.	Peak Time hrs	Peak Q cfs	End Points
D13A	ADD	UN	1.928		12.0800	24.12	SUB12.1&12.2
		DL	1.928		12.0800	24.12	
		DN	3.962		12.0000	52.43	JUNC 80
D17	ADD	UN	3.962		12.0000	52.43	JUNC 80
		DL	3.962		12.0000	52.43	
		DN	8.058		12.0000	117.68	JUNC 20
D17A	ADD	UN	1.677		11.9600	27.68	SUBA12.36.1B3.8
		DL	1.677		11.9600	27.68	
		DN	3.962		12.0000	52.43	JUNC 80
D19	ADD	UN	8.058		12.0000	117.68	JUNC 20
		DL	8.058		12.0000	117.68	
		DN	18.636		11.9600	301.52	OUT 20
D21	ADD	UN	.838		11.9600	13.37	SUB B3.7
		DL	.838		11.9600	13.37	
		DN	8.058		12.0000	117.68	JUNC 20

TVA-00001819

NETWORK SUMMARY -- LINKS

(UN=Upstream Node; DL=DNstream End of Link; DN=DNstream Node)
(Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

Link ID	Type		HYG Vol ac-ft	Trun.	Peak Time hrs	Peak Q cfs	End Points
D23	ADD	UN	.744		11.9600	12.17	SUBB3.6
		DL	.744		11.9600	12.17	
		DN	1.656		11.9600	27.42	JUNC 30
D23B	ADD	UN	.643		11.9600	10.52	SUBB3.5
		DL	.643		11.9600	10.52	
		DN	1.656		11.9600	27.42	JUNC 30
D25	ADD	UN	.542		11.9600	8.87	SUBB3.4
		DL	.542		11.9600	8.87	
		DN	1.602		11.9600	26.86	JUNC 40
D25B	ADD	UN	.522		11.9600	8.54	SUBB3.3
		DL	.522		11.9600	8.54	
		DN	1.602		11.9600	26.86	JUNC 40
D27	ADD	UN	.744		11.9600	12.17	SUB B3.2&3.1
		DL	.744		11.9600	12.17	
		DN	1.426		11.9600	24.15	JUNC 60
D29A	ADD	UN	.269		11.9200	5.04	SUB B4.5
		DL	.269		11.9200	5.04	
		DN	1.656		11.9600	27.42	JUNC 30
D31	ADD	UN	1.602		11.9600	26.86	JUNC 40
		DL	1.602		11.9600	26.86	
		DN	8.058		12.0000	117.68	JUNC 20
D31A	ADD	UN	.538		11.9200	10.08	SUBB4.4
		DL	.538		11.9200	10.08	
		DN	1.602		11.9600	26.86	JUNC 40
D33	ADD	UN	1.426		11.9600	24.15	JUNC 60
		DL	1.426		11.9600	24.15	
		DN	18.636		11.9600	301.52	OUT 20
D33A	ADD	UN	.682		11.9200	12.77	SUBB4.3
		DL	.682		11.9200	12.77	
		DN	1.426		11.9600	24.15	JUNC 60

NETWORK SUMMARY -- LINKS
(UN=Upstream Node; DL=DNstream End of Link; DN=DNstream Node)
(Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

Link ID	Type		HYG Vol ac-ft	Trun.	Peak Time hrs	Peak Q cfs	End Points
D35	ADD	UN	.357		12.0800	4.46	SUB A12.4
		DL	.357		12.0800	4.46	
		DN	3.962		12.0000	52.43	JUNC 80
D39	ADD	UN	1.328		11.9600	22.56	SUBA5.2A11.1.3.4
		DL	1.328		11.9600	22.56	
		DN	2.130		11.9600	36.59	JUNC 10
D42	ADD	UN	.940		11.9200	17.62	SUBB4.2
		DL	.940		11.9200	17.62	
		DN	18.636		11.9600	301.52	OUT 20
D43	ADD	UN	.457		11.9200	8.55	SUBAREA B4.1
		DL	.457		11.9200	8.55	
		DN	18.636		11.9600	301.52	OUT 20
D44	ADD	UN	.313		11.9200	5.86	SUBAREA B5
		DL	.313		11.9200	5.86	
		DN	18.636		11.9600	301.52	OUT 20
D45	ADD	UN	.611		11.9200	11.44	SUBAREA B6.1
		DL	.611		11.9200	11.44	
		DN	18.636		11.9600	301.52	OUT 20
D46	ADD	UN	.686		11.9200	12.85	SUBAREA B6.2
		DL	.686		11.9200	12.85	
		DN	18.636		11.9600	301.52	OUT 20
D47	ADD	UN	.971		11.9200	18.20	SUBAREA B6.3
		DL	.971		11.9200	18.20	
		DN	18.636		11.9600	301.52	OUT 20
D48	ADD	UN	1.015		11.9200	19.02	SUBAREA B6.4
		DL	1.015		11.9200	19.02	
		DN	18.636		11.9600	301.52	OUT 20
D49	ADD	UN	.996		11.9200	18.67	SUBAREA B6.5
		DL	.996		11.9200	18.67	
		DN	18.636		11.9600	301.52	OUT 20

NETWORK SUMMARY -- LINKS
(UN=Upstream Node; DL=DNstream End of Link; DN=DNstream Node)
(Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

Link ID	Type		HYG Vol ac-ft	Trun.	Peak Time hrs	Peak Q cfs	End Points
D50	ADD	UN	1.034		11.9200	19.37	SUBB7.1
		DL	1.034		11.9200	19.37	
		DN	18.636		11.9600	301.52	OUT 20
D58	ADD	UN	.802		11.9600	14.03	SUB A5.1+A11.2
		DL	.802		11.9600	14.03	
		DN	2.130		11.9600	36.59	JUNC 10
D60	ADD	UN	2.130		11.9600	36.59	JUNC 10
		DL	2.130		11.9600	36.59	
		DN	18.636		11.9600	301.52	OUT 20
DD29	ADD	UN	1.656		11.9600	27.42	JUNC 30
		DL	1.656		11.9600	27.42	
		DN	8.058		12.0000	117.68	JUNC 20

TVA-00001822

File.... C:\Haestad\PPKW\KIF\
Title... Project Date: 5/3/2004
Project Engineer: Daniel R. Smith
Project Title: KIF Lat Exp Interim Operation w/phase2&3 pond
Project Comments:
This model analyzes the cond of the expan during operation, while Phase 2/3 has a pond. The time of concentration is minimized due to the pond.

DESIGN STORMS SUMMARY

Design Storm File,ID = KIF

Storm Tag Name = 2yr

Data Type, File, ID = Synthetic Storm TypeII 24hr
Storm Frequency = 2 yr
Total Rainfall Depth= 3.2500 in
Duration Multiplier = 1
Resulting Duration = 24.0000 hrs
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = 10yr

Data Type, File, ID = Synthetic Storm TypeII 24hr
Storm Frequency = 10 yr
Total Rainfall Depth= 3.6000 in
Duration Multiplier = 1
Resulting Duration = 24.0000 hrs
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = 25yr

Data Type, File, ID = Synthetic Storm TypeII 24hr
Storm Frequency = 25 yr
Total Rainfall Depth= 5.5000 in
Duration Multiplier = 1
Resulting Duration = 24.0000 hrs
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = 100yr

Data Type, File, ID = Synthetic Storm TypeII 24hr
Storm Frequency = 100 yr
Total Rainfall Depth= 6.5000 in
Duration Multiplier = 1
Resulting Duration = 24.0000 hrs
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

CUMULATIVE RAINFALL FRACTIONS
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
.0000	.000	.001	.002	.003	.004
.5000	.005	.006	.007	.008	.009
1.0000	.011	.012	.013	.014	.015
1.5000	.016	.017	.018	.020	.021
2.0000	.022	.023	.024	.026	.027
2.5000	.028	.029	.031	.032	.033
3.0000	.035	.036	.037	.038	.040
3.5000	.041	.042	.044	.045	.047
4.0000	.048	.049	.051	.052	.054
4.5000	.055	.057	.058	.060	.061
5.0000	.063	.065	.066	.068	.070
5.5000	.071	.073	.075	.076	.078
6.0000	.080	.082	.084	.085	.087
6.5000	.089	.091	.093	.095	.097
7.0000	.099	.101	.103	.105	.107
7.5000	.109	.111	.113	.116	.118
8.0000	.120	.122	.125	.127	.130
8.5000	.132	.135	.138	.141	.144
9.0000	.147	.150	.153	.157	.160
9.5000	.163	.166	.170	.173	.177
10.0000	.181	.185	.189	.194	.199
10.5000	.204	.209	.215	.221	.228
11.0000	.235	.243	.251	.261	.271
11.5000	.283	.307	.354	.431	.568
12.0000	.663	.682	.699	.713	.725
12.5000	.735	.743	.751	.759	.766
13.0000	.772	.778	.784	.789	.794
13.5000	.799	.804	.808	.812	.816
14.0000	.820	.824	.827	.831	.834
14.5000	.838	.841	.844	.847	.850
15.0000	.854	.856	.859	.862	.865
15.5000	.868	.870	.873	.875	.878
16.0000	.880	.882	.885	.887	.889
16.5000	.891	.893	.895	.898	.900
17.0000	.902	.904	.906	.908	.910
17.5000	.912	.914	.915	.917	.919
18.0000	.921	.923	.925	.926	.928
18.5000	.930	.931	.933	.935	.936
19.0000	.938	.939	.941	.942	.944
19.5000	.945	.947	.948	.949	.951
20.0000	.952	.953	.955	.956	.957
20.5000	.958	.960	.961	.962	.964
21.0000	.965	.966	.967	.968	.970
21.5000	.971	.972	.973	.975	.976
22.0000	.977	.978	.979	.981	.982
22.5000	.983	.984	.985	.986	.988

TVA-00001824

CUMULATIVE RAINFALL FRACTIONS
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
23.0000	.989	.990	.991	.992	.993
23.5000	.994	.996	.997	.998	.999
24.0000	1.000				

TVA-00001825

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP W_PHASE2_DITCHES_1A.PPW

TIME OF CONCENTRATION CALCULATOR

Segment #1: Tc: User Defined

Segment #1 Time: .3300 hrs

Total Tc: .3300 hrs

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP W_PHASE2_DITCHES_1A.PPW

Tc Equations used...

==== User Defined ==========

Tc = Value entered by user

Where: Tc = Time of concentration

TVA-00001827

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP W_PHASE2_DITCHES_1A.PPW

TIME OF CONCENTRATION CALCULATOR

Segment #1: Tc: User Defined

Segment #1 Time: .1200 hrs

Total Tc: .1200 hrs

TVA-00001828

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP W_PHASE2_DITCHES_1A.PPW

Tc Equations used...

==== User Defined ==========

Tc = Value entered by user

Where: Tc = Time of concentration

TVA-00001829

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP W_PHASE2_DITCHES_1A.PPW

TIME OF CONCENTRATION CALCULATOR

Segment #1: Tc: User Defined

Segment #1 Time: .1500 hrs

Total Tc: .1500 hrs

TVA-00001830

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP W_PHASE2_DITCHES_1A.PPW

Tc Equations used...

==== User Defined ==========

Tc = Value entered by user

Where: Tc = Time of concentration

TVA-00001831

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP W_PHASE2_DITCHES_1A.PPW

TIME OF CONCENTRATION CALCULATOR

Segment #1: Tc: User Defined

Segment #1 Time: .1600 hrs

Total Tc: .1600 hrs

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP W_PHASE2_DITCHES_1A.PPW

Tc Equations used...

==== User Defined ==========

Tc = Value entered by user

Where: Tc = Time of concentration

TVA-00001833

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP W_PHASE2_DITCHES_1A.PPW

TIME OF CONCENTRATION CALCULATOR

Segment #1: Tc: User Defined

Segment #1 Time: .0800 hrs

Total Tc: .0800 hrs

Calculated Tc < Min.Tc:
Use Minimum Tc...
Use Tc = .0833 hrs

TVA-00001834

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP W_PHASE2_DITCHES_1A.PPW

Tc Equations used...

==== User Defined ==========

Tc = Value entered by user

Where: Tc = Time of concentration

TVA-00001835

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP W_PHASE2_DITCHES_1A.PPW

::
TIME OF CONCENTRATION CALCULATOR
::

Segment #1: Tc: User Defined

Segment #1 Time: .3300 hrs

==========
Total Tc: .3300 hrs
==========

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP W_PHASE2_DITCHES_1A.PPW

Tc Equations used...

==== User Defined ==========

Tc = Value entered by user

Where: Tc = Time of concentration

TVA-00001837

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP W_PHASE2_DITCHES_1A.PPW

::
TIME OF CONCENTRATION CALCULATOR
::

Segment #1: Tc: User Defined

Segment #1 Time: .1500 hrs

==========
Total Tc: .1500 hrs
==========

TVA-00001838

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP W_PHASE2_DITCHES_1A.PPW

Tc Equations used...

==== User Defined ==========

Tc = Value entered by user

Where: Tc = Time of concentration

TVA-00001839

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP W_PHASE2_DITCHES_1A.PPW

::
TIME OF CONCENTRATION CALCULATOR
::

Segment #1: Tc: User Defined

Segment #1 Time: .1400 hrs

==========
Total Tc: .1400 hrs
==========

TVA-00001840

Tc Equations used...

==== User Defined ==========

Tc = Value entered by user

Where: Tc = Time of concentration

TVA-00001841

::
TIME OF CONCENTRATION CALCULATOR
::

Segment #1: Tc: User Defined

Segment #1 Time: .0800 hrs

==========
Total Tc: .0800 hrs

Calculated Tc < Min.Tc:
Use Minimum Tc...
Use Tc = .0833 hrs
==========

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP W_PHASE2_DITCHES_1A.PPW

Tc Equations used...

==== User Defined ==========

Tc = Value entered by user

Where: Tc = Time of concentration

TVA-00001843

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP W_PHASE2_DITCHES_1A.PPW

::
TIME OF CONCENTRATION CALCULATOR
::

Segment #1: Tc: User Defined

Segment #1 Time: .0800 hrs

==========
Total Tc: .0800 hrs

Calculated Tc < Min.Tc:
Use Minimum Tc...
Use Tc = .0833 hrs
==========

TVA-00001844

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP W_PHASE2_DITCHES_1A.PPW

Tc Equations used...

==== User Defined ==========

Tc = Value entered by user

Where: Tc = Time of concentration

TVA-00001845

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP W_PHASE2_DITCHES_1A.PPW

::
TIME OF CONCENTRATION CALCULATOR
::

Segment #1: Tc: User Defined

Segment #1 Time: .0800 hrs

==========
Total Tc: .0800 hrs

Calculated Tc < Min.Tc:
Use Minimum Tc...
Use Tc = .0833 hrs
==========

TVA-00001846

File.... C:\Haestad\PPKW\KIF\KIF LAT EXP W_PHASE2_DITCHES_1A.PPW

Tc Equations used...

==== User Defined ==========

Tc = Value entered by user

Where: Tc = Time of concentration

TVA-00001847