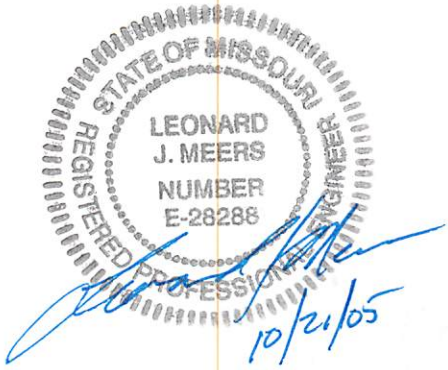
PERSIMMON POINTE P.U.D. – 2
O'FALLON, MISSOURI

REGIONAL DETENTION ANALYSIS

Prepared for:

R.G.Brinkmann Co.
16650 Chesterfield Grove Rd.
Chesterfield, MO 63005

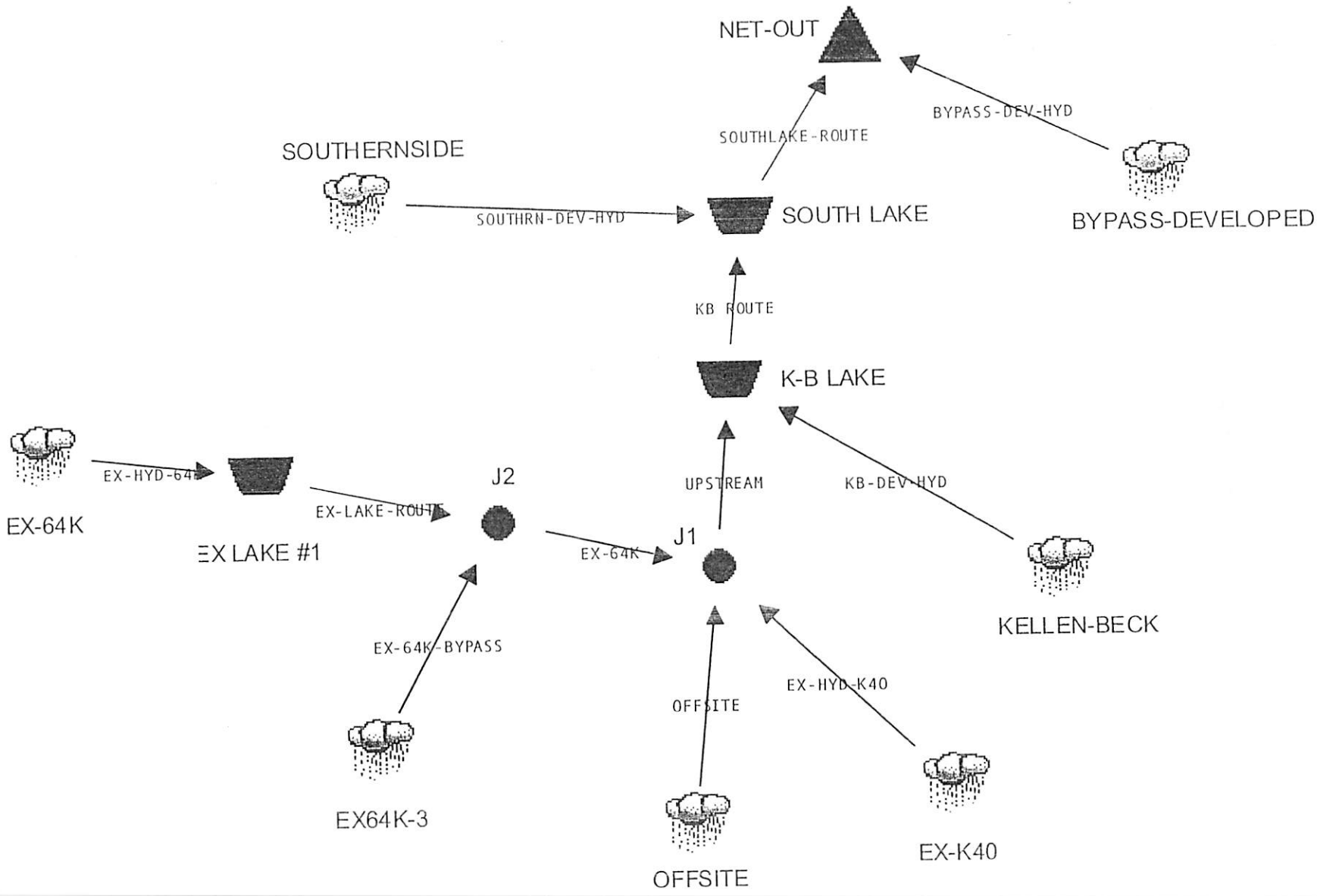
Prepared by: L. Meers
Checked by: J. Grimes
Job No. 675B
Date: 04-09-02
Revised: August 9, 2002



2 of 2

P.O.I #3

DEV.


NET-OUT
BYPASS-DEV-HYD
SOUTHLAKE-ROUTE
SOUTHERNSIDE
SOUTHRN-DEV-HYD
SOUTH LAKE
BYPASS-DEVELOPED
KB ROUTE
K-B LAKE
EX-HYD-64
J2
UPSTREAM
KB-DEV-HYD
EX-64K
EX-LAKE-ROUTE
EX LAKE #1
J1
EX-64K
KELLEN-BECK
EX-64K-BYPASS
OFFSITE
EX-HYD-K40
EX64K-3
OFFSITE
EX-K40

MASTER DESIGN STORM SUMMARY

Default Network Design Storm File, ID PERSIMON.RNQ PERSIMMON

Return Event	Total Depth in	Rainfall Type	RNF File	RNF ID
2	3.5000	Synthetic Curve	SCSTYPES	TypeII 24hr
15	5.2000	Synthetic Curve	SCSTYPES	TypeII 24hr
25	5.7000	Synthetic Curve	SCSTYPES	TypeII 24hr
100	7.2000	Synthetic Curve	SCSTYPES	TypeII 24hr

ICPM CALCULATION TOLERANCES

Target Convergence= .100 cfs +/-
Max. Iterations = 35 loops
ICPM Time Step = .1000 hrs
Output Time Step = .1000 hrs
ICPM Ending Time = 24.0000 hrs

MASTER NETWORK SUMMARY
SCS Unit Hydrograph Method

(*Node=Outfall; +Node=Diversion;)
(Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

Node ID	Type	Return Event	HYG Vol ac-ft	Trun	Qpeak hrs	Qpeak cfs	Max WSEL ft	Max Pond Storage ac-ft
BYPASS-DEVELOPED	AREA	2	.220		12.1000	2.27		
BYPASS-DEVELOPED	AREA	15	.486		12.1000	5.54		
BYPASS-DEVELOPED	AREA	25	.573		12.1000	6.60		
BYPASS-DEVELOPED	AREA	100	.850		12.1000	9.94		
EX LAKE #1	IN POND	2	1.301		12.4000	8.80		
EX LAKE #1	IN POND	15	2.975		12.3000	22.78		
EX LAKE #1	IN POND	25	3.530		12.3000	27.46		
EX LAKE #1	IN POND	100	5.308		12.3000	42.35		
EX LAKE #1	OUT POND	2	1.301		13.2000	2.94	551.51	.366
EX LAKE #1	OUT POND	15	2.975		13.3000	5.34	552.02	1.146
EX LAKE #1	OUT POND	25	3.530		13.3000	5.95	552.15	1.426
EX LAKE #1	OUT POND	100	5.308		13.5000	7.38	552.60	2.387

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Name.... Watershed
File.... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW

MASTER NETWORK SUMMARY
SCS Unit Hydrograph Method

(*Node=Outfall; +Node=Diversion;)
(Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

Node ID	Type	Return Event	HYG Vol ac-ft	Trun	Qpeak hrs	Qpeak cfs	Max WSEL ft	Max Pond Storage ac-ft
EX-64K	AREA	2	1.301		12.4000	8.80		
EX-64K	AREA	15	2.975		12.3000	22.78		
EX-64K	AREA	25	3.530		12.3000	27.46		
EX-64K	AREA	100	5.308		12.3000	42.35		
EX-K40	AREA	2	.850		12.3000	6.87		
EX-K40	AREA	15	1.814		12.3000	15.61		
EX-K40	AREA	25	2.126		12.3000	18.40		
EX-K40	AREA	100	3.112		12.3000	27.14		
EX64K-3	AREA	2	.517		12.3000	3.50		
EX64K-3	AREA	15	1.254		12.3000	10.13		
EX64K-3	AREA	25	1.503		12.3000	12.37		
EX64K-3	AREA	100	2.311		12.3000	19.58		
1	JCT	2	8.461		12.9000	29.41		
J1	JCT	15	17.347		12.7000	60.10		
J1	JCT	25	20.194		12.7000	69.85		
J1	JCT	100	29.141		12.7000	99.72		
J2	JCT	2	1.817		12.4000	5.44		
J2	JCT	15	4.229		12.3000	13.51		
J2	JCT	25	5.033		12.3000	16.18		
J2	JCT	100	7.619		12.3000	24.61		
K-B LAKE	POND	2	15.823		12.4000	79.54		
K-B LAKE	POND	15	29.276		12.4000	143.10		
K-B LAKE	POND	25	33.473		12.4000	162.47		
K-B LAKE	POND	100	46.440		12.4000	221.47		
K-B LAKE	OUT POND	2	12.824		14.3000	20.21	528.55	7.246
K-B LAKE	OUT POND	15	24.970		13.7000	53.02	530.17	11.837
K-B LAKE	OUT POND	25	28.784		13.5000	71.81	530.42	12.569
K-B LAKE	OUT POND	100	40.734		13.2000	128.78	530.98	14.137

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MASTER NETWORK SUMMARY
SCS Unit Hydrograph Method

(*Node=Outfall; +Node=Diversion;)
(Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

Node ID	Type	Return Event	HYG Vol ac-ft	Trun	Qpeak hrs	Qpeak cfs	Max WSEL ft	Max Pond Storage ac-ft
KELLEN-BECK	AREA	2	7.653		12.4000	54.56		
KELLEN-BECK	AREA	15	12.437		12.4000	86.91		
KELLEN-BECK	AREA	25	13.859		12.4000	96.35		
KELLEN-BECK	AREA	100	18.148		12.4000	124.54		
*NET-OUT	JCT	2	14.303		14.4000	21.50		
*NET-OUT	JCT	15	27.933		14.0000	54.40		
*NET-OUT	JCT	25	32.157		13.8000	71.87		
*NET-OUT	JCT	100	45.619		13.4000	130.98		
OFFSITE	AREA	2	5.793		13.0000	23.01		
OFFSITE	AREA	15	11.304		13.0000	46.62		
OFFSITE	AREA	25	13.035		13.0000	53.96		
FFSITE	AREA	100	18.411		13.0000	76.55		
SOUTH LAKE	POND	2	14.433		14.1000	21.49		
SOUTH LAKE	POND	15	27.951		13.7000	55.80		
SOUTH LAKE	POND	25	32.189		13.5000	75.42		
SOUTH LAKE	POND	100	45.441		13.1000	135.90		
SOUTH LAKE	OUT POND	2	14.053		14.4000	21.31	522.91	1.411
SOUTH LAKE	OUT POND	15	27.400		14.0000	53.98	523.72	2.009
SOUTH LAKE	OUT POND	25	31.532		13.8000	71.34	524.09	2.280
SOUTH LAKE	OUT POND	100	44.703		13.4000	130.07	524.91	2.884
SOUTHERNSIDE	AREA	2	1.622		12.2000	15.17		
SOUTHERNSIDE	AREA	15	3.003		12.2000	28.42		
SOUTHERNSIDE	AREA	25	3.429		12.2000	32.44		
SOUTHERNSIDE	AREA	100	4.739		12.2000	44.63		

File.... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Title... 64K - EXISTING TIME OF CONCENTRATION

TIME OF CONCENTRATION CALCULATOR

64K - EXISTING TIME OF CONCENTRATION

Segment #1: Tc: TR-55 Sheet
Description: SEGMENT 'A'

Mannings n	.2400	
Hydraulic Length	300.00	ft
2yr, 24hr P	3.5000	in
Slope	.043300	ft/ft
Avg.Velocity	.21	ft/sec

Segment #1 Time: .4021 hrs

Segment #2: Tc: SCS Lag
Description: SEGMENT 'B'

Hydraulic Length	725.00	ft
Runoff CN	67	
Slope	.035900	ft/ft
Avg.Velocity	.64	ft/sec

Segment #2 Time: .3123 hrs

Total Tc: .7144 hrs

Type.... Tc Calcs
Name.... 64K-3

File.... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Title... 64K - EXISTING TIME OF CONCENTRATION

::
TIME OF CONCENTRATION CALCULATOR
::

64K - EXISTING TIME OF CONCENTRATION

Segment #1: Tc: TR-55 Sheet
Description: SEGMENT 'A'

Mannings n	.2400	
Hydraulic Length	300.00	ft
2yr, 24hr P	3.5000	in
Slope	.040000	ft/ft
Avg.Velocity	.20	ft/sec

Segment #1 Time: .4151 hrs

Segment #2: Tc: SCS Lag
Description: SEGMENT 'B'

Hydraulic Length	600.00	ft
Runoff CN	64	
Slope	.063300	ft/ft
Avg.Velocity	.76	ft/sec

Segment #2 Time: .2186 hrs

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Total Tc: .6337 hrs
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File.... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Title... SOUTHERNSIDE - DEVELOPED Tc

::
TIME OF CONCENTRATION CALCULATOR
::

SOUTHERNSIDE - DEVELOPED Tc

Segment #1: Tc: TR-55 Sheet
Description: SHEET FLOW GRASS

Mannings n	.2400	
Hydraulic Length	300.00	ft
2yr, 24hr P	3.5000	in
Slope	.020000	ft/ft
Avg.Velocity	.15	ft/sec

Segment #1 Time: .5477 hrs

Segment #2: Tc: TR-55 Channel
Description: STORM SEWER SYSTEM

Flow Area	2.5900	sq.ft
Wetted Perimeter	4.28	ft
Hydraulic Radius	.61	ft
Slope	.020000	ft/ft
Mannings n	.0130	
Hydraulic Length	245.00	ft
Avg.Velocity	11.60	ft/sec

Segment #2 Time: .0059 hrs

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Total Tc: .5535 hrs
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File.... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Title... AREA VI - DEVELOPED Tc

::
TIME OF CONCENTRATION CALCULATOR
::

AREA VI - DEVELOPED Tc

Segment #1: Tc: TR-55 Sheet
Description: SHEET FLOW (GRASS)

Mannings n	.2400	
Hydraulic Length	300.00	ft
2yr, 24hr P	3.5000	in
Slope	.050000	ft/ft
Avg.Velocity	.22	ft/sec

Segment #1 Time: .3796 hrs

Segment #2: Tc: TR-55 Shallow
Description: GRASS

Hydraulic Length	150.00	ft
Slope	.050000	ft/ft
Unpaved		
Avg.Velocity	3.61	ft/sec

Segment #2 Time: .0115 hrs

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Total Tc: .3912 hrs
==========

File.... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Title... K40 - EXISTING TIME OF CONCENTRATION

::
TIME OF CONCENTRATION CALCULATOR
::

K40 - EXISTING TIME OF CONCENTRATION

Segment #1: Tc: TR-55 Sheet
Description: SEGMENT 'A'

Mannings n	.2400	
Hydraulic Length	300.00	ft
2yr, 24hr P	3.5000	in
Slope	.050000	ft/ft
Avg.Velocity	.22	ft/sec

Segment #1 Time: .3796 hrs

Segment #2: Tc: SCS Lag
Description: SEGMENT 'B'

Hydraulic Length	665.00	ft
Runoff CN	71	
Slope	.045000	ft/ft
Avg.Velocity	.79	ft/sec

Segment #2 Time: .2339 hrs

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Total Tc: .6135 hrs
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File.... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Title... KB-DEVELOPED Tc

::
TIME OF CONCENTRATION CALCULATOR
::

KB-DEVELOPED Tc

Segment #1: Tc: TR-55 Channel
Description: SEGMENT 'C' (SEWER SYSTEM)

Flow Area	3.1400	sq.ft
Wetted Perimeter	6.28	ft
Hydraulic Radius	.50	ft
Slope	.010000	ft/ft
Mannings n	.0130	
Hydraulic Length	875.00	ft

Avg.Velocity 7.22 ft/sec

Segment #1 Time: .0337 hrs

Segment #2: Tc: TR-55 Sheet
Description: SEGMENT 'A' (GRASS)

Mannings n	.2400	
Hydraulic Length	300.00	ft
2yr, 24hr P	3.5000	in
Slope	.010000	ft/ft

Avg.Velocity .12 ft/sec

Segment #2 Time: .7227 hrs

Segment #3: Tc: TR-55 Shallow
Description: SEGMENT 'B'

Hydraulic Length	500.00	ft
Slope	.010000	ft/ft
Paved		

Avg.Velocity 2.03 ft/sec

Segment #3 Time: .0683 hrs

Type.... Tc Calcs
Name.... KB-DEVELOPED

File.... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Title... KB-DEVELOPED Tc

Total Tc:	.8246 hrs

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::
TIME OF CONCENTRATION CALCULATOR
::

OFFSITE Tc

Segment #1: Tc: TR-55 Sheet
Description: SEGMENT 'A'

Mannings n	.2400	
Hydraulic Length	300.00	ft
2yr, 24hr P	3.5000	in
Slope	.010000	ft/ft

Avg.Velocity .12 ft/sec

Segment #1 Time: .7227 hrs

Segment #2: Tc: TR-55 Shallow
Description: SEGMENT 'B'

Hydraulic Length	750.00	ft
Slope	.005300	ft/ft
Unpaved		

Avg.Velocity 1.17 ft/sec

Segment #2 Time: .1774 hrs

Segment #3: Tc: SCS Lag
Description: SEGMENT 'C'

Hydraulic Length	1650.00	ft
Runoff CN	77	
Slope	.010000	ft/ft

Avg.Velocity .53 ft/sec

Segment #3 Time: .8658 hrs

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Total Tc: 1.7659 hrs
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Type.... Runoff CN-Area
Name.... 64K-EXISTING

File.... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Title... 64K - EXISTING RUNOFF CN

RUNOFF CURVE NUMBER DATA

64K - EXISTING RUNOFF CN

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
PASTURE (SOIL GROUP 'C')	74	8.250			74.00
PASTURE (SOIL GROUP 'B')	61	10.110			61.00
COMPOSITE AREA & WEIGHTED CN --->		18.360			66.84 (67)

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Type.... Runoff CN-Area
Name.... 64K-EXISTING-3

File.... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Title... 64K-BYPASS AREA - EXISTING RUNOFF CN

RUNOFF CURVE NUMBER DATA

64K-BYPASS AREA - EXISTING RUNOFF CN

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
PASTURE (SOIL GROUP 'C')	74	1.760			74.00
PASTURE (SOIL GROUP 'B')	61	7.040			61.00
COMPOSITE AREA & WEIGHTED CN --->		8.800			63.60 (64)

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File.... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Title... SOUTHERNSIDE - DEVELOPED RUNOFF CN

RUNOFF CURVE NUMBER DATA

SOUTHERNSIDE - DEVELOPED RUNOFF CN

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
PAVEMENT/ROOF	98	5.350			98.00
GRASS (SOIL TYPE 'B')	61	4.050			61.00
GRASS (SOIL TYPE 'C')	74	1.990			74.00
COMPOSITE AREA & WEIGHTED CN --->		11.390			80.65 (81)

File.... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Title... AREA VI - DEVELOPED RUNOFF CN

RUNOFF CURVE NUMBER DATA

AREA VI - DEVELOPED RUNOFF CN

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
PAVEMENT/ROOF	98	.520			98.00
GRASS (SOIL GROUP 'B')	61	2.050			61.00
GRASS (SOIL GROUP 'C')	74	.200			74.00
COMPOSITE AREA & WEIGHTED CN --->		2.770			68.88 (69)

File.... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Title... K40 - EXISTING RUNOFF CN

RUNOFF CURVE NUMBER DATA

K40 - EXISTING RUNOFF CN

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
PASTURE (SOIL GROUP 'C')	74	7.190			74.00
PASTURE (SOIL GROUP 'B')	61	2.400			61.00
COMPOSITE AREA & WEIGHTED CN --->		9.590			70.75 (71)

S/N: 721701406A81 J R GRIMES CONSULTING
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File.... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Title... KELLENBECK - DEVELOPED

RUNOFF CURVE NUMBER DATA

KELLENBECK - DEVELOPED

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
GRASS (SOIL GROUP 'B')	61	3.480			61.00
GRASS (SOIL GROUP 'C')	74	3.480			74.00
PAVEMENT/ROOF (80% COVERAGE)	98	27.850			98.00
COMPOSITE AREA & WEIGHTED CN --->		34.810			91.90 (92)

File.... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Title... OFFSITE DRAINAGE AREA (BUSCH WILDLIFE PRESERVE)

RUNOFF CURVE NUMBER DATA

OFFSITE DRAINAGE AREA (BUSCH WILDLIFE PRESERVE)

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C	%UC	Adjusted CN
EXISTING WOODS(SOIL GOUP 'D')	77	48.600			77.00
COMPOSITE AREA & WEIGHTED CN --->		48.600			77.00 (77)

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 24.0000 hrs Rain Depth = 3.5000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - BYPASS-DEVELOPED 2
Tc = .3912 hrs
Drainage Area = 2.770 acres Runoff CN= 69

==========
Computational Time Increment = .05216 hrs
Computed Peak Time = 12.1521 hrs
Computed Peak Flow = 2.36 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.1000 hrs
Peak Flow, Interpolated Output = 2.27 cfs
WARNING: The difference between calculated peak flow
and interpolated peak flow is greater than 1.50%
==========

DRAINAGE AREA

ID:AREAVIDEVELOPED
CN = 69
Area = 2.770 acres
S = 4.4928 in
0.2S = .8986 in

Cumulative Runoff

.9540 in
.220 ac-ft

HYG Volume... .220 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .39116 hrs (ID: AREAVIDEVELOPED)
Computational Incr, Tm = .05216 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 8.02 cfs
Unit peak time Tp = .26078 hrs
Unit receding limb, Tr = 1.04310 hrs
Total unit time, Tb = 1.30388 hrs

Name.... BYPASS-DEVELOPED Tag: 2 Event: 2 yr
File.... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Title... AREA VI - DEVELOPED RUNOFF
Storm... TypeII 24hr Tag: 2

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 24.0000 hrs Rain Depth = 3.5000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - BYPASS-DEVELOPED 2
Tc = .3912 hrs
Drainage Area = 2.770 acres Runoff CN= 69
Calc.Increment= .05216 hrs Out.Incr.= .1000 hrs
HYG Volume = .220 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
11.3000	.00	.00	.01	.02	.07
11.8000	.23	.68	1.53	2.27	2.23
12.3000	1.71	1.23	.93	.73	.59
12.8000	.49	.43	.39	.35	.32
13.3000	.30	.29	.27	.26	.25
13.8000	.24	.23	.22	.21	.20
14.3000	.19	.19	.18	.18	.18
14.8000	.17	.17	.17	.16	.16
15.3000	.16	.15	.15	.15	.14
15.8000	.14	.14	.13	.13	.13
16.3000	.12	.12	.12	.12	.12
16.8000	.12	.12	.12	.11	.11
17.3000	.11	.11	.11	.11	.11
17.8000	.11	.10	.10	.10	.10
18.3000	.10	.10	.10	.10	.09
18.8000	.09	.09	.09	.09	.09
19.3000	.09	.09	.08	.08	.08
19.8000	.08	.08	.08	.08	.08
20.3000	.07	.07	.07	.07	.07
20.8000	.07	.07	.07	.07	.07
21.3000	.07	.07	.07	.07	.07
21.8000	.07	.07	.07	.07	.07
22.3000	.07	.07	.07	.07	.07
22.8000	.07	.07	.07	.07	.07
23.3000	.07	.07	.07	.07	.07
23.8000	.07	.07	.07	.06	.05
24.3000	.03	.02	.01	.00	.00
24.8000	.00	.00			

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 15 year storm
Duration = 24.0000 hrs Rain Depth = 5.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - BYPASS-DEVELOPED 15
Tc = .3912 hrs
Drainage Area = 2.770 acres Runoff CN= 69

==========
Computational Time Increment = .05216 hrs
Computed Peak Time = 12.1521 hrs
Computed Peak Flow = 5.58 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.1000 hrs
Peak Flow, Interpolated Output = 5.54 cfs
==========

DRAINAGE AREA

ID:AREAVIDEVELOPED
CN = 69
Area = 2.770 acres
S = 4.4928 in
0.2S = .8986 in

Cumulative Runoff

2.1039 in
.486 ac-ft

HYG Volume... .486 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .39116 hrs (ID: AREAVIDEVELOPED)
Computational Incr, Tm = .05216 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 8.02 cfs
Unit peak time Tp = .26078 hrs
Unit receding limb, Tr = 1.04310 hrs
Total unit time, Tb = 1.30388 hrs

Type.... SCS Unit Hyd. (HYG output)
Name.... BYPASS-DEVELOPED Tag: 15
File.... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Storm... TypeII 24hr Tag: 15

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 15 year storm
Duration = 24.0000 hrs Rain Depth = 5.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - BYPASS-DEVELOPED 15
Tc = .3912 hrs
Drainage Area = 2.770 acres Runoff CN= 69
Calc.Increment= .05216 hrs Out.Incr.= .1000 hrs
HYG Volume = .486 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
9.9000	.00	.00	.00	.01	.01
10.4000	.02	.03	.03	.04	.05
10.9000	.07	.08	.10	.12	.14
11.4000	.18	.22	.29	.50	1.03
11.9000	2.20	4.12	5.54	5.18	3.85
12.4000	2.70	2.00	1.54	1.22	1.01
12.9000	.87	.77	.70	.64	.60
13.4000	.57	.54	.51	.48	.46
13.9000	.44	.42	.40	.39	.37
14.4000	.36	.35	.35	.34	.33
14.9000	.33	.32	.31	.31	.30
15.4000	.29	.29	.28	.27	.27
15.9000	.26	.25	.25	.24	.24
16.4000	.23	.23	.23	.22	.22
16.9000	.22	.22	.22	.21	.21
17.4000	.21	.21	.20	.20	.20
17.9000	.20	.19	.19	.19	.19
18.4000	.18	.18	.18	.18	.17
18.9000	.17	.17	.17	.16	.16
19.4000	.16	.16	.15	.15	.15
19.9000	.15	.14	.14	.14	.14
20.4000	.14	.14	.14	.13	.13
20.9000	.13	.13	.13	.13	.13
21.4000	.13	.13	.13	.13	.13
21.9000	.13	.13	.13	.13	.13
22.4000	.13	.13	.13	.13	.13
22.9000	.12	.12	.12	.12	.12
23.4000	.12	.12	.12	.12	.12
23.9000	.12	.12	.11	.09	.05
24.4000	.03	.02	.01	.00	.00
24.9000	.00	.00			

Type.... SCS Unit Hyd. Summary
Name.... BYPASS-DEVELOPED Tag: 25
File.... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Storm... TypeII 24hr Tag: 25

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm
Duration = 24.0000 hrs Rain Depth = 5.7000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - BYPASS-DEVELOPED 25
Tc = .3912 hrs
Drainage Area = 2.770 acres Runoff CN= 69

==========
Computational Time Increment = .05216 hrs
Computed Peak Time = 12.1521 hrs
Computed Peak Flow = 6.61 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.1000 hrs
Peak Flow, Interpolated Output = 6.60 cfs
==========

DRAINAGE AREA

ID:AREAVIDEVELOPED
CN = 69
Area = 2.770 acres
S = 4.4928 in
0.2S = .8986 in

Cumulative Runoff

2.4805 in
.573 ac-ft

HYG Volume... .573 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .39116 hrs (ID: AREAVIDEVELOPED)
Computational Incr, Tm = .05216 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 8.02 cfs
Unit peak time Tp = .26078 hrs
Unit receding limb, Tr = 1.04310 hrs
Total unit time, Tb = 1.30388 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm
Duration = 24.0000 hrs Rain Depth = 5.7000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - BYPASS-DEVELOPED 25
Tc = .3912 hrs
Drainage Area = 2.770 acres Runoff CN= 69
Calc.Increment= .05216 hrs Out.Incr.= .1000 hrs
HYG Volume = .573 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
9.5000	.00	.00	.00	.01	.01
10.0000	.02	.02	.03	.04	.05
10.5000	.05	.07	.08	.09	.11
11.0000	.13	.15	.17	.21	.25
11.5000	.30	.39	.66	1.31	2.72
12.0000	4.97	6.60	6.13	4.54	3.17
12.5000	2.34	1.79	1.42	1.17	1.01
13.0000	.89	.81	.74	.69	.65
13.5000	.62	.58	.56	.53	.51
14.0000	.48	.46	.44	.43	.41
14.5000	.40	.40	.39	.38	.37
15.0000	.37	.36	.35	.34	.34
15.5000	.33	.32	.31	.31	.30
16.0000	.29	.28	.28	.27	.27
16.5000	.26	.26	.26	.25	.25
17.0000	.25	.25	.24	.24	.24
17.5000	.23	.23	.23	.23	.22
18.0000	.22	.22	.22	.21	.21
18.5000	.21	.20	.20	.20	.20
19.0000	.19	.19	.19	.18	.18
19.5000	.18	.18	.17	.17	.17
20.0000	.16	.16	.16	.16	.16
20.5000	.16	.15	.15	.15	.15
21.0000	.15	.15	.15	.15	.15
21.5000	.15	.15	.15	.15	.15
22.0000	.15	.15	.15	.15	.14
22.5000	.14	.14	.14	.14	.14
23.0000	.14	.14	.14	.14	.14
23.5000	.14	.14	.14	.14	.14
24.0000	.14	.13	.10	.06	.03
24.5000	.02	.01	.00	.00	.00
25.0000	.00				

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 7.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - BYPASS-DEVELOPED 100
Tc = .3912 hrs
Drainage Area = 2.770 acres Runoff CN= 69

==========
Computational Time Increment = .05216 hrs
Computed Peak Time = 12.1000 hrs
Computed Peak Flow = 9.94 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.1000 hrs
Peak Flow, Interpolated Output = 9.94 cfs
==========

DRAINAGE AREA

ID:AREAVIDEVELOPED
CN = 69
Area = 2.770 acres
S = 4.4928 in
0.2S = .8986 in

Cumulative Runoff

3.6787 in
.849 ac-ft

HYG Volume... .850 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .39116 hrs (ID: AREAVIDEVELOPED)
Computational Incr, Tm = .05216 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 8.02 cfs
Unit peak time Tp = .26078 hrs
Unit receding limb, Tr = 1.04310 hrs
Total unit time, Tb = 1.30388 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 7.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - BYPASS-DEVELOPED 100
Tc = .3912 hrs
Drainage Area = 2.770 acres Runoff CN= 69
Calc.Increment= .05216 hrs Out.Incr.= .1000 hrs
HYG Volume = .850 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
8.4000	.00	.00	.01	.01	.01
8.9000	.02	.02	.03	.04	.04
9.4000	.05	.05	.06	.07	.07
9.9000	.08	.09	.10	.12	.13
10.4000	.14	.16	.18	.20	.23
10.9000	.26	.29	.32	.37	.42
11.4000	.49	.58	.73	1.17	2.22
11.9000	4.39	7.70	9.94	9.09	6.67
12.4000	4.62	3.38	2.57	2.03	1.66
12.9000	1.43	1.26	1.14	1.04	.97
13.4000	.91	.86	.82	.78	.74
13.9000	.71	.67	.64	.62	.59
14.4000	.58	.56	.55	.54	.53
14.9000	.52	.51	.50	.49	.48
15.4000	.47	.45	.44	.43	.42
15.9000	.41	.40	.39	.38	.37
16.4000	.37	.36	.36	.35	.35
16.9000	.35	.34	.34	.33	.33
17.4000	.33	.32	.32	.32	.31
17.9000	.31	.30	.30	.30	.29
18.4000	.29	.28	.28	.28	.27
18.9000	.27	.27	.26	.26	.25
19.4000	.25	.25	.24	.24	.23
19.9000	.23	.23	.22	.22	.22
20.4000	.21	.21	.21	.21	.21
20.9000	.21	.21	.21	.21	.21
21.4000	.21	.20	.20	.20	.20
21.9000	.20	.20	.20	.20	.20
22.4000	.20	.20	.20	.20	.19
22.9000	.19	.19	.19	.19	.19
23.4000	.19	.19	.19	.19	.19
23.9000	.19	.18	.17	.13	.08
24.4000	.04	.02	.01	.01	.00
24.9000	.00	.00			

Name.... EX-64K Tag: 2 Event: 2 yr
File.... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Title... 64K PARCEL
Storm... TypeII 24hr Tag: 2

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 24.0000 hrs Rain Depth = 3.5000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX-64K 2
Tc = .7144 hrs
Drainage Area = 18.360 acres Runoff CN= 67

==========
Computational Time Increment = .09526 hrs
Computed Peak Time = 12.3836 hrs
Computed Peak Flow = 8.89 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.4000 hrs
Peak Flow, Interpolated Output = 8.80 cfs
==========

DRAINAGE AREA

ID:64K-EXISTING
CN = 67
Area = 18.360 acres
S = 4.9254 in
0.2S = .9851 in

Cumulative Runoff

.8501 in
1.301 ac-ft

HYG Volume... 1.301 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .71444 hrs (ID: 64K)
Computational Incr, Tm = .09526 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 29.12 cfs
Unit peak time Tp = .47629 hrs
Unit receding limb, Tr = 1.90517 hrs
Total unit time, Tb = 2.38146 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 24.0000 hrs Rain Depth = 3.5000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX-64K 2
Tc = .7144 hrs
Drainage Area = 18.360 acres Runoff CN= 67
Calc.Increment= .09526 hrs Out.Incr.= .1000 hrs
HYG Volume = 1.301 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
11.5000	.00	.01	.06	.29	1.03
12.0000	2.64	5.02	7.35	8.64	8.80
12.5000	8.14	7.02	5.87	4.96	4.25
13.0000	3.67	3.21	2.85	2.56	2.32
13.5000	2.13	1.97	1.84	1.73	1.63
14.0000	1.54	1.46	1.38	1.32	1.27
14.5000	1.22	1.18	1.15	1.13	1.10
15.0000	1.08	1.06	1.03	1.01	.99
15.5000	.97	.95	.93	.91	.89
16.0000	.87	.85	.83	.82	.80
16.5000	.78	.77	.76	.75	.74
17.0000	.73	.72	.72	.71	.70
17.5000	.69	.69	.68	.67	.66
18.0000	.66	.65	.64	.63	.63
18.5000	.62	.61	.60	.60	.59
19.0000	.58	.57	.57	.56	.55
19.5000	.54	.53	.53	.52	.51
20.0000	.50	.49	.49	.48	.47
20.5000	.47	.46	.46	.46	.45
21.0000	.45	.45	.45	.45	.45
21.5000	.44	.44	.44	.44	.44
22.0000	.44	.44	.43	.43	.43
22.5000	.43	.43	.43	.43	.42
23.0000	.42	.42	.42	.42	.42
23.5000	.42	.41	.41	.41	.41
24.0000	.41	.40	.38	.33	.27
24.5000	.21	.15	.11	.08	.05
25.0000	.04	.03	.02	.01	.01
25.5000	.01	.00	.00	.00	.00
26.0000	.00				

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 15 year storm
Duration = 24.0000 hrs Rain Depth = 5.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX-64K 15
Tc = .7144 hrs
Drainage Area = 18.360 acres Runoff CN= 67

==========
Computational Time Increment = .09526 hrs
Computed Peak Time = 12.2883 hrs
Computed Peak Flow = 22.79 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.3000 hrs
Peak Flow, Interpolated Output = 22.78 cfs
==========

DRAINAGE AREA

ID:64K-EXISTING
CN = 67
Area = 18.360 acres
S = 4.9254 in
0.2S = .9851 in

Cumulative Runoff

1.9437 in
2.974 ac-ft

HYG Volume... 2.975 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .71444 hrs (ID: 64K)
Computational Incr, Tm = .09526 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 29.12 cfs
Unit peak time Tp = .47629 hrs
Unit receding limb, Tr = 1.90517 hrs
Total unit time, Tb = 2.38146 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 15 year storm
Duration = 24.0000 hrs Rain Depth = 5.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX-64K 15
Tc = .7144 hrs
Drainage Area = 18.360 acres Runoff CN= 67
Calc.Increment= .09526 hrs Out.Incr.= .1000 hrs
HYG Volume = 2.975 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
10.3000	.00	.00	.01	.02	.04
10.8000	.07	.11	.17	.23	.31
11.3000	.41	.53	.68	.91	1.38
11.8000	2.47	4.95	9.39	15.26	20.42
12.3000	22.78	22.34	20.06	16.87	13.82
12.8000	11.46	9.64	8.20	7.06	6.17
13.3000	5.47	4.92	4.47	4.10	3.80
13.8000	3.54	3.32	3.12	2.94	2.78
14.3000	2.64	2.53	2.44	2.36	2.29
14.8000	2.24	2.18	2.13	2.09	2.04
15.3000	2.00	1.96	1.92	1.88	1.84
15.8000	1.79	1.75	1.71	1.67	1.63
16.3000	1.59	1.56	1.53	1.50	1.48
16.8000	1.46	1.44	1.42	1.40	1.39
17.3000	1.37	1.36	1.34	1.33	1.31
17.8000	1.30	1.28	1.27	1.25	1.24
18.3000	1.22	1.21	1.19	1.18	1.16
18.8000	1.15	1.13	1.11	1.10	1.08
19.3000	1.07	1.05	1.04	1.02	1.01
19.8000	.99	.97	.96	.94	.93
20.3000	.91	.90	.89	.88	.87
20.8000	.87	.86	.86	.85	.85
21.3000	.85	.84	.84	.84	.84
21.8000	.83	.83	.83	.82	.82
22.3000	.82	.82	.81	.81	.81
22.8000	.80	.80	.80	.80	.79
23.3000	.79	.79	.78	.78	.78
23.8000	.77	.77	.77	.75	.71
24.3000	.62	.51	.39	.29	.20
24.8000	.14	.10	.07	.05	.04
25.3000	.02	.02	.01	.01	.01
25.8000	.00	.00	.00	.00	

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm
Duration = 24.0000 hrs Rain Depth = 5.7000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX-64K 25
Tc = .7144 hrs
Drainage Area = 18.360 acres Runoff CN= 67

==========
Computational Time Increment = .09526 hrs
Computed Peak Time = 12.2883 hrs
Computed Peak Flow = 27.49 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.3000 hrs
Peak Flow, Interpolated Output = 27.46 cfs
==========

DRAINAGE AREA

ID:64K-EXISTING
CN = 67
Area = 18.360 acres
S = 4.9254 in
0.2S = .9851 in

Cumulative Runoff

2.3060 in
3.528 ac-ft

HYG Volume... 3.530 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .71444 hrs (ID: 64K)
Computational Incr, Tm = .09526 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 29.12 cfs
Unit peak time Tp = .47629 hrs
Unit receding limb, Tr = 1.90517 hrs
Total unit time, Tb = 2.38146 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm
Duration = 24.0000 hrs Rain Depth = 5.7000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX-64K 25
Tc = .7144 hrs
Drainage Area = 18.360 acres Runoff CN= 67
Calc.Increment= .09526 hrs Out.Incr.= .1000 hrs
HYG Volume = 3.530 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
9.9000	.00	.00	.01	.02	.04
10.4000	.06	.09	.13	.18	.24
10.9000	.30	.38	.47	.58	.70
11.4000	.86	1.06	1.36	1.96	3.33
11.9000	6.38	11.75	18.74	24.79	27.46
12.4000	26.79	23.95	20.07	16.39	13.55
12.9000	11.37	9.64	8.28	7.22	6.39
13.4000	5.73	5.20	4.77	4.41	4.11
13.9000	3.85	3.61	3.40	3.21	3.05
14.4000	2.92	2.82	2.72	2.65	2.58
14.9000	2.52	2.46	2.41	2.36	2.31
15.4000	2.26	2.21	2.16	2.11	2.06
15.9000	2.02	1.97	1.92	1.87	1.83
16.4000	1.79	1.75	1.72	1.70	1.67
16.9000	1.65	1.63	1.61	1.59	1.57
17.4000	1.56	1.54	1.52	1.50	1.49
17.9000	1.47	1.45	1.44	1.42	1.40
18.4000	1.38	1.37	1.35	1.33	1.31
18.9000	1.29	1.28	1.26	1.24	1.22
19.4000	1.21	1.19	1.17	1.15	1.13
19.9000	1.11	1.10	1.08	1.06	1.04
20.4000	1.03	1.02	1.01	1.00	.99
20.9000	.99	.98	.98	.97	.97
21.4000	.97	.96	.96	.96	.95
21.9000	.95	.95	.94	.94	.94
22.4000	.93	.93	.93	.92	.92
22.9000	.92	.91	.91	.91	.90
23.4000	.90	.89	.89	.89	.88
23.9000	.88	.88	.86	.81	.71
24.4000	.58	.45	.33	.23	.16
24.9000	.12	.08	.06	.04	.03
25.4000	.02	.01	.01	.01	.00
25.9000	.00	.00	.00		

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 7.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX-64K 100
Tc = .7144 hrs
Drainage Area = 18.360 acres Runoff CN= 67

==========
Computational Time Increment = .09526 hrs
Computed Peak Time = 12.2883 hrs
Computed Peak Flow = 42.46 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.3000 hrs
Peak Flow, Interpolated Output = 42.35 cfs
==========

DRAINAGE AREA

ID:64K-EXISTING
CN = 67
Area = 18.360 acres
S = 4.9254 in
0.2S = .9851 in

Cumulative Runoff

3.4672 in
5.305 ac-ft

HYG Volume... 5.308 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .71444 hrs (ID: 64K)
Computational Incr, Tm = .09526 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 29.12 cfs
Unit peak time Tp = .47629 hrs
Unit receding limb, Tr = 1.90517 hrs
Total unit time, Tb = 2.38146 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 7.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX-64K 100
Tc = .7144 hrs
Drainage Area = 18.360 acres Runoff CN= 67
Calc.Increment= .09526 hrs Out.Incr.= .1000 hrs
HYG Volume = 5.308 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
8.8000	.00	.00	.01	.02	.04
9.3000	.06	.09	.12	.15	.18
9.8000	.22	.26	.30	.35	.41
10.3000	.47	.54	.62	.71	.80
10.8000	.92	1.04	1.19	1.35	1.54
11.3000	1.77	2.05	2.39	2.92	3.95
11.8000	6.24	11.14	19.45	29.97	38.78
12.3000	42.35	40.89	36.23	30.14	24.46
12.8000	20.10	16.77	14.14	12.08	10.48
13.3000	9.23	8.25	7.46	6.82	6.29
13.8000	5.84	5.46	5.12	4.80	4.53
14.3000	4.30	4.12	3.97	3.83	3.72
14.8000	3.62	3.54	3.45	3.38	3.30
15.3000	3.23	3.16	3.09	3.02	2.96
15.8000	2.89	2.82	2.75	2.68	2.62
16.3000	2.55	2.50	2.45	2.40	2.36
16.8000	2.33	2.30	2.27	2.24	2.22
17.3000	2.19	2.17	2.14	2.12	2.09
17.8000	2.07	2.04	2.02	1.99	1.97
18.3000	1.94	1.92	1.89	1.87	1.84
18.8000	1.82	1.80	1.77	1.74	1.72
19.3000	1.69	1.67	1.64	1.62	1.59
19.8000	1.57	1.54	1.52	1.49	1.47
20.3000	1.44	1.42	1.41	1.39	1.38
20.8000	1.37	1.36	1.36	1.35	1.35
21.3000	1.34	1.33	1.33	1.32	1.32
21.8000	1.31	1.31	1.30	1.30	1.29
22.3000	1.29	1.29	1.28	1.28	1.27
22.8000	1.27	1.26	1.26	1.25	1.25
23.3000	1.24	1.24	1.23	1.23	1.22
23.8000	1.22	1.21	1.21	1.18	1.11
24.3000	.98	.80	.62	.45	.32

Type. . . SCS Unit Hyd. Summary
Name. . . . EX-K40 Tag: 2
File. . . . J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Title. . . EX. K40 SITE
Storm. . . TypeII 24hr Tag: 2

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 24.0000 hrs Rain Depth = 3.5000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX-K40 2
Tc = .6135 hrs
Drainage Area = 9.590 acres Runoff CN= 71

==========
Computational Time Increment = .08180 hrs
Computed Peak Time = 12.2702 hrs
Computed Peak Flow = 6.95 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.3000 hrs
Peak Flow, Interpolated Output = 6.87 cfs
==========

DRAINAGE AREA

ID:K40-EXISTING
CN = 71
Area = 9.590 acres
S = 4.0845 in
0.2S = .8169 in

Cumulative Runoff

1.0637 in
.850 ac-ft

HYG Volume... .850 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .61351 hrs (ID: K40)
Computational Incr, Tm = .08180 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 17.71 cfs
Unit peak time Tp = .40901 hrs
Unit receding limb, Tr = 1.63603 hrs
Total unit time, Tb = 2.04504 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 24.0000 hrs Rain Depth = 3.5000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX-K40 2
Tc = .6135 hrs
Drainage Area = 9.590 acres Runoff CN= 71
Calc.Increment= .08180 hrs Out.Incr.= .1000 hrs
HYG Volume = .850 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
11.1000	.00	.00	.01	.03	.06
11.6000	.11	.23	.58	1.45	3.02
12.1000	5.02	6.51	6.87	6.32	5.30
12.6000	4.25	3.47	2.87	2.41	2.06
13.1000	1.79	1.59	1.44	1.31	1.21
13.6000	1.13	1.05	.99	.93	.88
14.1000	.84	.81	.77	.74	.72
14.6000	.70	.68	.67	.66	.64
15.1000	.63	.62	.61	.59	.58
15.6000	.57	.56	.54	.53	.52
16.1000	.51	.49	.48	.47	.46
16.6000	.46	.45	.45	.44	.44
17.1000	.43	.43	.42	.42	.41
17.6000	.41	.40	.40	.39	.39
18.1000	.39	.38	.38	.37	.37
18.6000	.36	.36	.35	.35	.34
19.1000	.34	.33	.33	.32	.32
19.6000	.32	.31	.31	.30	.30
20.1000	.29	.29	.28	.28	.28
20.6000	.27	.27	.27	.27	.27
21.1000	.27	.27	.26	.26	.26
21.6000	.26	.26	.26	.26	.26
22.1000	.26	.26	.26	.26	.25
22.6000	.25	.25	.25	.25	.25
23.1000	.25	.25	.25	.25	.25
23.6000	.24	.24	.24	.24	.24
24.1000	.23	.21	.18	.14	.10
24.6000	.06	.04	.03	.02	.01
25.1000	.01	.01	.00	.00	.00
25.6000	.00				

Type. . . SCS Unit Hyd. Summary
Name. . . . EX-K40 Tag: 15
File. . . . J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Storm. . . TypeII 24hr Tag: 15

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 15 year storm
Duration = 24.0000 hrs Rain Depth = 5.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX-K40 15
Tc = .6135 hrs
Drainage Area = 9.590 acres Runoff CN= 71

==========
Computational Time Increment = .08180 hrs
Computed Peak Time = 12.2702 hrs
Computed Peak Flow = 15.92 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.3000 hrs
Peak Flow, Interpolated Output = 15.61 cfs
WARNING: The difference between calculated peak flow
and interpolated peak flow is greater than 1.50%
==========

DRAINAGE AREA

ID:K40-EXISTING
CN = 71
Area = 9.590 acres
S = 4.0845 in
0.2S = .8169 in

Cumulative Runoff

2.2688 in
1.813 ac-ft

HYG Volume... 1.814 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .61351 hrs (ID: K40)
Computational Incr, Tm = .08180 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 17.71 cfs
Unit peak time Tp = .40901 hrs
Unit receding limb, Tr = 1.63603 hrs
Total unit time, Tb = 2.04504 hrs

Name ... EX-K40 Tag: 15 Event: 15 yr
File ... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Storm... TypeII 24hr Tag: 15

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 15 year storm
Duration = 24.0000 hrs Rain Depth = 5.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX-K40 15
Tc = .6135 hrs
Drainage Area = 9.590 acres Runoff CN= 71
Calc.Increment= .08180 hrs Out.Incr.= .1000 hrs
HYG Volume = 1.814 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
9.5000	.00	.00	.01	.01	.02
10.0000	.04	.05	.07	.09	.11
10.5000	.13	.16	.19	.23	.27
11.0000	.32	.37	.44	.52	.62
11.5000	.74	.93	1.32	2.34	4.53
12.0000	8.17	12.44	15.31	15.61	14.00
12.5000	11.50	9.08	7.30	5.96	4.93
13.0000	4.15	3.58	3.15	2.82	2.55
13.5000	2.34	2.17	2.02	1.89	1.77
14.0000	1.68	1.60	1.53	1.46	1.41
14.5000	1.36	1.32	1.29	1.26	1.23
15.0000	1.20	1.18	1.15	1.13	1.11
15.5000	1.08	1.06	1.03	1.01	.99
16.0000	.96	.94	.91	.89	.87
16.5000	.86	.84	.83	.82	.81
17.0000	.80	.79	.78	.78	.77
17.5000	.76	.75	.74	.73	.72
18.0000	.71	.71	.70	.69	.68
18.5000	.67	.66	.65	.64	.64
19.0000	.63	.62	.61	.60	.59
19.5000	.58	.57	.56	.55	.55
20.0000	.54	.53	.52	.51	.50
20.5000	.50	.50	.49	.49	.49
21.0000	.48	.48	.48	.48	.48
21.5000	.48	.47	.47	.47	.47
22.0000	.47	.47	.46	.46	.46
22.5000	.46	.46	.46	.45	.45
23.0000	.45	.45	.45	.45	.44
23.5000	.44	.44	.44	.44	.43
24.0000	.43	.42	.38	.32	.24
24.5000	.17	.12	.08	.05	.03
25.0000	.02	.02	.01	.01	.00
25.5000	.00	.00	.00		

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm
Duration = 24.0000 hrs Rain Depth = 5.7000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX-K40 25
Tc = .6135 hrs
Drainage Area = 9.590 acres Runoff CN= 71

==========
Computational Time Increment = .08180 hrs
Computed Peak Time = 12.2702 hrs
Computed Peak Flow = 18.79 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.3000 hrs
Peak Flow, Interpolated Output = 18.40 cfs
WARNING: The difference between calculated peak flow
and interpolated peak flow is greater than 1.50%
==========

DRAINAGE AREA

ID:K40-EXISTING
CN = 71
Area = 9.590 acres
S = 4.0845 in
0.2S = .8169 in

Cumulative Runoff

2.6590 in
2.125 ac-ft

HYG Volume... 2.126 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .61351 hrs (ID: K40)
Computational Incr, Tm = .08180 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 17.71 cfs
Unit peak time Tp = .40901 hrs
Unit receding limb, Tr = 1.63603 hrs
Total unit time, Tb = 2.04504 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm
Duration = 24.0000 hrs Rain Depth = 5.7000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX-K40 25
Tc = .6135 hrs
Drainage Area = 9.590 acres Runoff CN= 71
Calc.Increment= .08180 hrs Out.Incr.= .1000 hrs
HYG Volume = 2.126 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
9.0000	.00	.00	.00	.01	.02
9.5000	.03	.04	.05	.07	.09
10.0000	.10	.12	.15	.17	.20
10.5000	.23	.27	.31	.36	.41
11.0000	.47	.54	.62	.72	.84
11.5000	1.00	1.23	1.71	2.95	5.58
12.0000	9.88	14.86	18.15	18.40	16.44
12.5000	13.46	10.59	8.50	6.93	5.72
13.0000	4.80	4.13	3.63	3.24	2.93
13.5000	2.69	2.49	2.32	2.16	2.03
14.0000	1.92	1.83	1.74	1.67	1.61
14.5000	1.55	1.51	1.47	1.43	1.40
15.0000	1.37	1.34	1.32	1.29	1.26
15.5000	1.23	1.21	1.18	1.15	1.12
16.0000	1.10	1.07	1.04	1.02	1.00
16.5000	.98	.96	.95	.94	.92
17.0000	.91	.90	.89	.88	.87
17.5000	.86	.85	.84	.83	.82
18.0000	.81	.80	.79	.78	.77
18.5000	.76	.75	.74	.73	.72
19.0000	.71	.70	.69	.68	.67
19.5000	.66	.65	.64	.63	.62
20.0000	.61	.60	.59	.58	.57
20.5000	.57	.56	.56	.55	.55
21.0000	.55	.55	.55	.54	.54
21.5000	.54	.54	.54	.53	.53
22.0000	.53	.53	.53	.52	.52
22.5000	.52	.52	.52	.51	.51
23.0000	.51	.51	.51	.50	.50
23.5000	.50	.50	.50	.49	.49
24.0000	.49	.47	.43	.36	.28
24.5000	.20	.13	.09	.06	.04
25.0000	.03	.02	.01	.01	.00
25.5000	.00	.00	.00	.00	

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 7.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX-K40 100
Tc = .6135 hrs
Drainage Area = 9.590 acres Runoff CN= 71

==========
Computational Time Increment = .08180 hrs
Computed Peak Time = 12.2702 hrs
Computed Peak Flow = 27.79 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.3000 hrs
Peak Flow, Interpolated Output = 27.14 cfs
WARNING: The difference between calculated peak flow and interpolated peak flow is greater than 1.50%
==========

DRAINAGE AREA

ID:K40-EXISTING
CN = 71
Area = 9.590 acres
S = 4.0845 in
0.2S = .8169 in

Cumulative Runoff

3.8924 in
3.111 ac-ft

HYG Volume... 3.112 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .61351 hrs (ID: K40)
Computational Incr, Tm = .08180 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 17.71 cfs
Unit peak time Tp = .40901 hrs
Unit receding limb, Tr = 1.63603 hrs
Total unit time, Tb = 2.04504 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 7.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX-K40 100
Tc = .6135 hrs
Drainage Area = 9.590 acres Runoff CN= 71
Calc.Increment= .08180 hrs Out.Incr.= .1000 hrs
HYG Volume = 3.112 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
7.9000	.00	.00	.01	.01	.02
8.4000	.03	.04	.06	.07	.09
8.9000	.11	.13	.15	.17	.19
9.4000	.22	.24	.26	.29	.31
9.9000	.34	.37	.40	.44	.49
10.4000	.54	.59	.66	.73	.81
10.9000	.90	1.00	1.11	1.25	1.41
11.4000	1.60	1.85	2.23	3.00	4.95
11.9000	8.95	15.33	22.52	27.05	27.14
12.4000	24.04	19.55	15.30	12.21	9.90
12.9000	8.13	6.80	5.83	5.10	4.54
13.4000	4.09	3.74	3.46	3.21	2.99
13.9000	2.80	2.65	2.52	2.41	2.30
14.4000	2.21	2.14	2.08	2.02	1.97
14.9000	1.93	1.89	1.85	1.81	1.77
15.4000	1.73	1.69	1.65	1.61	1.58
15.9000	1.54	1.50	1.46	1.42	1.39
16.4000	1.36	1.34	1.31	1.29	1.28
16.9000	1.26	1.25	1.23	1.22	1.20
17.4000	1.19	1.18	1.16	1.15	1.13
17.9000	1.12	1.11	1.09	1.08	1.07
18.4000	1.05	1.04	1.02	1.01	1.00
18.9000	.98	.97	.95	.94	.93
19.4000	.91	.90	.88	.87	.86
19.9000	.84	.83	.81	.80	.79
20.4000	.78	.77	.76	.76	.75
20.9000	.75	.75	.74	.74	.74
21.4000	.73	.73	.73	.73	.72
21.9000	.72	.72	.71	.71	.71
22.4000	.71	.70	.70	.70	.70
22.9000	.69	.69	.69	.68	.68
23.4000	.68	.68	.67	.67	.67
23.9000	.67	.66	.64	.59	.49
24.4000	.37	.26	.18	.12	.08
24.9000	.05	.04	.02	.02	.01
25.4000	.01	.00	.00	.00	.00

Type .. SCS Unit Hyd. Summary
Name.... EX64K-3 Tag: 2
File.... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Title... EX. 64K BYPASSING EX. LAKE
Storm... TypeII 24hr Tag: 2

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 24.0000 hrs Rain Depth = 3.5000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX64K-3 2
Tc = .6337 hrs
Drainage Area = 8.800 acres Runoff CN= 64

==========
Computational Time Increment = .08449 hrs
Computed Peak Time = 12.3351 hrs
Computed Peak Flow = 3.56 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.3000 hrs
Peak Flow, Interpolated Output = 3.50 cfs
WARNING: The difference between calculated peak flow
and interpolated peak flow is greater than 1.50%
==========

DRAINAGE AREA

ID:64K-EXISTING-3
CN = 64
Area = 8.800 acres
S = 5.6250 in
0.2S = 1.1250 in

Cumulative Runoff

.7051 in
.517 ac-ft

HYG Volume... .517 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .63365 hrs (ID: 64K-3)
Computational Incr, Tm = .08449 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 15.74 cfs
Unit peak time Tp = .42244 hrs
Unit receding limb, Tr = 1.68975 hrs
Total unit time, Tb = 2.11218 hrs

Type ... SCS Unit Hyd. (HYG output)
Name.... EX64K-3 Tag: 2
File.... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Title... EX. 64K BYPASSING EX. LAKE
Storm... TypeII 24hr Tag: 2

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 24.0000 hrs Rain Depth = 3.5000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX64K-3 2
Tc = .6337 hrs
Drainage Area = 8.800 acres Runoff CN= 64
Calc.Increment= .08449 hrs Out.Incr.= .1000 hrs
HYG Volume = .517 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
11.6000	.00	.01	.07	.35	1.05
12.1000	2.13	3.07	3.50	3.42	3.01
12.6000	2.50	2.09	1.77	1.52	1.32
13.1000	1.17	1.05	.95	.88	.81
13.6000	.76	.72	.68	.64	.61
14.1000	.58	.56	.53	.51	.50
14.6000	.49	.47	.46	.46	.45
15.1000	.44	.43	.42	.41	.41
15.6000	.40	.39	.38	.37	.36
16.1000	.36	.35	.34	.33	.33
16.6000	.32	.32	.31	.31	.31
17.1000	.31	.30	.30	.30	.29
17.6000	.29	.29	.28	.28	.28
18.1000	.27	.27	.27	.27	.26
18.6000	.26	.26	.25	.25	.25
19.1000	.24	.24	.24	.23	.23
19.6000	.23	.22	.22	.22	.21
20.1000	.21	.21	.20	.20	.20
20.6000	.20	.20	.19	.19	.19
21.1000	.19	.19	.19	.19	.19
21.6000	.19	.19	.19	.19	.19
22.1000	.19	.19	.19	.19	.18
22.6000	.18	.18	.18	.18	.18
23.1000	.18	.18	.18	.18	.18
23.6000	.18	.18	.18	.18	.18
24.1000	.17	.16	.13	.10	.07
24.6000	.05	.03	.02	.02	.01
25.1000	.01	.00	.00	.00	.00
25.6000	.00				

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 15 year storm
Duration = 24.0000 hrs Rain Depth = 5.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX64K-3 15
Tc = .6337 hrs
Drainage Area = 8.800 acres Runoff CN= 64

==========
Computational Time Increment = .08449 hrs
Computed Peak Time = 12.2507 hrs
Computed Peak Flow = 10.18 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.3000 hrs
Peak Flow, Interpolated Output = 10.13 cfs
==========

DRAINAGE AREA

ID:64K-EXISTING-3
CN = 64
Area = 8.800 acres
S = 5.6250 in
0.2S = 1.1250 in

Cumulative Runoff

1.7119 in
1.255 ac-ft

HYG Volume... 1.254 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .63365 hrs (ID: 64K-3)
Computational Incr, Tm = .08449 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 15.74 cfs
Unit peak time Tp = .42244 hrs
Unit receding limb, Tr = 1.68975 hrs
Total unit time, Tb = 2.11218 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 15 year storm
Duration = 24.0000 hrs Rain Depth = 5.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX64K-3 15
Tc = .6337 hrs
Drainage Area = 8.800 acres Runoff CN= 64
Calc.Increment= .08449 hrs Out.Incr.= .1000 hrs
HYG Volume = 1.254 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
10.8000	.00	.00	.01	.02	.04
11.3000	.07	.11	.17	.26	.48
11.8000	1.01	2.24	4.50	7.37	9.52
12.3000	10.13	9.43	7.98	6.43	5.24
12.8000	4.34	3.64	3.09	2.68	2.38
13.3000	2.14	1.94	1.78	1.66	1.55
13.8000	1.45	1.36	1.29	1.23	1.17
14.3000	1.12	1.08	1.05	1.02	.99
14.8000	.97	.95	.93	.91	.89
15.3000	.87	.85	.84	.82	.80
15.8000	.78	.76	.75	.73	.71
16.3000	.69	.68	.67	.66	.65
16.8000	.64	.63	.62	.62	.61
17.3000	.60	.60	.59	.59	.58
17.8000	.57	.57	.56	.55	.55
18.3000	.54	.53	.53	.52	.51
18.8000	.51	.50	.49	.49	.48
19.3000	.47	.46	.46	.45	.44
19.8000	.44	.43	.42	.42	.41
20.3000	.40	.40	.39	.39	.39
20.8000	.39	.38	.38	.38	.38
21.3000	.38	.38	.38	.37	.37
21.8000	.37	.37	.37	.37	.37
22.3000	.37	.36	.36	.36	.36
22.8000	.36	.36	.36	.36	.35
23.3000	.35	.35	.35	.35	.35
23.8000	.35	.34	.34	.33	.31
24.3000	.26	.20	.14	.10	.07
24.8000	.04	.03	.02	.01	.01
25.3000	.01	.00	.00	.00	.00

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm
Duration = 24.0000 hrs Rain Depth = 5.7000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX64K-3 25
Tc = .6337 hrs
Drainage Area = 8.800 acres Runoff CN= 64

==========
Computational Time Increment = .08449 hrs
Computed Peak Time = 12.2507 hrs
Computed Peak Flow = 12.47 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.3000 hrs
Peak Flow, Interpolated Output = 12.37 cfs
==========

DRAINAGE AREA

ID:64K-EXISTING-3
CN = 64
Area = 8.800 acres
S = 5.6250 in
0.2S = 1.1250 in

Cumulative Runoff

2.0520 in
1.505 ac-ft

HYG Volume... 1.503 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .63365 hrs (ID: 64K-3)
Computational Incr, Tm = .08449 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 15.74 cfs
Unit peak time Tp = .42244 hrs
Unit receding limb, Tr = 1.68975 hrs
Total unit time, Tb = 2.11218 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm
Duration = 24.0000 hrs Rain Depth = 5.7000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX64K-3 25
Tc = .6337 hrs
Drainage Area = 8.800 acres Runoff CN= 64
Calc.Increment= .08449 hrs Out.Incr.= .1000 hrs
HYG Volume = 1.503 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
10.5000	.00	.00	.01	.02	.04
11.0000	.06	.10	.14	.19	.25
11.5000	.33	.46	.75	1.44	2.99
12.0000	5.76	9.20	11.73	12.37	11.44
12.5000	9.63	7.73	6.28	5.18	4.32
13.0000	3.67	3.17	2.80	2.51	2.28
13.5000	2.09	1.94	1.81	1.70	1.59
14.0000	1.50	1.43	1.36	1.31	1.26
14.5000	1.22	1.18	1.15	1.12	1.10
15.0000	1.08	1.06	1.03	1.01	.99
15.5000	.97	.95	.93	.91	.89
16.0000	.87	.84	.82	.80	.79
16.5000	.77	.76	.75	.74	.73
17.0000	.72	.71	.71	.70	.69
17.5000	.68	.68	.67	.66	.65
18.0000	.65	.64	.63	.62	.62
18.5000	.61	.60	.59	.58	.58
19.0000	.57	.56	.55	.54	.54
19.5000	.53	.52	.51	.50	.50
20.0000	.49	.48	.47	.46	.46
20.5000	.45	.45	.45	.44	.44
21.0000	.44	.44	.44	.44	.43
21.5000	.43	.43	.43	.43	.43
22.0000	.42	.42	.42	.42	.42
22.5000	.42	.42	.41	.41	.41
23.0000	.41	.41	.41	.41	.40
23.5000	.40	.40	.40	.40	.40
24.0000	.39	.38	.35	.30	.23
24.5000	.17	.11	.08	.05	.03
25.0000	.02	.02	.01	.01	.00
25.5000	.00	.00	.00	.00	

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 7.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX64K-3 100
Tc = .6337 hrs
Drainage Area = 8.800 acres Runoff CN= 64

==========
Computational Time Increment = .08449 hrs
Computed Peak Time = 12.2507 hrs
Computed Peak Flow = 19.88 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.3000 hrs
Peak Flow, Interpolated Output = 19.58 cfs
WARNING: The difference between calculated peak flow
and interpolated peak flow is greater than 1.50%
==========

DRAINAGE AREA

ID:64K-EXISTING-3
CN = 64
Area = 8.800 acres
S = 5.6250 in
0.2S = 1.1250 in

Cumulative Runoff

3.1543 in
2.313 ac-ft

HYG Volume... 2.311 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .63365 hrs (ID: 64K-3)
Computational Incr, Tm = .08449 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 15.74 cfs
Unit peak time Tp = .42244 hrs
Unit receding limb, Tr = 1.68975 hrs
Total unit time, Tb = 2.11218 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 7.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - EX64K-3 100
Tc = .6337 hrs
Drainage Area = 8.800 acres Runoff CN= 64
Calc.Increment= .08449 hrs Out.Incr.= .1000 hrs
HYG Volume = 2.311 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
9.4000	.00	.00	.00	.01	.02
9.9000	.03	.05	.07	.09	.11
10.4000	.14	.17	.20	.25	.29
10.9000	.34	.40	.47	.56	.66
11.4000	.78	.93	1.17	1.70	2.92
11.9000	5.51	9.93	15.20	18.88	19.58
12.4000	17.87	14.89	11.85	9.55	7.83
12.9000	6.49	5.47	4.70	4.13	3.68
13.4000	3.33	3.05	2.81	2.62	2.45
13.9000	2.29	2.16	2.06	1.96	1.88
14.4000	1.80	1.74	1.69	1.65	1.61
14.9000	1.57	1.54	1.51	1.47	1.44
15.4000	1.41	1.38	1.35	1.32	1.29
15.9000	1.26	1.23	1.20	1.17	1.14
16.4000	1.12	1.10	1.08	1.06	1.05
16.9000	1.04	1.02	1.01	1.00	.99
17.4000	.98	.97	.96	.95	.93
17.9000	.92	.91	.90	.89	.88
18.4000	.87	.86	.85	.83	.82
18.9000	.81	.80	.79	.78	.77
19.4000	.75	.74	.73	.72	.71
19.9000	.70	.69	.67	.66	.65
20.4000	.64	.64	.63	.63	.62
20.9000	.62	.62	.62	.61	.61
21.4000	.61	.61	.60	.60	.60
21.9000	.60	.60	.59	.59	.59
22.4000	.59	.58	.58	.58	.58
22.9000	.58	.57	.57	.57	.57
23.4000	.56	.56	.56	.56	.56
23.9000	.55	.55	.54	.49	.42
24.4000	.32	.23	.16	.11	.07
24.9000	.05	.03	.02	.01	.01
25.4000	.01	.00	.00	.00	.00

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 24.0000 hrs Rain Depth = 3.5000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - KELLEN-BECK 2
Tc = .8246 hrs
Drainage Area = 34.810 acres Runoff CN= 92

==========
Computational Time Increment = .10995 hrs
Computed Peak Time = 12.3146 hrs
Computed Peak Flow = 54.88 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.4000 hrs
Peak Flow, Interpolated Output = 54.56 cfs
==========

DRAINAGE AREA

ID:KB-DEVELOPED
CN = 92
Area = 34.810 acres
S = .8696 in
0.2S = .1739 in

Cumulative Runoff

2.6367 in
7.649 ac-ft

HYG Volume... 7.653 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .82464 hrs (ID: KB-DEVELOPED)
Computational Incr, Tm = .10995 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 47.83 cfs
Unit peak time Tp = .54976 hrs
Unit receding limb, Tr = 2.19904 hrs
Total unit time, Tb = 2.74880 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 24.0000 hrs Rain Depth = 3.5000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - KELLEN-BECK 2
Tc = .8246 hrs
Drainage Area = 34.810 acres Runoff CN= 92
Calc.Increment= .10995 hrs Out.Incr.= .1000 hrs
HYG Volume = 7.653 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
4.3000	.00	.00	.01	.01	.02
4.8000	.03	.05	.06	.08	.10
5.3000	.12	.14	.16	.19	.21
5.8000	.23	.26	.28	.31	.33
6.3000	.36	.39	.41	.44	.47
6.8000	.50	.53	.55	.58	.61
7.3000	.64	.67	.70	.73	.76
7.8000	.79	.82	.85	.89	.92
8.3000	.95	.99	1.04	1.09	1.15
8.8000	1.21	1.28	1.35	1.43	1.51
9.3000	1.59	1.66	1.73	1.80	1.86
9.8000	1.92	1.99	2.07	2.16	2.26
10.3000	2.39	2.52	2.68	2.85	3.04
10.8000	3.25	3.48	3.74	4.04	4.37
11.3000	4.76	5.22	5.80	6.68	8.31
11.8000	11.53	17.45	26.54	37.84	48.36
12.3000	54.08	54.56	51.04	44.93	37.83
12.8000	31.21	25.87	21.71	18.38	15.70
13.3000	13.60	11.93	10.58	9.49	8.59
13.8000	7.84	7.21	6.68	6.22	5.82
14.3000	5.46	5.14	4.87	4.64	4.47
14.8000	4.33	4.20	4.09	3.98	3.89
15.3000	3.79	3.71	3.62	3.53	3.45
15.8000	3.37	3.29	3.20	3.12	3.04
16.3000	2.97	2.90	2.83	2.78	2.73
16.8000	2.68	2.64	2.60	2.57	2.53
17.3000	2.50	2.47	2.44	2.41	2.38
17.8000	2.35	2.32	2.29	2.26	2.23
18.3000	2.20	2.18	2.15	2.12	2.09
18.8000	2.06	2.03	2.00	1.97	1.94
19.3000	1.92	1.89	1.86	1.83	1.80

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 15 year storm
Duration = 24.0000 hrs Rain Depth = 5.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - KELLEN-BECK 15
Tc = .8246 hrs
Drainage Area = 34.810 acres Runoff CN= 92

==========
Computational Time Increment = .10995 hrs
Computed Peak Time = 12.3146 hrs
Computed Peak Flow = 87.74 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.4000 hrs
Peak Flow, Interpolated Output = 86.91 cfs
==========

DRAINAGE AREA

ID:KB-DEVELOPED
CN = 92
Area = 34.810 acres
S = .8696 in
0.2S = .1739 in

Cumulative Runoff

4.2848 in
12.429 ac-ft

HYG Volume... 12.437 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .82464 hrs (ID: KB-DEVELOPED)
Computational Incr, Tm = .10995 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 47.83 cfs
Unit peak time Tp = .54976 hrs
Unit receding limb, Tr = 2.19904 hrs
Total unit time, Tb = 2.74880 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 15 year storm
Duration = 24.0000 hrs Rain Depth = 5.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - KELLEN-BECK 15
Tc = .8246 hrs
Drainage Area = 34.810 acres Runoff CN= 92
Calc.Increment= .10995 hrs Out.Incr.= .1000 hrs
HYG Volume = 12.437 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
3.0000	.00	.00	.00	.01	.02
3.5000	.04	.06	.08	.11	.14
4.0000	.17	.20	.24	.27	.31
4.5000	.34	.38	.42	.46	.50
5.0000	.54	.58	.62	.66	.70
5.5000	.75	.79	.83	.88	.92
6.0000	.97	1.02	1.06	1.11	1.16
6.5000	1.20	1.25	1.30	1.35	1.40
7.0000	1.44	1.49	1.54	1.59	1.64
7.5000	1.69	1.74	1.79	1.84	1.89
8.0000	1.94	1.99	2.05	2.11	2.17
8.5000	2.25	2.34	2.44	2.56	2.68
9.0000	2.81	2.95	3.08	3.22	3.35
9.5000	3.46	3.57	3.67	3.77	3.87
10.0000	4.00	4.15	4.32	4.53	4.76
10.5000	5.02	5.31	5.63	5.98	6.38
11.0000	6.81	7.29	7.85	8.49	9.25
11.5000	10.21	11.67	14.34	19.60	29.15
12.0000	43.65	61.49	77.86	86.53	86.91
12.5000	80.98	71.06	59.66	49.11	40.61
13.0000	34.00	28.73	24.47	21.15	18.52
13.5000	16.40	14.68	13.27	12.10	11.11
14.0000	10.28	9.57	8.94	8.38	7.89
14.5000	7.46	7.11	6.85	6.62	6.43
15.0000	6.26	6.10	5.95	5.80	5.67
15.5000	5.53	5.40	5.28	5.15	5.02
16.0000	4.90	4.77	4.65	4.53	4.42
16.5000	4.33	4.24	4.16	4.09	4.03
17.0000	3.97	3.92	3.86	3.81	3.77
17.5000	3.72	3.67	3.63	3.58	3.54
18.0000	3.49	3.45	3.40	3.36	3.31
18.5000	3.27	3.23	3.18	3.14	3.09

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm
Duration = 24.0000 hrs Rain Depth = 5.7000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - KELLEN-BECK 25
Tc = .8246 hrs
Drainage Area = 34.810 acres Runoff CN= 92

==========
Computational Time Increment = .10995 hrs
Computed Peak Time = 12.3146 hrs
Computed Peak Flow = 97.34 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.4000 hrs
Peak Flow, Interpolated Output = 96.35 cfs
==========

DRAINAGE AREA

ID:KB-DEVELOPED
CN = 92
Area = 34.810 acres
S = .8696 in
0.2S = .1739 in

Cumulative Runoff

4.7747 in
13.851 ac-ft

HYG Volume... 13.859 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .82464 hrs (ID: KB-DEVELOPED)
Computational Incr, Tm = .10995 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 47.83 cfs
Unit peak time Tp = .54976 hrs
Unit receding limb, Tr = 2.19904 hrs
Total unit time, Tb = 2.74880 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm
Duration = 24.0000 hrs Rain Depth = 5.7000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - KELLEN-BECK 25
Tc = .8246 hrs
Drainage Area = 34.810 acres Runoff CN= 92
Calc.Increment= .10995 hrs Out.Incr.= .1000 hrs
HYG Volume = 13.859 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
2.8000	.00	.00	.01	.02	.03
3.3000	.05	.07	.10	.13	.17
3.8000	.21	.24	.28	.32	.36
4.3000	.40	.44	.49	.53	.57
4.8000	.62	.66	.71	.76	.81
5.3000	.85	.90	.95	1.00	1.05
5.8000	1.10	1.15	1.20	1.26	1.31
6.3000	1.36	1.41	1.47	1.52	1.57
6.8000	1.63	1.68	1.74	1.79	1.85
7.3000	1.90	1.96	2.01	2.07	2.12
7.8000	2.18	2.23	2.29	2.34	2.40
8.3000	2.47	2.55	2.63	2.74	2.85
8.8000	2.98	3.12	3.26	3.42	3.57
9.3000	3.72	3.87	4.00	4.12	4.22
9.8000	4.33	4.45	4.59	4.75	4.95
10.3000	5.18	5.44	5.73	6.06	6.41
10.8000	6.81	7.24	7.73	8.27	8.89
11.3000	9.61	10.45	11.52	13.15	16.13
11.8000	21.98	32.58	48.67	68.42	86.49
12.3000	96.02	96.35	89.73	78.69	66.03
12.8000	54.33	44.91	37.59	31.75	27.04
13.3000	23.36	20.45	18.10	16.20	14.64
13.8000	13.34	12.25	11.33	10.54	9.85
14.3000	9.24	8.69	8.22	7.84	7.54
14.8000	7.30	7.08	6.89	6.71	6.55
15.3000	6.39	6.24	6.09	5.95	5.81
15.8000	5.67	5.53	5.39	5.25	5.12
16.3000	4.99	4.87	4.76	4.67	4.58
16.8000	4.50	4.43	4.37	4.31	4.25
17.3000	4.20	4.15	4.09	4.04	3.99
17.8000	3.94	3.89	3.84	3.79	3.75
18.3000	3.70	3.65	3.60	3.55	3.50

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 7.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - KELLEN-BECK 100
Tc = .8246 hrs
Drainage Area = 34.810 acres Runoff CN= 92

==========
Computational Time Increment = .10995 hrs
Computed Peak Time = 12.3146 hrs
Computed Peak Flow = 125.99 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.4000 hrs
Peak Flow, Interpolated Output = 124.54 cfs
==========

DRAINAGE AREA

ID:KB-DEVELOPED
CN = 92
Area = 34.810 acres
S = .8696 in
0.2S = .1739 in

Cumulative Runoff

6.2523 in
18.137 ac-ft

HYG Volume... 18.148 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .82464 hrs (ID: KB-DEVELOPED)
Computational Incr, Tm = .10995 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 47.83 cfs
Unit peak time Tp = .54976 hrs
Unit receding limb, Tr = 2.19904 hrs
Total unit time, Tb = 2.74880 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 7.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - KELLEN-BECK 100
Tc = .8246 hrs
Drainage Area = 34.810 acres Runoff CN= 92
Calc.Increment= .10995 hrs Out.Incr.= .1000 hrs
HYG Volume = 18.148 ac-ft

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .1000 hrs Time on left represents time for first value in each row.				
2.3000	.00	.00	.01	.02	.05
2.8000	.07	.11	.15	.20	.25
3.3000	.30	.36	.41	.47	.53
3.8000	.59	.64	.70	.76	.81
4.3000	.87	.93	.99	1.05	1.11
4.8000	1.17	1.23	1.30	1.36	1.43
5.3000	1.49	1.56	1.63	1.69	1.76
5.8000	1.83	1.90	1.97	2.04	2.11
6.3000	2.18	2.25	2.31	2.38	2.45
6.8000	2.52	2.60	2.67	2.74	2.81
7.3000	2.88	2.95	3.02	3.09	3.16
7.8000	3.23	3.30	3.37	3.44	3.52
8.3000	3.60	3.70	3.82	3.95	4.11
8.8000	4.28	4.46	4.66	4.87	5.07
9.3000	5.27	5.46	5.63	5.78	5.92
9.8000	6.06	6.20	6.38	6.60	6.86
10.3000	7.16	7.50	7.88	8.31	8.78
10.8000	9.29	9.87	10.50	11.21	12.02
11.3000	12.96	14.07	15.46	17.59	21.48
11.8000	29.11	42.86	63.65	89.08	112.24
12.3000	124.31	124.54	115.81	101.44	85.04
12.8000	69.92	57.75	48.29	40.75	34.68
13.3000	29.94	26.19	23.17	20.72	18.72
13.8000	17.05	15.65	14.47	13.46	12.57
14.3000	11.78	11.08	10.47	9.99	9.61
14.8000	9.30	9.03	8.78	8.55	8.34
15.3000	8.14	7.95	7.76	7.58	7.40
15.8000	7.22	7.04	6.86	6.69	6.52
16.3000	6.36	6.20	6.06	5.94	5.83
16.8000	5.73	5.65	5.56	5.49	5.42
17.3000	5.35	5.28	5.21	5.15	5.08
17.8000	5.02	4.96	4.89	4.83	4.77

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 24.0000 hrs Rain Depth = 3.5000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - OFFSITE 2
Tc = 1.7659 hrs
Drainage Area = 48.600 acres Runoff CN= 77

==========
Computational Time Increment = .23545 hrs
Computed Peak Time = 12.9497 hrs
Computed Peak Flow = 23.08 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 13.0000 hrs
Peak Flow, Interpolated Output = 23.01 cfs
==========

DRAINAGE AREA

ID:OFFSITE
CN = 77
Area = 48.600 acres
S = 2.9870 in
0.2S = .5974 in

Cumulative Runoff

1.4305 in
5.794 ac-ft

HYG Volume... 5.793 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = 1.76586 hrs (ID: OFFSITE)
Computational Incr, Tm = .23545 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 31.18 cfs
Unit peak time Tp = 1.17724 hrs
Unit receding limb, Tr = 4.70897 hrs
Total unit time, Tb = 5.88621 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 24.0000 hrs Rain Depth = 3.5000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - OFFSITE 2
Tc = 1.7659 hrs
Drainage Area = 48.600 acres Runoff CN= 77
Calc.Increment= .23545 hrs Out.Incr.= .1000 hrs
HYG Volume = 5.793 ac-ft

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .1000 hrs Time on left represents time for first value in each row.				
9.9000	.00	.00	.00	.01	.01
10.4000	.02	.04	.05	.08	.10
10.9000	.14	.19	.24	.31	.38
11.4000	.50	.61	.85	1.17	1.69
11.9000	2.79	3.89	5.85	7.88	10.37
12.4000	13.22	15.95	18.23	20.51	21.65
12.9000	22.60	23.01	22.87	22.62	21.69
13.4000	20.77	19.42	17.97	16.60	15.32
13.9000	14.08	13.11	12.14	11.34	10.59
14.4000	9.89	9.26	8.63	8.14	7.65
14.9000	7.23	6.83	6.47	6.16	5.84
15.4000	5.60	5.35	5.14	4.94	4.75
15.9000	4.58	4.42	4.28	4.13	4.00
16.4000	3.88	3.77	3.66	3.56	3.46
16.9000	3.37	3.29	3.21	3.13	3.06
17.4000	2.99	2.92	2.86	2.81	2.76
17.9000	2.72	2.68	2.64	2.61	2.57
18.4000	2.53	2.50	2.47	2.44	2.40
18.9000	2.37	2.34	2.31	2.28	2.25
19.4000	2.22	2.19	2.16	2.13	2.10
19.9000	2.07	2.04	2.01	1.98	1.95
20.4000	1.92	1.89	1.87	1.84	1.82
20.9000	1.79	1.77	1.75	1.73	1.71
21.4000	1.70	1.68	1.67	1.65	1.64
21.9000	1.63	1.62	1.61	1.60	1.59
22.4000	1.59	1.58	1.57	1.56	1.56
22.9000	1.55	1.54	1.54	1.53	1.52
23.4000	1.52	1.51	1.51	1.50	1.49
23.9000	1.49	1.48	1.47	1.45	1.42
24.4000	1.39	1.35	1.28	1.22	1.14
24.9000	1.05	.96	.87	.77	.69
25.4000	.60	.53	.46	.40	.35

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 15 year storm
Duration = 24.0000 hrs Rain Depth = 5.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - OFFSITE 15
Tc = 1.7659 hrs
Drainage Area = 48.600 acres Runoff CN= 77

==========
Computational Time Increment = .23545 hrs
Computed Peak Time = 12.9497 hrs
Computed Peak Flow = 46.92 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 13.0000 hrs
Peak Flow, Interpolated Output = 46.62 cfs
==========

DRAINAGE AREA

ID:OFFSITE
CN = 77
Area = 48.600 acres
S = 2.9870 in
0.2S = .5974 in

Cumulative Runoff

2.7912 in
11.304 ac-ft

HYG Volume... 11.304 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = 1.76586 hrs (ID: OFFSITE)
Computational Incr, Tm = .23545 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 31.18 cfs
Unit peak time Tp = 1.17724 hrs
Unit receding limb, Tr = 4.70897 hrs
Total unit time, Tb = 5.88621 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 15 year storm
Duration = 24.0000 hrs Rain Depth = 5.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - OFFSITE 15
Tc = 1.7659 hrs
Drainage Area = 48.600 acres Runoff CN= 77
Calc.Increment= .23545 hrs Out.Incr.= .1000 hrs
HYG Volume = 11.304 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
8.0000	.00	.00	.00	.01	.01
8.5000	.02	.03	.04	.06	.08
9.0000	.11	.14	.17	.21	.26
9.5000	.31	.36	.41	.48	.54
10.0000	.61	.68	.76	.85	.94
10.5000	1.04	1.15	1.28	1.41	1.56
11.0000	1.73	1.91	2.14	2.36	2.67
11.5000	2.99	3.59	4.35	5.54	7.86
12.0000	10.18	14.18	18.33	23.28	28.86
12.5000	34.15	38.40	42.66	44.59	46.15
13.0000	46.62	46.01	45.18	43.06	40.95
13.5000	38.09	35.03	32.17	29.55	26.99
14.0000	25.04	23.08	21.45	19.95	18.54
14.5000	17.28	16.03	15.07	14.11	13.27
15.0000	12.50	11.78	11.18	10.57	10.09
15.5000	9.62	9.21	8.83	8.46	8.15
16.0000	7.84	7.57	7.30	7.06	6.83
16.5000	6.61	6.42	6.23	6.06	5.89
17.0000	5.73	5.59	5.44	5.31	5.18
17.5000	5.06	4.95	4.85	4.77	4.69
18.0000	4.62	4.55	4.49	4.43	4.36
18.5000	4.30	4.24	4.19	4.13	4.07
19.0000	4.02	3.97	3.91	3.86	3.80
19.5000	3.75	3.70	3.65	3.59	3.54
20.0000	3.49	3.44	3.39	3.34	3.29
20.5000	3.24	3.19	3.14	3.10	3.06
21.0000	3.02	2.98	2.95	2.92	2.89
21.5000	2.86	2.84	2.82	2.80	2.78
22.0000	2.76	2.74	2.73	2.71	2.70
22.5000	2.68	2.67	2.66	2.64	2.63
23.0000	2.62	2.61	2.60	2.59	2.58
23.5000	2.56	2.55	2.54	2.53	2.52

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm
Duration = 24.0000 hrs Rain Depth = 5.7000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - OFFSITE 25
Tc = 1.7659 hrs
Drainage Area = 48.600 acres Runoff CN= 77

==========
Computational Time Increment = .23545 hrs
Computed Peak Time = 12.9497 hrs
Computed Peak Flow = 54.34 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 13.0000 hrs
Peak Flow, Interpolated Output = 53.96 cfs
==========

DRAINAGE AREA

ID:OFFSITE
CN = 77
Area = 48.600 acres
S = 2.9870 in
0.2S = .5974 in

Cumulative Runoff

3.2185 in
13.035 ac-ft

HYG Volume... 13.035 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = 1.76586 hrs (ID: OFFSITE)
Computational Incr, Tm = .23545 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 31.18 cfs
Unit peak time Tp = 1.17724 hrs
Unit receding limb, Tr = 4.70897 hrs
Total unit time, Tb = 5.88621 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm
Duration = 24.0000 hrs Rain Depth = 5.7000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - OFFSITE 25
Tc = 1.7659 hrs
Drainage Area = 48.600 acres Runoff CN= 77
Calc.Increment= .23545 hrs Out.Incr.= .1000 hrs
HYG Volume = 13.035 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
7.5000	.00	.00	.00	.01	.01
8.0000	.02	.03	.04	.06	.08
8.5000	.10	.12	.15	.19	.23
9.0000	.27	.32	.38	.44	.50
9.5000	.57	.64	.71	.79	.87
10.0000	.96	1.05	1.15	1.26	1.37
10.5000	1.49	1.62	1.78	1.94	2.13
11.0000	2.33	2.55	2.82	3.09	3.47
11.5000	3.85	4.56	5.46	6.86	9.57
12.0000	12.27	16.91	21.71	27.42	33.83
12.5000	39.90	44.75	49.60	51.77	53.49
13.0000	53.96	53.19	52.17	49.67	47.18
13.5000	43.83	40.28	36.95	33.91	30.95
14.0000	28.68	26.42	24.53	22.79	21.16
14.5000	19.72	18.28	17.17	16.06	15.10
15.0000	14.21	13.38	12.69	11.99	11.44
15.5000	10.90	10.43	9.99	9.58	9.22
16.0000	8.86	8.55	8.25	7.97	7.71
16.5000	7.46	7.24	7.02	6.83	6.64
17.0000	6.46	6.29	6.13	5.98	5.83
17.5000	5.70	5.57	5.46	5.37	5.28
18.0000	5.20	5.12	5.05	4.97	4.90
18.5000	4.84	4.77	4.71	4.64	4.58
19.0000	4.52	4.45	4.39	4.33	4.27
19.5000	4.21	4.15	4.10	4.04	3.98
20.0000	3.92	3.86	3.80	3.75	3.69
20.5000	3.63	3.58	3.53	3.48	3.43
21.0000	3.39	3.35	3.31	3.28	3.24
21.5000	3.21	3.19	3.16	3.14	3.11
22.0000	3.10	3.08	3.06	3.04	3.02
22.5000	3.01	2.99	2.98	2.97	2.95
23.0000	2.94	2.92	2.91	2.90	2.89

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 7.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - OFFSITE 100
Tc = 1.7659 hrs
Drainage Area = 48.600 acres Runoff CN= 77

==========
Computational Time Increment = .23545 hrs
Computed Peak Time = 12.9497 hrs
Computed Peak Flow = 77.20 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 13.0000 hrs
Peak Flow, Interpolated Output = 76.55 cfs
==========

DRAINAGE AREA

ID:OFFSITE
CN = 77
Area = 48.600 acres
S = 2.9870 in
0.2S = .5974 in

Cumulative Runoff

4.5460 in
18.411 ac-ft

HYG Volume... 18.411 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = 1.76586 hrs (ID: OFFSITE)
Computational Incr, Tm = .23545 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 31.18 cfs
Unit peak time Tp = 1.17724 hrs
Unit receding limb, Tr = 4.70897 hrs
Total unit time, Tb = 5.88621 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 7.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - OFFSITE 100
Tc = 1.7659 hrs
Drainage Area = 48.600 acres Runoff CN= 77
Calc.Increment= .23545 hrs Out.Incr.= .1000 hrs
HYG Volume = 18.411 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
6.3000	.00	.00	.00	.01	.01
6.8000	.02	.03	.04	.05	.08
7.3000	.10	.13	.16	.19	.23
7.8000	.28	.32	.37	.42	.48
8.3000	.54	.60	.66	.73	.80
8.8000	.88	.96	1.04	1.14	1.24
9.3000	1.35	1.46	1.58	1.70	1.82
9.8000	1.96	2.09	2.23	2.38	2.53
10.3000	2.70	2.87	3.07	3.27	3.52
10.8000	3.76	4.05	4.37	4.71	5.13
11.3000	5.54	6.12	6.70	7.76	9.11
11.8000	11.16	15.05	18.94	25.52	32.33
12.3000	40.36	49.31	57.78	64.42	71.06
12.8000	73.90	76.10	76.55	75.27	73.63
13.3000	69.93	66.24	61.42	56.31	51.55
13.8000	47.23	43.00	39.79	36.58	33.91
14.3000	31.45	29.15	27.11	25.08	23.52
14.8000	21.97	20.62	19.38	18.22	17.25
15.3000	16.28	15.52	14.76	14.10	13.50
15.8000	12.92	12.42	11.93	11.50	11.08
16.3000	10.70	10.35	10.01	9.70	9.40
16.8000	9.14	8.88	8.63	8.40	8.18
17.3000	7.97	7.77	7.59	7.42	7.27
17.8000	7.15	7.03	6.92	6.81	6.71
18.3000	6.62	6.52	6.43	6.34	6.25
18.8000	6.17	6.08	6.00	5.92	5.84
19.3000	5.75	5.67	5.59	5.52	5.44
19.8000	5.36	5.28	5.20	5.12	5.04
20.3000	4.97	4.89	4.82	4.75	4.68
20.8000	4.61	4.55	4.49	4.44	4.38
21.3000	4.34	4.30	4.26	4.22	4.19
21.8000	4.16	4.12	4.10	4.07	4.05

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 24.0000 hrs Rain Depth = 3.5000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - SOUTHERNSIDE 2
Tc = .5535 hrs
Drainage Area = 11.390 acres Runoff CN= 81

==========
Computational Time Increment = .07381 hrs
Computed Peak Time = 12.2516 hrs
Computed Peak Flow = 15.26 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.2000 hrs
Peak Flow, Interpolated Output = 15.17 cfs
==========

DRAINAGE AREA

ID:AREAV-DEVELOPED
CN = 81
Area = 11.390 acres
S = 2.3457 in
0.2S = .4691 in

Cumulative Runoff

1.7086 in
1.622 ac-ft

HYG Volume... 1.622 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .55354 hrs (ID: AREAV-DEVELOPED)
Computational Incr, Tm = .07381 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 23.31 cfs
Unit peak time Tp = .36903 hrs
Unit receding limb, Tr = 1.47610 hrs
Total unit time, Tb = 1.84513 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 24.0000 hrs Rain Depth = 3.5000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - SOUTHERNSIDE 2
Tc = .5535 hrs
Drainage Area = 11.390 acres Runoff CN= 81
Calc.Increment= .07381 hrs Out.Incr.= .1000 hrs
HYG Volume = 1.622 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
8.7000	.00	.00	.00	.01	.02
9.2000	.02	.03	.05	.06	.07
9.7000	.08	.09	.10	.12	.14
10.2000	.16	.18	.20	.23	.26
10.7000	.30	.33	.38	.43	.49
11.2000	.56	.64	.74	.87	1.07
11.7000	1.56	2.64	5.08	8.99	13.19
12.2000	15.17	14.49	12.13	9.43	7.30
12.7000	5.76	4.67	3.84	3.25	2.82
13.2000	2.50	2.25	2.06	1.90	1.76
13.7000	1.64	1.55	1.47	1.40	1.33
14.2000	1.28	1.22	1.18	1.14	1.11
14.7000	1.08	1.06	1.04	1.02	1.00
15.2000	.97	.95	.93	.91	.89
15.7000	.87	.85	.83	.81	.79
16.2000	.77	.75	.74	.72	.71
16.7000	.70	.69	.69	.68	.67
17.2000	.66	.66	.65	.64	.63
17.7000	.63	.62	.61	.60	.60
18.2000	.59	.58	.57	.57	.56
18.7000	.55	.54	.54	.53	.52
19.2000	.51	.50	.50	.49	.48
19.7000	.47	.47	.46	.45	.44
20.2000	.44	.43	.42	.42	.42
20.7000	.41	.41	.41	.41	.41
21.2000	.41	.40	.40	.40	.40
21.7000	.40	.40	.40	.39	.39
22.2000	.39	.39	.39	.39	.39
22.7000	.38	.38	.38	.38	.38
23.2000	.38	.38	.37	.37	.37
23.7000	.37	.37	.37	.36	.35

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 15 year storm
Duration = 24.0000 hrs Rain Depth = 5.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - SOUTHERNSIDE 15
Tc = .5535 hrs
Drainage Area = 11.390 acres Runoff CN= 81

==========
Computational Time Increment = .07381 hrs
Computed Peak Time = 12.1778 hrs
Computed Peak Flow = 28.46 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.2000 hrs
Peak Flow, Interpolated Output = 28.42 cfs
==========

DRAINAGE AREA

ID:AREAV-DEVELOPED
CN = 81
Area = 11.390 acres
S = 2.3457 in
0.2S = .4691 in

Cumulative Runoff

3.1627 in
3.002 ac-ft

HYG Volume... 3.003 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .55354 hrs (ID: AREAV-DEVELOPED)
Computational Incr, Tm = .07381 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 23.31 cfs
Unit peak time Tp = .36903 hrs
Unit receding limb, Tr = 1.47610 hrs
Total unit time, Tb = 1.84513 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 15 year storm
Duration = 24.0000 hrs Rain Depth = 5.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\06753\PONDPACK\
HYG File - ID = PERSIMMO.HYG - SOUTHERNSIDE 15
Tc = .5535 hrs
Drainage Area = 11.390 acres Runoff CN= 81
Calc.Increment= .07381 hrs Out.Incr.= .1000 hrs
HYG Volume = 3.003 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
6.7000	.00	.00	.00	.01	.02
7.2000	.02	.03	.04	.05	.06
7.7000	.07	.08	.10	.11	.12
8.2000	.13	.14	.16	.18	.19
8.7000	.21	.24	.26	.28	.31
9.2000	.33	.36	.38	.41	.43
9.7000	.45	.48	.51	.54	.58
10.2000	.63	.68	.73	.80	.87
10.7000	.94	1.03	1.13	1.24	1.37
11.2000	1.52	1.70	1.92	2.18	2.61
11.7000	3.62	5.85	10.58	17.83	25.28
12.2000	28.42	26.73	22.10	17.03	13.07
12.7000	10.24	8.22	6.72	5.64	4.88
13.2000	4.30	3.85	3.51	3.22	2.98
13.7000	2.78	2.62	2.48	2.36	2.25
14.2000	2.15	2.06	1.98	1.92	1.86
14.7000	1.82	1.78	1.74	1.70	1.66
15.2000	1.63	1.59	1.56	1.52	1.49
15.7000	1.45	1.42	1.38	1.35	1.31
16.2000	1.28	1.25	1.22	1.20	1.18
16.7000	1.17	1.15	1.14	1.12	1.11
17.2000	1.10	1.09	1.07	1.06	1.05
17.7000	1.04	1.02	1.01	1.00	.98
18.2000	.97	.96	.95	.93	.92
18.7000	.91	.90	.88	.87	.86
19.2000	.84	.83	.82	.81	.79
19.7000	.78	.77	.75	.74	.73
20.2000	.72	.71	.70	.69	.69
20.7000	.68	.68	.67	.67	.67
21.2000	.67	.66	.66	.66	.66
21.7000	.65	.65	.65	.65	.64
22.2000	.64	.64	.64	.63	.63

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm
Duration = 24.0000 hrs Rain Depth = 5.7000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - SOUTHERNSIDE 25
Tc = .5535 hrs
Drainage Area = 11.390 acres Runoff CN= 81

==========
Computational Time Increment = .07381 hrs
Computed Peak Time = 12.1778 hrs
Computed Peak Flow = 32.51 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.2000 hrs
Peak Flow, Interpolated Output = 32.44 cfs
==========

DRAINAGE AREA

ID:AREAV-DEVELOPED
CN = 81
Area = 11.390 acres
S = 2.3457 in
0.2S = .4691 in

Cumulative Runoff

3.6114 in
3.428 ac-ft

HYG Volume... 3.429 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .55354 hrs (ID: AREAV-DEVELOPED)
Computational Incr, Tm = .07381 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 23.31 cfs
Unit peak time Tp = .36903 hrs
Unit receding limb, Tr = 1.47610 hrs
Total unit time, Tb = 1.84513 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm
Duration = 24.0000 hrs Rain Depth = 5.7000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - SOUTHERNSIDE 25
Tc = .5535 hrs
Drainage Area = 11.390 acres Runoff CN= 81
Calc.Increment= .07381 hrs Out.Incr.= .1000 hrs
HYG Volume = 3.429 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
6.3000	.00	.00	.01	.01	.02
6.8000	.03	.04	.05	.06	.07
7.3000	.08	.10	.11	.12	.13
7.8000	.15	.16	.17	.19	.20
8.3000	.22	.23	.25	.28	.30
8.8000	.33	.36	.39	.42	.45
9.3000	.48	.51	.53	.56	.58
9.8000	.61	.65	.69	.73	.79
10.3000	.85	.92	.99	1.07	1.16
10.8000	1.27	1.39	1.52	1.67	1.84
11.3000	2.05	2.30	2.61	3.11	4.29
11.8000	6.86	12.30	20.55	28.97	32.44
12.3000	30.42	25.10	19.31	14.80	11.57
12.8000	9.28	7.57	6.36	5.49	4.83
13.3000	4.33	3.94	3.61	3.34	3.12
13.8000	2.93	2.78	2.64	2.52	2.40
14.3000	2.30	2.22	2.15	2.09	2.03
14.8000	1.99	1.94	1.90	1.86	1.82
15.3000	1.78	1.74	1.70	1.66	1.62
15.8000	1.58	1.55	1.51	1.47	1.43
16.3000	1.39	1.37	1.34	1.32	1.30
16.8000	1.29	1.27	1.26	1.24	1.23
17.3000	1.21	1.20	1.18	1.17	1.16
17.8000	1.14	1.13	1.11	1.10	1.08
18.3000	1.07	1.06	1.04	1.03	1.01
18.8000	1.00	.98	.97	.96	.94
19.3000	.93	.91	.90	.88	.87
19.8000	.86	.84	.83	.81	.80
20.3000	.79	.78	.77	.76	.76
20.8000	.76	.75	.75	.75	.74
21.3000	.74	.74	.73	.73	.73
21.8000	.73	.72	.72	.72	.71

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 7.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - SOUTHERNSIDE 100
Tc = .5535 hrs
Drainage Area = 11.390 acres Runoff CN= 81

==========
Computational Time Increment = .07381 hrs
Computed Peak Time = 12.1778 hrs
Computed Peak Flow = 44.79 cfs

Time Increment for HYG File = .1000 hrs
Peak Time, Interpolated Output = 12.2000 hrs
Peak Flow, Interpolated Output = 44.63 cfs
==========

DRAINAGE AREA

ID:AREAV-DEVELOPED
CN = 81
Area = 11.390 acres
S = 2.3457 in
0.2S = .4691 in

Cumulative Runoff

4.9914 in
4.738 ac-ft

HYG Volume... 4.739 ac-ft (area under HYG curve)

***** UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .55354 hrs (ID: AREAV-DEVELOPED)
Computational Incr, Tm = .07381 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 23.31 cfs
Unit peak time Tp = .36903 hrs
Unit receding limb, Tr = 1.47610 hrs
Total unit time, Tb = 1.84513 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 7.2000 in
Rain Dir = C:\HAESTAD\PPKW\RAINFALL\
Rain File -ID = SCSTYPES.RNF - TypeII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = J:\0675B\PONDPACK\
HYG File - ID = PERSIMMO.HYG - SOUTHERNSIDE 100
Tc = .5535 hrs
Drainage Area = 11.390 acres Runoff CN= 81
Calc.Increment= .07381 hrs Out.Incr.= .1000 hrs
HYG Volume = 4.739 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
5.3000	.00	.00	.01	.02	.02
5.8000	.04	.05	.06	.08	.09
6.3000	.11	.12	.14	.15	.17
6.8000	.19	.20	.22	.24	.25
7.3000	.27	.29	.31	.33	.34
7.8000	.36	.38	.40	.42	.44
8.3000	.47	.49	.53	.56	.60
8.8000	.64	.69	.73	.78	.83
9.3000	.87	.92	.95	.99	1.02
9.8000	1.06	1.11	1.17	1.24	1.32
10.3000	1.41	1.51	1.62	1.74	1.88
10.8000	2.03	2.20	2.39	2.61	2.85
11.3000	3.15	3.52	3.97	4.69	6.37
11.8000	10.03	17.60	28.89	40.21	44.63
12.3000	41.60	34.16	26.18	20.00	15.59
12.8000	12.47	10.14	8.49	7.32	6.42
13.3000	5.74	5.22	4.78	4.42	4.12
13.8000	3.87	3.67	3.49	3.32	3.17
14.3000	3.03	2.92	2.83	2.75	2.68
14.8000	2.62	2.56	2.50	2.45	2.39
15.3000	2.34	2.29	2.24	2.19	2.13
15.8000	2.08	2.03	1.98	1.92	1.88
16.3000	1.83	1.79	1.76	1.73	1.71
16.8000	1.69	1.67	1.65	1.63	1.61
17.3000	1.59	1.57	1.55	1.53	1.51
17.8000	1.49	1.48	1.46	1.44	1.42
18.3000	1.40	1.38	1.36	1.35	1.33
18.8000	1.31	1.29	1.27	1.25	1.23
19.3000	1.21	1.19	1.18	1.16	1.14
19.8000	1.12	1.10	1.08	1.06	1.04
20.3000	1.03	1.02	1.01	1.00	.99
20.8000	.99	.98	.98	.97	.97

SUMMARY FOR HYDROGRAPH ADDITION
at Node: NET-OUT

HYG Directory: J:\0675B\PONDPACK\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
LAKE3-ROUTE	SOUTH LAKE	PERSIMMO.HYG	LAKE3-ROUTE	2
BYPASS-DEV-HYD	BYPASS-DEVELOPED	PERSIMMO.HYG	BYPASS-DEVELOPED	2

INFLOWS TO: NET-OUT

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
PERSIMMO.HYG	LAKE3-ROUTE	2	14.053	14.4000	21.31
PERSIMMO.HYG	BYPASS-DEVELOPED	2	.220	12.1000	2.27

TOTAL FLOW INTO: NET-OUT

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
PERSIMMO.HYG	NET-OUT	2	14.303	14.4000	21.50

TOTAL NODE INFLOW...
HYG file = J:\0675B\PONDPACK\PERSIMMO.HYG
HYG ID = NET-OUT
HYG Tag = 2

Peak Discharge =	21.50 cfs
Time to Peak =	14.4000 hrs
HYG Volume =	14.303 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
8.0000	.00	.02	.02	.02	.04
8.5000	.04	.04	.07	.07	.09
9.0000	.09	.11	.13	.15	.17
9.5000	.20	.22	.24	.26	.28
10.0000	.30	.33	.35	.37	.39
10.5000	.41	.43	.46	.50	.54
11.0000	.58	.63	.67	.73	.80
11.5000	.89	1.01	1.21	1.58	2.43
12.0000	4.18	6.78	9.09	11.23	12.89
12.5000	14.25	15.13	15.77	16.31	16.82
13.0000	17.30	17.75	18.24	18.70	19.16
13.5000	19.56	19.97	20.32	20.62	20.87
14.0000	21.07	21.21	21.36	21.45	21.50
14.5000	21.50	21.49	21.43	21.36	21.26
15.0000	21.13	21.00	20.87	20.74	20.55
15.5000	20.36	20.17	19.98	19.79	19.60
16.0000	19.41	19.22	19.03	18.79	18.57
16.5000	18.32	18.11	17.87	17.65	17.44
17.0000	17.22	17.01	16.80	16.58	16.37
17.5000	16.16	15.95	15.75	15.54	15.33
18.0000	15.13	14.92	14.72	14.51	14.31
18.5000	14.11	13.91	13.71	13.51	13.31
19.0000	13.11	12.96	12.76	12.57	12.42
19.5000	12.23	12.08	11.94	11.74	11.60
20.0000	11.42	11.30	11.14	10.98	10.82
20.5000	10.70	10.54	10.42	10.26	10.14
21.0000	10.03	9.91	9.79	9.68	9.52
21.5000	9.41	9.29	9.18	9.06	8.95
22.0000	8.84	8.72	8.61	8.50	8.38
22.5000	8.27	8.19	8.12	8.01	7.93
23.0000	7.86	7.78	7.67	7.60	7.53
23.5000	7.45	7.38	7.31	7.24	7.16
24.0000	7.09	.06	.05	.03	.02

Name ... NET-OUT Event: 15 yr
File ... J:\0675B PONDPACK\DEVELOPED2-REV-2.PPW
Storm... TypeII 24hr Tag: 15

SUMMARY FOR HYDROGRAPH ADDITION
at Node: NET-OUT

HYG Directory: J:\0675B\PONDPACK\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
LAKE3-ROUTE	SOUTH LAKE	PERSIMMO.HYG	LAKE3-ROUTE	15
BYPASS-DEV-HYD	BYPASS-DEVELOPED	PERSIMMO.HYG	BYPASS-DEVELOPED	15

INFLOWS TO: NET-OUT

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
PERSIMMO.HYG	LAKE3-ROUTE	15	27.400	14.0000	53.98
PERSIMMO.HYG	BYPASS-DEVELOPED	15	.486	12.1000	5.54

TOTAL FLOW INTO: NET-OUT

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
PERSIMMO.HYG	NET-OUT	15	27.933	14.0000	54.40

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TOTAL NODE INFLOW...
HYG file = J:\0675B\PONDPACK\PERSIMMO.HYG
HYG ID = NET-OUT
HYG Tag = 15

Peak Discharge =	54.40 cfs
Time to Peak =	14.0000 hrs
HYG Volume =	27.933 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
6.1000	.00	.02	.02	.02	.04
6.6000	.04	.07	.07	.09	.09
7.1000	.11	.13	.15	.17	.20
7.6000	.22	.24	.26	.28	.30
8.1000	.33	.35	.37	.39	.41
8.6000	.43	.46	.48	.50	.52
9.1000	.54	.56	.61	.65	.69
9.6000	.74	.78	.82	.86	.91
10.1000	.97	1.04	1.11	1.20	1.29
10.6000	1.38	1.48	1.59	1.71	1.85
11.1000	2.01	2.18	2.38	2.71	3.08
11.6000	3.53	4.22	5.52	8.03	12.66
12.1000	18.05	22.79	26.57	29.49	31.52
12.6000	32.98	34.36	35.94	37.67	39.36
13.1000	41.30	43.18	45.05	47.05	49.17
13.6000	50.94	52.53	53.63	54.22	54.40
14.1000	54.14	53.52	52.68	51.60	50.36
14.6000	49.19	48.18	47.20	46.28	45.43
15.1000	44.52	43.68	42.79	41.91	41.09
15.6000	40.22	39.40	38.60	37.80	36.97
16.1000	36.19	35.41	34.64	33.88	33.17
16.6000	32.47	31.79	31.15	30.51	29.88
17.1000	29.25	28.63	28.05	27.51	26.97
17.6000	26.44	25.92	25.43	24.98	24.54
18.1000	24.13	23.74	23.34	22.94	22.58
18.6000	22.26	21.93	21.61	21.35	21.09
19.1000	20.84	20.58	20.33	20.08	19.83
19.6000	19.57	19.32	19.08	18.83	18.58
20.1000	18.33	18.09	17.85	17.60	17.39
20.6000	17.18	16.97	16.76	16.54	16.33
21.1000	16.12	15.92	15.71	15.50	15.35
21.6000	15.14	14.94	14.79	14.59	14.43
22.1000	14.28	14.08	13.88	13.73	13.58

SUMMARY FOR HYDROGRAPH ADDITION
at Node: NET-OUT

HYG Directory: J:\0675B\PONDPACK\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
LAKE3-ROUTE	SOUTH LAKE	PERSIMMO.HYG	LAKE3-ROUTE	25
BYPASS-DEV-HYD	BYPASS-DEVELOPED	PERSIMMO.HYG	BYPASS-DEVELOPED	25

INFLOWS TO: NET-OUT

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
PERSIMMO.HYG	LAKE3-ROUTE	25	31.532	13.8000	71.34
PERSIMMO.HYG	BYPASS-DEVELOPED	25	.573	12.1000	6.60

TOTAL FLOW INTO: NET-OUT

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
PERSIMMO.HYG	NET-OUT	25	32.157	13.8000	71.87

TOTAL NODE INFLOW...
HYG file = J:\0675B\PONDPACK\PERSIMMO.HYG
HYG ID = NET-OUT
HYG Tag = 25

Peak Discharge =	71.87 cfs
Time to Peak =	13.8000 hrs
HYG Volume =	32.157 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
5.8000	.00	.02	.02	.04	.04
6.3000	.07	.07	.09	.09	.11
6.8000	.13	.15	.17	.20	.22
7.3000	.24	.26	.28	.30	.33
7.8000	.35	.37	.39	.41	.43
8.3000	.46	.48	.50	.52	.54
8.8000	.56	.61	.65	.69	.74
9.3000	.78	.82	.86	.93	1.00
9.8000	1.06	1.13	1.20	1.29	1.38
10.3000	1.47	1.56	1.68	1.79	1.93
10.8000	2.07	2.23	2.43	2.72	3.04
11.3000	3.37	3.74	4.16	4.66	5.47
11.8000	6.98	10.16	15.60	22.01	27.57
12.3000	31.84	35.06	37.47	39.38	41.25
12.8000	43.39	45.57	48.32	52.03	56.34
13.3000	60.75	64.67	67.88	70.15	71.52
13.8000	71.87	71.32	70.19	68.48	66.60
14.3000	64.45	62.20	60.05	57.75	55.58
14.8000	53.51	51.59	49.94	48.55	47.35
15.3000	46.28	45.26	44.31	43.36	42.47
15.8000	41.59	40.72	39.87	39.06	38.26
16.3000	37.47	36.69	35.92	35.19	34.47
16.8000	33.76	33.05	32.35	31.72	31.08
17.3000	30.48	29.89	29.34	28.79	28.25
17.8000	27.71	27.17	26.68	26.23	25.78
18.3000	25.33	24.89	24.45	24.08	23.72
18.8000	23.35	23.02	22.69	22.37	22.04
19.3000	21.75	21.49	21.23	20.98	20.72
19.8000	20.46	20.21	19.96	19.70	19.45
20.3000	19.24	19.02	18.77	18.56	18.35
20.8000	18.14	17.92	17.71	17.49	17.30
21.3000	17.09	16.90	16.69	16.51	16.33
21.8000	16.12	15.96	15.76	15.60	15.44

Name ... NET-OUT Event: 100 yr
File ... J:\0675B\PONDPACK\DEVELOPED2-REV-2.PPW
Storm... TypeII 24hr Tag: 100

SUMMARY FOR HYDROGRAPH ADDITION
at Node: NET-OUT

HYG Directory: J:\0675B\PONDPACK\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
LAKE3-ROUTE	SOUTH LAKE	PERSIMMO.HYG	LAKE3-ROUTE	100
BYPASS-DEV-HYD	BYPASS-DEVELOPED	PERSIMMO.HYG	BYPASS-DEVELOPED	100

INFLOWS TO: NET-OUT

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
PERSIMMO.HYG	LAKE3-ROUTE	100	44.703	13.4000	130.07
PERSIMMO.HYG	BYPASS-DEVELOPED	100	.850	12.1000	9.94

TOTAL FLOW INTO: NET-OUT

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
PERSIMMO.HYG	NET-OUT	100	45.619	13.4000	130.98

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TOTAL NODE INFLOW...
HYG file = J:\0675B\PONDPACK\PERSIMMO.HYG
HYG ID = NET-OUT
HYG Tag = 100

Peak Discharge =	130.98 cfs
Time to Peak =	13.4000 hrs
HYG Volume =	45.519 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
4.9000	.00	.02	.02	.04	.04
5.4000	.07	.09	.09	.11	.13
5.9000	.15	.17	.20	.22	.24
6.4000	.26	.28	.30	.33	.35
6.9000	.37	.39	.41	.43	.46
7.4000	.50	.54	.58	.63	.67
7.9000	.71	.76	.80	.84	.88
8.4000	.93	.97	1.04	1.10	1.17
8.9000	1.24	1.33	1.42	1.51	1.60
9.4000	1.69	1.80	1.91	2.02	2.13
9.9000	2.27	2.47	2.67	2.87	3.07
10.4000	3.30	3.54	3.78	4.06	4.38
10.9000	4.70	5.06	5.46	5.86	6.35
11.4000	6.92	7.63	8.51	9.89	12.40
11.9000	17.16	25.14	34.67	42.67	48.77
12.4000	53.91	58.44	64.12	73.21	84.93
12.9000	97.64	111.05	120.95	127.72	130.68
13.4000	130.98	129.24	126.03	121.68	116.72
13.9000	111.53	106.00	100.47	95.53	90.96
14.4000	86.81	82.66	78.61	74.76	71.12
14.9000	67.63	64.56	61.76	59.22	56.97
15.4000	54.69	52.63	50.85	49.44	48.25
15.9000	47.21	46.24	45.38	44.53	43.68
16.4000	42.90	42.12	41.35	40.63	39.94
16.9000	39.27	38.62	37.97	37.32	36.67
17.4000	36.03	35.39	34.76	34.13	33.55
17.9000	33.02	32.50	31.98	31.50	31.01
18.4000	30.53	30.06	29.59	29.11	28.64
18.9000	28.18	27.76	27.37	26.99	26.61
19.4000	26.23	25.85	25.48	25.11	24.73
19.9000	24.41	24.11	23.78	23.48	23.18
20.4000	22.88	22.62	22.36	22.10	21.84
20.9000	21.59	21.39	21.20	21.01	20.82

ICPM HYDROGRAPH...
HYG file = J:\0675B\PONDPACK\PERSIMMO.HYG
HYG ID = K-B LAKE IN
HYG Tag = 2

Peak Discharge = 79.54 cfs
Time to Peak = 12.4000 hrs
HYG Volume = 15.823 ac-ft

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .1000 hrs Time on left represents time for first value in each row.				
.0000	.00	.00	.00	.00	.00
.5000	.00	.00	.00	.00	.00
1.0000	.00	.00	.00	.00	.00
1.5000	.00	.00	.00	.00	.00
2.0000	.00	.00	.00	.00	.00
2.5000	.00	.00	.00	.00	.00
3.0000	.00	.00	.00	.00	.00
3.5000	.00	.00	.00	.00	.00
4.0000	.00	.00	.00	.00	.00
4.5000	.01	.01	.02	.03	.05
5.0000	.06	.08	.10	.12	.14
5.5000	.16	.19	.21	.23	.26
6.0000	.28	.31	.33	.36	.39
6.5000	.41	.44	.47	.50	.53
7.0000	.55	.58	.61	.64	.67
7.5000	.70	.73	.76	.79	.82
8.0000	.85	.89	.92	.95	.99
8.5000	1.04	1.09	1.15	1.21	1.28
9.0000	1.35	1.43	1.51	1.59	1.66
9.5000	1.73	1.80	1.86	1.92	1.99
10.0000	2.07	2.16	2.27	2.40	2.55
10.5000	2.71	2.90	3.12	3.35	3.63
11.0000	3.93	4.28	4.68	5.15	5.74
11.5000	6.47	7.65	9.72	13.95	22.23
12.0000	34.97	51.64	67.05	76.49	79.54
12.5000	77.64	72.47	66.60	60.32	55.28
13.0000	51.00	47.14	43.89	40.60	37.79
13.5000	34.91	32.20	29.78	27.61	25.60
14.0000	23.98	22.44	21.13	19.92	18.80
14.5000	17.81	16.87	16.12	15.40	14.77
15.0000	14.18	13.64	13.15	12.68	12.27
15.5000	11.87	11.51	11.16	10.82	10.51
16.0000	10.20	9.91	9.62	9.34	9.08

ICPM HYDROGRAPH...
HYG file = J:\0675B\PONDPACK\PERSIMMO.HYG
HYG ID = K-B LAKE IN
HYG Tag = 15

Peak Discharge =	143.10 cfs
Time to Peak =	12.4000 hrs
HYG Volume =	29.276 ac-ft

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .1000 hrs Time on left represents time for first value in each row.				
.0000	.00	.00	.00	.00	.00
.5000	.00	.00	.00	.00	.00
1.0000	.00	.00	.00	.00	.00
1.5000	.00	.00	.00	.00	.00
2.0000	.00	.00	.00	.00	.00
2.5000	.00	.00	.00	.00	.00
3.0000	.00	.00	.00	.01	.02
3.5000	.04	.06	.08	.11	.14
4.0000	.17	.20	.24	.27	.31
4.5000	.34	.38	.42	.46	.50
5.0000	.54	.58	.62	.66	.70
5.5000	.75	.79	.83	.88	.92
6.0000	.97	1.02	1.06	1.11	1.16
6.5000	1.20	1.25	1.30	1.35	1.40
7.0000	1.44	1.49	1.54	1.59	1.64
7.5000	1.69	1.74	1.79	1.84	1.89
8.0000	1.94	1.99	2.05	2.11	2.19
8.5000	2.27	2.37	2.49	2.62	2.76
9.0000	2.92	3.08	3.26	3.43	3.60
9.5000	3.77	3.93	4.09	4.26	4.43
10.0000	4.64	4.88	5.15	5.46	5.81
10.5000	6.20	6.63	7.12	7.65	8.26
11.0000	8.95	9.72	10.61	11.62	12.88
11.5000	14.40	16.83	20.97	29.12	44.71
12.0000	67.88	97.48	123.72	138.93	143.10
12.5000	138.99	129.64	119.76	109.08	100.52
13.0000	93.13	86.31	80.51	74.51	69.30
13.5000	63.94	58.84	54.29	50.24	46.46
14.0000	43.46	40.60	38.17	35.94	33.88
14.5000	32.07	30.35	29.01	27.72	26.58
15.0000	25.54	24.56	23.71	22.86	22.16
15.5000	21.46	20.82	20.21	19.61	19.06
16.0000	18.51	18.01	17.51	17.05	16.62

Name . . . K-B LAKE IN Tag: 25 Event: 25 yr
File. . . J:\0675B\PONDPACK\PERSIMMO.HYG
Storm. . . TypeII 24hr Tag: 25

ICPM HYDROGRAPH...
HYG file = J:\0675B\PONDPACK\PERSIMMO.HYG
HYG ID = K-B LAKE IN
HYG Tag = 25

Peak Discharge =	162.47 cfs
Time to Peak =	12.4000 hrs
HYG Volume =	33.473 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
.0000	.00	.00	.00	.00	.00
.5000	.00	.00	.00	.00	.00
1.0000	.00	.00	.00	.00	.00
1.5000	.00	.00	.00	.00	.00
2.0000	.00	.00	.00	.00	.00
2.5000	.00	.00	.00	.00	.00
3.0000	.01	.02	.03	.05	.07
3.5000	.10	.13	.17	.21	.24
4.0000	.28	.32	.36	.40	.44
4.5000	.49	.53	.57	.62	.66
5.0000	.71	.76	.81	.85	.90
5.5000	.95	1.00	1.05	1.10	1.15
6.0000	1.20	1.26	1.31	1.36	1.41
6.5000	1.47	1.52	1.57	1.63	1.68
7.0000	1.74	1.79	1.85	1.90	1.96
7.5000	2.01	2.07	2.13	2.18	2.24
8.0000	2.31	2.37	2.44	2.53	2.62
8.5000	2.73	2.86	3.00	3.17	3.35
9.0000	3.54	3.74	3.95	4.17	4.38
9.5000	4.59	4.79	4.99	5.19	5.41
10.0000	5.65	5.93	6.26	6.62	7.04
10.5000	7.51	8.02	8.61	9.25	9.97
11.0000	10.78	11.69	12.74	13.94	15.42
11.5000	17.18	19.95	24.71	34.10	51.89
12.0000	78.27	111.75	141.18	158.01	162.47
12.5000	157.59	146.99	135.87	123.85	114.20
13.0000	105.86	98.15	91.58	84.74	78.79
13.5000	72.66	66.83	61.61	56.98	52.66
14.0000	49.24	45.98	43.21	40.68	38.34
14.5000	36.27	34.32	32.80	31.33	30.05
15.0000	28.87	27.76	26.79	25.83	25.02
15.5000	24.22	23.49	22.81	22.14	21.54
16.0000	20.93	20.38	19.83	19.33	18.85

ICPM HYDROGRAPH...
HYG file = J:\0675B\PONDPACK\PERSIMMO.HYG
HYG ID = K-B LAKE IN
HYG Tag = 100

Peak Discharge = 221.47 cfs
Time to Peak = 12.4000 hrs
HYG Volume = 46.440 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
.0000	.00	.00	.00	.00	.00
.5000	.00	.00	.00	.00	.00
1.0000	.00	.00	.00	.00	.00
1.5000	.00	.00	.00	.00	.00
2.0000	.00	.00	.00	.00	.00
2.5000	.01	.02	.05	.07	.11
3.0000	.15	.20	.25	.30	.36
3.5000	.41	.47	.53	.59	.64
4.0000	.70	.76	.81	.87	.93
4.5000	.99	1.05	1.11	1.17	1.23
5.0000	1.30	1.36	1.43	1.49	1.56
5.5000	1.63	1.69	1.76	1.83	1.90
6.0000	1.97	2.04	2.11	2.18	2.25
6.5000	2.32	2.39	2.47	2.54	2.62
7.0000	2.70	2.79	2.88	2.97	3.08
7.5000	3.18	3.28	3.39	3.51	3.62
8.0000	3.74	3.87	4.01	4.16	4.33
8.5000	4.52	4.74	4.98	5.24	5.53
9.0000	5.84	6.16	6.50	6.84	7.18
9.5000	7.52	7.84	8.16	8.47	8.81
10.0000	9.20	9.64	10.15	10.72	11.35
10.5000	12.07	12.84	13.72	14.65	15.71
11.0000	16.88	18.18	19.70	21.40	23.51
11.5000	25.98	29.91	36.60	49.70	74.32
12.0000	110.41	155.70	194.74	216.41	221.47
12.5000	214.30	199.63	184.75	168.59	155.63
13.0000	144.35	133.84	124.87	115.46	107.23
13.5000	98.76	90.68	83.46	77.07	71.09
14.0000	66.39	61.91	58.12	54.65	51.45
14.5000	48.64	45.98	43.92	41.93	40.19
15.0000	38.59	37.10	35.81	34.53	33.47
15.5000	32.41	31.45	30.55	29.67	28.88
16.0000	28.09	27.37	26.66	26.00	25.39

ICPM HYDROGRAPH...
HYG file = J:\0675B\PONDPACK\PERSIMMO.HYG
HYG ID = K-B LAKE OUT
HYG Tag = 2

Peak Discharge = 20.21 cfs
Time to Peak = 14.3000 hrs
HYG Volume = 12.824 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
.0000	.00	.00	.00	.00	.00
.5000	.00	.00	.00	.00	.00
1.0000	.00	.00	.00	.00	.00
1.5000	.00	.00	.00	.00	.00
2.0000	.00	.00	.00	.00	.00
2.5000	.00	.00	.00	.00	.00
3.0000	.00	.00	.00	.00	.00
3.5000	.00	.00	.00	.00	.00
4.0000	.00	.00	.00	.00	.00
4.5000	.00	.00	.00	.00	.00
5.0000	.00	.00	.00	.00	.00
5.5000	.00	.01	.01	.01	.01
6.0000	.01	.02	.02	.02	.02
6.5000	.03	.03	.03	.04	.04
7.0000	.05	.05	.06	.06	.06
7.5000	.07	.07	.08	.09	.09
8.0000	.10	.11	.11	.12	.13
8.5000	.13	.14	.15	.16	.17
9.0000	.18	.19	.20	.21	.22
9.5000	.23	.25	.26	.27	.29
10.0000	.30	.32	.33	.35	.37
10.5000	.39	.41	.43	.45	.48
11.0000	.51	.54	.57	.63	.70
11.5000	.78	.87	.99	1.15	1.40
12.0000	1.85	2.61	3.75	5.24	6.95
12.5000	8.71	10.40	11.94	13.29	14.47
13.0000	15.49	16.38	17.15	17.81	18.37
13.5000	18.85	19.23	19.53	19.77	19.95
14.0000	20.07	20.16	20.20	20.21	20.18
14.5000	20.13	20.06	19.97	19.86	19.73
15.0000	19.60	19.45	19.29	19.12	18.95
15.5000	18.77	18.58	18.39	18.20	18.00
16.0000	17.80	17.60	17.39	17.18	16.98

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
16.5000	16.76	16.55	16.34	16.13	15.92
17.0000	15.70	15.50	15.29	15.09	14.88
17.5000	14.68	14.48	14.28	14.08	13.89
18.0000	13.69	13.50	13.32	13.13	12.95
18.5000	12.77	12.60	12.42	12.25	12.08
19.0000	11.91	11.74	11.58	11.42	11.25
19.5000	11.10	10.95	10.80	10.65	10.50
20.0000	10.35	10.21	10.07	9.93	9.79
20.5000	9.66	9.52	9.40	9.27	9.14
21.0000	9.02	8.90	8.78	8.67	8.55
21.5000	8.44	8.33	8.22	8.11	8.01
22.0000	7.91	7.81	7.71	7.62	7.53
22.5000	7.44	7.35	7.27	7.19	7.10
23.0000	7.02	6.94	6.87	6.80	6.72
23.5000	6.65	6.58	6.51	6.44	6.37
24.0000	6.31				

ICPM HYDROGRAPH...
HYG file = J:\0675B\PONDPACK\PERSIMMO.HYG
HYG ID = K-B LAKE OUT
HYG Tag = 15

Peak Discharge =	53.02 cfs
Time to Peak =	13.7000 hrs
HYG Volume =	24.970 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
.0000	.00	.00	.00	.00	.00
.5000	.00	.00	.00	.00	.00
1.0000	.00	.00	.00	.00	.00
1.5000	.00	.00	.00	.00	.00
2.0000	.00	.00	.00	.00	.00
2.5000	.00	.00	.00	.00	.00
3.0000	.00	.00	.00	.00	.00
3.5000	.00	.00	.00	.00	.00
4.0000	.00	.00	.01	.01	.01
4.5000	.01	.01	.02	.02	.03
5.0000	.03	.04	.04	.04	.05
5.5000	.06	.06	.07	.07	.08
6.0000	.09	.10	.10	.11	.12
6.5000	.13	.14	.15	.16	.17
7.0000	.18	.19	.20	.21	.22
7.5000	.24	.25	.26	.28	.29
8.0000	.30	.32	.33	.35	.36
8.5000	.38	.39	.41	.43	.45
9.0000	.47	.49	.51	.53	.56
9.5000	.59	.64	.69	.74	.79
10.0000	.85	.91	.97	1.03	1.10
10.5000	1.17	1.25	1.33	1.42	1.52
11.0000	1.63	1.77	1.92	2.09	2.28
11.5000	2.49	2.73	3.04	3.50	4.20
12.0000	5.37	7.19	9.78	12.94	16.33
12.5000	19.60	23.55	28.04	32.17	35.77
13.0000	38.85	41.45	43.60	46.04	49.19
13.5000	51.31	52.53	53.02	52.92	52.37
14.0000	51.47	50.32	48.98	47.52	45.98
14.5000	44.64	43.96	43.22	42.46	41.67
15.0000	40.87	40.07	39.26	38.45	37.63
15.5000	36.83	36.05	35.27	34.50	33.74
16.0000	33.01	32.29	31.58	30.87	30.19

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
16.5000	29.54	28.91	28.29	27.68	27.09
17.0000	26.52	26.00	25.48	24.98	24.48
17.5000	24.00	23.53	23.12	22.72	22.34
18.0000	21.96	21.58	21.22	20.86	20.55
18.5000	20.27	20.02	19.79	19.56	19.33
19.0000	19.10	18.87	18.64	18.41	18.19
19.5000	17.96	17.74	17.52	17.31	17.09
20.0000	16.87	16.66	16.44	16.23	16.02
20.5000	15.81	15.61	15.41	15.21	15.01
21.0000	14.81	14.62	14.42	14.23	14.05
21.5000	13.87	13.69	13.51	13.34	13.17
22.0000	13.00	12.84	12.68	12.53	12.37
22.5000	12.22	12.08	11.93	11.79	11.65
23.0000	11.51	11.38	11.25	11.12	11.00
23.5000	10.88	10.76	10.64	10.52	10.41
24.0000	10.30				

ICPM HYDROGRAPH...
HYG file = J:\0675B\PONDPACK\PERSIMMO.HYG
HYG ID = K-B LAKE OUT
HYG Tag = 25

Peak Discharge = 71.81 cfs
Time to Peak = 13.5000 hrs
HYG Volume = 28.784 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
.0000	.00	.00	.00	.00	.00
.5000	.00	.00	.00	.00	.00
1.0000	.00	.00	.00	.00	.00
1.5000	.00	.00	.00	.00	.00
2.0000	.00	.00	.00	.00	.00
2.5000	.00	.00	.00	.00	.00
3.0000	.00	.00	.00	.00	.00
3.5000	.00	.00	.00	.00	.01
4.0000	.01	.01	.01	.02	.02
4.5000	.02	.03	.03	.04	.04
5.0000	.05	.05	.06	.07	.07
5.5000	.08	.09	.09	.10	.11
6.0000	.12	.13	.14	.15	.16
6.5000	.17	.18	.19	.20	.22
7.0000	.23	.24	.25	.27	.28
7.5000	.30	.31	.33	.34	.36
8.0000	.37	.39	.41	.42	.44
8.5000	.46	.48	.50	.52	.55
9.0000	.57	.60	.65	.70	.76
9.5000	.81	.87	.93	.99	1.06
10.0000	1.12	1.19	1.26	1.34	1.42
10.5000	1.51	1.60	1.72	1.85	1.99
11.0000	2.15	2.32	2.50	2.70	2.92
11.5000	3.20	3.52	3.91	4.45	5.32
12.0000	6.73	8.90	11.93	15.57	19.37
12.5000	24.29	30.10	35.59	40.37	44.39
13.0000	51.56	58.58	64.51	68.37	70.82
13.5000	71.81	71.41	69.99	68.12	65.84
14.0000	63.30	60.63	57.90	55.19	53.15
14.5000	51.21	49.27	47.37	45.51	44.35
15.0000	43.59	42.81	42.01	41.21	40.41
15.5000	39.60	38.80	38.00	37.22	36.44
16.0000	35.67	34.92	34.18	33.45	32.75

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
16.5000	32.07	31.39	30.73	30.08	29.47
17.0000	28.87	28.29	27.73	27.16	26.62
17.5000	26.13	25.65	25.17	24.70	24.25
18.0000	23.81	23.39	23.02	22.66	22.31
18.5000	21.95	21.61	21.27	20.94	20.63
19.0000	20.37	20.12	19.91	19.69	19.47
19.5000	19.25	19.04	18.83	18.61	18.40
20.0000	18.18	17.97	17.76	17.54	17.33
20.5000	17.12	16.92	16.71	16.50	16.30
21.0000	16.10	15.90	15.70	15.51	15.32
21.5000	15.14	14.95	14.77	14.59	14.41
22.0000	14.24	14.07	13.90	13.74	13.58
22.5000	13.42	13.26	13.11	12.96	12.81
23.0000	12.67	12.53	12.39	12.25	12.12
23.5000	11.99	11.86	11.73	11.60	11.49
24.0000	11.37				

ICPM HYDROGRAPH...
HYG file = J:\0675B\PONDPACK\PERSIMMO.HYG
HYG ID = K-B LAKE CUT
HYG Tag = 100

Peak Discharge =	128.78 cfs
Time to Peak =	13.2000 hrs
HYG Volume =	40.734 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
.0000	.00	.00	.00	.00	.00
.5000	.00	.00	.00	.00	.00
1.0000	.00	.00	.00	.00	.00
1.5000	.00	.00	.00	.00	.00
2.0000	.00	.00	.00	.00	.00
2.5000	.00	.00	.00	.00	.00
3.0000	.00	.00	.01	.01	.01
3.5000	.01	.02	.02	.03	.03
4.0000	.04	.04	.05	.05	.06
4.5000	.07	.08	.09	.09	.10
5.0000	.11	.12	.13	.14	.16
5.5000	.17	.18	.19	.21	.22
6.0000	.24	.25	.27	.28	.30
6.5000	.31	.33	.35	.37	.39
7.0000	.41	.43	.45	.47	.49
7.5000	.51	.53	.56	.58	.62
8.0000	.67	.71	.76	.81	.86
8.5000	.92	.97	1.03	1.09	1.15
9.0000	1.22	1.29	1.37	1.45	1.53
9.5000	1.61	1.72	1.84	1.96	2.08
10.0000	2.21	2.34	2.48	2.63	2.78
10.5000	2.95	3.15	3.36	3.59	3.83
11.0000	4.09	4.38	4.71	5.07	5.46
11.5000	5.90	6.43	7.08	7.96	9.31
12.0000	11.45	14.66	18.89	25.49	34.67
12.5000	43.98	64.91	88.20	106.48	118.64
13.0000	125.57	128.58	128.78	126.76	123.35
13.5000	118.86	113.52	107.71	102.05	96.29
14.0000	90.59	85.37	80.60	76.03	71.71
14.5000	67.73	64.26	60.95	57.86	55.00
15.0000	53.02	51.16	49.37	47.64	45.97
15.5000	44.64	43.99	43.32	42.65	41.96
16.0000	41.28	40.59	39.90	39.21	38.51

HYDROGRAPH ORDINATES (cfs)
Output Time increment = .1000 hrs
Time on left represents time for first value in each row.

Time hrs					
16.5000	37.83	37.15	36.50	35.85	35.21
17.0000	34.58	33.96	33.37	32.79	32.22
17.5000	31.66	31.11	30.58	30.06	29.57
18.0000	29.09	28.62	28.16	27.71	27.27
18.5000	26.84	26.44	26.05	25.67	25.30
19.0000	24.93	24.57	24.22	23.87	23.52
19.5000	23.22	22.93	22.64	22.35	22.06
20.0000	21.78	21.49	21.21	20.93	20.67
20.5000	20.45	20.22	20.03	19.84	19.66
21.0000	19.47	19.29	19.10	18.92	18.74
21.5000	18.56	18.39	18.21	18.03	17.86
22.0000	17.69	17.51	17.34	17.18	17.01
22.5000	16.85	16.69	16.53	16.37	16.21
23.0000	16.05	15.90	15.75	15.60	15.45
23.5000	15.31	15.16	15.02	14.88	14.75
24.0000	14.61				