

0.5YR

NOTE: The summary statistics displayed in this report are based on results found at every computational time step, not just on results from each reporting time step.

Analysis Options

Flow Units LPS
Process Models:
 Rainfall/Runoff YES
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed NO
 Water Quality NO
Infiltration Method CURVE_NUMBER
Flow Routing Method KINWAVE
Starting Date JAN-01-2015 00:00:00
Ending Date JAN-03-2015 23:50:00
Antecedent Dry Days 0.0
Report Time Step 00:15:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step 30.00 sec

Runoff Quantity Continuity	Volume hectare-m	Depth mm
Total Precipitation	5.953	30.800
Evaporation Loss	0.000	0.000
Infiltration Loss	5.657	29.270
Surface Runoff	0.048	0.247
Final Storage	0.248	1.282
Continuity Error (%)	-0.000	

Flow Routing Continuity	Volume hectare-m	Volume 10 ⁶ ltr
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	0.048	0.478
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	0.017	0.165
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.031	0.310
Continuity Error (%)	0.623	

Highest Flow Instability Indexes

All links are stable.

Routing Time Step Summary

Minimum Time Step : 29.00 sec
Average Time Step : 30.00 sec
Maximum Time Step : 30.00 sec
Percent in Steady State : 0.00
Average Iterations per Step : 1.00
Percent Not Converging : 0.00

Subcatchment Runoff Summary

Subcatchment	Total Precip mm	Total Runon mm	Total Evap mm	Total Infil mm	Total Runoff mm	Total Runoff 10 ⁶ ltr	Peak Runoff LPS	Runoff Coeff
S1	30.80	0.00	0.00	29.50	0.03	0.00	0.36	0.001
S2	30.80	0.00	0.00	29.54	0.00	0.00	0.00	0.000
S3	30.80	0.00	0.00	29.54	0.00	0.00	0.00	0.000
S4	30.80	0.00	0.00	29.55	0.00	0.00	0.00	0.000
S5	30.80	0.00	0.00	29.04	0.50	0.06	2.85	0.016
S6	30.80	0.00	0.00	28.73	0.81	0.08	3.61	0.026
S7	30.80	0.00	0.00	29.55	0.00	0.00	0.00	0.000
S8	30.80	0.00	0.00	29.55	0.00	0.00	0.00	0.000
S9	30.80	0.00	0.00	29.54	0.00	0.00	0.00	0.000
S10	30.80	0.00	0.00	19.20	8.93	0.31	7.57	0.290
S11	30.80	0.00	0.00	29.55	0.00	0.00	0.00	0.000
S12	30.80	0.00	0.00	29.34	0.20	0.02	1.41	0.007
S13	30.80	0.00	0.00	29.55	0.00	0.00	0.00	0.000
S14	30.80	0.00	0.00	29.49	0.05	0.00	0.32	0.002
S15	30.80	0.00	0.00	29.55	0.00	0.00	0.00	0.000
S16	30.80	0.00	0.00	29.55	0.00	0.00	0.00	0.000
S17	30.80	0.00	0.00	29.55	0.00	0.00	0.00	0.000
S18	30.80	0.00	0.00	29.55	0.00	0.00	0.00	0.000
S19	30.80	0.00	0.00	29.55	0.00	0.00	0.00	0.000
S20	30.80	0.00	0.00	29.55	0.00	0.00	0.00	0.000
S21	30.80	0.00	0.00	29.55	0.00	0.00	0.00	0.000
S22	30.80	0.00	0.00	29.55	0.00	0.00	0.00	0.000
S23	30.80	0.00	0.00	29.55	0.00	0.00	0.00	0.000
S24	30.80	0.00	0.00	29.50	0.04	0.00	0.47	0.001

Node Depth Summary

Node	Type	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time of Max Occurrence days hr:min	Reported Max Depth Meters
J1	JUNCTION	0.00	0.01	50.01	1 00:25	0.00
J2	JUNCTION	0.00	0.02	54.02	1 00:25	0.01
J3	JUNCTION	0.00	0.02	56.02	1 00:17	0.01
J4	JUNCTION	0.00	0.01	59.01	1 00:08	0.00
J5	JUNCTION	0.00	0.01	62.01	1 00:02	0.00
J6	JUNCTION	0.00	0.01	63.01	1 00:00	0.00
J7	JUNCTION	0.00	0.01	64.01	0 22:01	0.00
J8	JUNCTION	0.00	0.01	65.01	0 22:00	0.00
J9	JUNCTION	0.00	0.01	62.01	1 00:11	0.00
J10	JUNCTION	0.00	0.00	81.00	0 00:00	0.00
J11	JUNCTION	0.00	0.00	65.00	0 00:00	0.00
OUT1	OUTFALL	0.00	0.01	41.01	1 00:29	0.00
P1	STORAGE	0.00	0.01	59.51	1 01:10	0.00
P2	STORAGE	0.00	0.01	64.01	1 00:11	0.00
P12	STORAGE	0.01	0.02	82.02	1 17:35	0.01

Node Inflow Summary

Node	Type	Lateral Inflow LPS	Total Inflow LPS	Time of Max Occurrence days hr:min	Inflow Volume 10^6 ltr	Inflow Volume 10^6 ltr	Balance Error Percent
J1	JUNCTION	0.36	8.02	1 00:25	0.00332	0.165	0.000
J2	JUNCTION	0.00	7.77	1 00:25	0	0.163	0.000
J3	JUNCTION	0.00	7.78	1 00:17	0	0.164	0.000
J4	JUNCTION	0.00	5.06	1 00:08	0	0.101	0.000
J5	JUNCTION	0.00	5.07	1 00:02	0	0.101	0.000
J6	JUNCTION	1.74	5.07	1 00:00	0.0203	0.101	0.000
J7	JUNCTION	0.00	3.61	0 22:01	0	0.0802	-0.000
J8	JUNCTION	3.61	3.61	0 22:00	0.0802	0.0802	0.000
J9	JUNCTION	0.00	2.62	1 00:11	0	0.0603	0.000
J10	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 ltr
J11	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 ltr
OUT1	OUTFALL	0.00	8.02	1 00:29	0	0.165	0.000
P1	STORAGE	0.47	0.47	1 00:00	0.00432	0.00432	-0.001
P2	STORAGE	2.85	2.85	1 00:00	0.0604	0.0604	-0.000
P12	STORAGE	7.57	7.57	0 15:00	0.31	0.31	0.000

Node Surge Summary

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Meters	Min. Depth Below Rim Meters
J1	JUNCTION	71.83	0.010	1.990
J2	JUNCTION	71.83	0.017	1.983
J3	JUNCTION	71.83	0.017	1.983
J4	JUNCTION	71.83	0.012	1.988
J5	JUNCTION	71.83	0.013	0.987
J6	JUNCTION	71.83	0.013	0.987
J7	JUNCTION	71.83	0.010	0.990
J8	JUNCTION	71.83	0.009	0.991
J9	JUNCTION	71.83	0.006	0.994
J10	JUNCTION	71.83	0.000	1.000
J11	JUNCTION	71.83	0.000	1.000
P1	STORAGE	71.83	0.006	2.994
P2	STORAGE	71.83	0.006	1.994
P12	STORAGE	71.83	0.018	0.982

Node Flooding Summary

No nodes were flooded.

Storage Volume Summary

Storage Unit	Average Volume 1000 m3	Avg Pcnt Full	Evap Pcnt	Exfil Pcnt Loss	Maximum Volume 1000 m3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow LPS
P1	0.001	0	0	0	0.003	0	1 01:10	0.12
P2	0.002	0	0	0	0.017	0	1 00:11	2.62
P12	0.227	1	0	0	0.310	2	1 17:25	0.00

Outfall Loading Summary

Outfall Node	Flow Freq Pent	Avg Flow LPS	Max Flow LPS	Total Volume 10^6 ltr
OUT1	21.48	2.97	8.02	0.165
System	21.48	2.97	8.02	0.165

Link Flow Summary

Link	Type	Maximum [Flow] LPS	Time of Max Occurrence days hr:min	Maximum [Veloc] m/sec	Max/ Full Flow	Max/ Full Depth
C1	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C2	CONDUIT	5.07	1 00:02	0.39	0.00	0.01
C3	CONDUIT	5.06	1 00:08	0.48	0.00	0.01
C4	CONDUIT	5.07	1 00:16	0.43	0.00	0.01
C5	CONDUIT	7.77	1 00:25	0.44	0.00	0.01
C6	CONDUIT	7.77	1 00:26	0.83	0.00	0.01
C7	CONDUIT	2.61	1 00:20	0.42	0.00	0.01
C8	CONDUIT	3.61	0 22:01	0.41	0.00	0.01
C9	CONDUIT	3.61	0 22:05	0.34	0.00	0.01
C10	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C12	CONDUIT	8.02	1 00:29	0.76	0.00	0.01
C21	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
O1a	ORIFICE	0.12	1 01:10			0.00
O1b	ORIFICE	0.00	0 00:00			0.00
O1c	ORIFICE	0.00	0 00:00			0.00
1	WEIR	2.62	1 00:11			0.00
W1	WEIR	0.00	0 00:00			0.00

Conduit Surge Summary

No conduits were surcharged.

Analysis begun on: Mon Feb 20 13:17:47 2017
Analysis ended on: Mon Feb 20 13:17:47 2017
Total elapsed time: < 1 sec

1YR

NOTE: The summary statistics displayed in this report are based on results found at every computational time step, not just on results from each reporting time step.

Analysis Options

Flow Units LPS
Process Models:
 Rainfall/Runoff YES
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed NO
 Water Quality NO
Infiltration Method CURVE_NUMBER
Flow Routing Method KINWAVE
Starting Date JAN-01-2015 00:00:00
Ending Date JAN-03-2015 23:50:00
Antecedent Dry Days 0.0
Report Time Step 00:15:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step 30.00 sec

Runoff Quantity Continuity	Volume hectare-m	Depth mm
Total Precipitation	7.615	39.400
Evaporation Loss	0.000	0.000
Infiltration Loss	6.980	36.117
Surface Runoff	0.392	2.029
Final Storage	0.242	1.254
Continuity Error (%)	-0.000	

Flow Routing Continuity	Volume hectare-m	Volume 10 ⁶ ltr
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	0.392	3.922
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	0.339	3.391
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.053	0.528
Continuity Error (%)	0.053	

Highest Flow Instability Indexes

All links are stable.

Routing Time Step Summary

Minimum Time Step : 29.00 sec
Average Time Step : 30.00 sec
Maximum Time Step : 30.00 sec
Percent in Steady State : 0.00
Average Iterations per Step : 1.00
Percent Not Converging : 0.00

Subcatchment Runoff Summary

Subcatchment	Total Precip mm	Total Runon mm	Total Evap mm	Total Infil mm	Total Runoff mm	Total Runoff 10 ⁶ ltr	Peak Runoff LPS	Runoff Coeff
S1	39.40	0.00	0.00	36.54	1.60	0.17	5.44	0.041
S2	39.40	0.00	0.00	37.23	0.91	0.08	3.23	0.023
S3	39.40	0.00	0.00	36.81	1.33	0.18	6.46	0.034
S4	39.40	0.00	0.00	36.92	1.21	0.05	1.72	0.031
S5	39.40	0.00	0.00	34.87	3.27	0.40	11.00	0.083
S6	39.40	0.00	0.00	34.16	3.99	0.39	12.82	0.101
S7	39.40	0.00	0.00	36.18	1.97	0.14	4.67	0.050
S8	39.40	0.00	0.00	36.53	1.62	0.02	0.56	0.041
S9	39.40	0.00	0.00	36.46	1.70	0.17	5.69	0.043
S10	39.40	0.00	0.00	22.93	15.21	0.53	18.11	0.386
S11	39.40	0.00	0.00	37.28	0.87	0.05	1.83	0.022
S12	39.40	0.00	0.00	35.32	2.82	0.25	7.83	0.072
S13	39.40	0.00	0.00	36.37	1.78	0.05	1.63	0.045
S14	39.40	0.00	0.00	35.83	2.31	0.11	3.42	0.059
S15	39.40	0.00	0.00	36.76	1.39	0.06	2.38	0.035
S16	39.40	0.00	0.00	36.99	1.17	0.15	5.87	0.030
S17	39.40	0.00	0.00	36.89	1.25	0.05	1.86	0.032
S18	39.40	0.00	0.00	36.63	1.52	0.08	2.96	0.039
S19	39.40	0.00	0.00	36.79	1.35	0.12	4.43	0.034
S20	39.40	0.00	0.00	36.82	1.32	0.08	2.86	0.033
S21	39.40	0.00	0.00	36.95	1.20	0.12	4.68	0.030
S22	39.40	0.00	0.00	36.24	1.92	0.34	11.42	0.049
S23	39.40	0.00	0.00	36.79	1.34	0.14	5.32	0.034
S24	39.40	0.00	0.00	36.32	1.83	0.19	6.02	0.046

Node Depth Summary

Node	Type	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time of Max Occurrence days hr:min	Reported Max Depth Meters
J1	JUNCTION	0.01	0.05	50.05	1 00:00	0.01
J2	JUNCTION	0.01	0.07	54.07	1 00:03	0.02
J3	JUNCTION	0.01	0.07	56.07	1 00:00	0.02
J4	JUNCTION	0.01	0.04	59.04	1 00:00	0.01
J5	JUNCTION	0.01	0.04	62.04	0 18:05	0.01
J6	JUNCTION	0.01	0.04	63.04	0 18:02	0.01
J7	JUNCTION	0.00	0.03	64.03	0 18:01	0.01
J8	JUNCTION	0.00	0.02	65.02	0 17:00	0.01
J9	JUNCTION	0.00	0.02	62.02	0 18:57	0.00
J10	JUNCTION	0.00	0.00	81.00	0 00:00	0.00
J11	JUNCTION	0.00	0.01	65.01	1 00:00	0.00
OUT1	OUTFALL	0.01	0.05	41.05	1 00:01	0.01
P1	STORAGE	0.01	0.07	59.57	1 00:07	0.02
P2	STORAGE	0.00	0.02	64.02	0 18:43	0.00
P12	STORAGE	0.02	0.03	82.03	1 14:46	0.01

Node Inflow Summary

Node	Type	Lateral Inflow LPS	Total Inflow LPS	Time of Max Occurrence days hr:min	Inflow Volume 10^6 ltr	Inflow Volume 10^6 ltr	Balance Error Percent
J1	JUNCTION	10.75	102.95	1 00:00	0.312	3.39	0.000
J2	JUNCTION	13.75	92.21	1 00:00	0.427	3.08	0.000
J3	JUNCTION	13.00	78.56	1 00:00	0.349	2.66	0.000
J4	JUNCTION	13.16	48.80	1 00:00	0.35	1.67	0.000
J5	JUNCTION	5.34	39.07	0 18:05	0.148	1.32	0.000
J6	JUNCTION	12.81	35.15	0 18:02	0.411	1.17	0.000
J7	JUNCTION	6.25	21.63	0 18:01	0.186	0.718	0.000
J8	JUNCTION	16.46	16.46	0 17:00	0.531	0.531	0.000
J9	JUNCTION	1.72	11.77	0 18:57	0.0454	0.441	0.000
J10	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 ltr
J11	JUNCTION	1.83	1.83	1 00:00	0.0462	0.0462	0.000
OUT1	OUTFALL	0.00	102.95	1 00:01	0	3.39	0.000
P1	STORAGE	6.02	6.02	1 00:00	0.193	0.193	-0.000
P2	STORAGE	11.00	11.00	0 18:00	0.395	0.395	-0.000
P12	STORAGE	18.11	18.11	0 13:00	0.528	0.528	-0.000

Node Surcharge Summary

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Meters	Min. Depth Below Rim Meters
J1	JUNCTION	71.83	0.046	1.954
J2	JUNCTION	71.83	0.066	1.934
J3	JUNCTION	71.83	0.066	1.934
J4	JUNCTION	71.83	0.044	1.956
J5	JUNCTION	71.83	0.040	0.960
J6	JUNCTION	71.83	0.040	0.960
J7	JUNCTION	71.83	0.030	0.970
J8	JUNCTION	71.83	0.021	0.979
J9	JUNCTION	71.83	0.015	0.985
J10	JUNCTION	71.83	0.000	1.000
J11	JUNCTION	71.83	0.008	0.992
P1	STORAGE	71.83	0.074	2.926
P2	STORAGE	71.83	0.016	1.984
P12	STORAGE	71.83	0.030	0.970

Node Flooding Summary

No nodes were flooded.

Storage Volume Summary

Storage Unit	Average Volume 1000 m3	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 m3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow LPS
P1	0.008	0	0	0	0.047	1	1 00:07	5.73
P2	0.007	0	0	0	0.042	1	0 18:42	10.60
P12	0.394	2	0	0	0.528	3	1 14:35	0.00

Outfall Loading Summary

Outfall Node	Flow Freq Pent	Avg Flow LPS	Max Flow LPS	Total Volume 10^6 ltr
OUT1	36.64	35.80	102.95	3.391
System	36.64	35.80	102.95	3.391

Link Flow Summary

Link	Type	Maximum [Flow] LPS	Time of Max Occurrence days hr:min	Maximum [Veloc] m/sec	Max/ Full Flow	Max/ Full Depth
C1	CONDUIT	1.83	1 00:10	0.24	0.00	0.01
C2	CONDUIT	35.14	0 18:05	0.79	0.00	0.04
C3	CONDUIT	39.06	0 18:08	1.02	0.00	0.03
C4	CONDUIT	48.82	1 00:02	0.98	0.00	0.03
C5	CONDUIT	78.56	1 00:03	1.00	0.00	0.04
C6	CONDUIT	92.20	1 00:01	2.08	0.00	0.03
C7	CONDUIT	11.77	0 19:03	0.74	0.00	0.02
C8	CONDUIT	16.45	0 17:02	0.73	0.00	0.02
C9	CONDUIT	21.62	0 18:03	0.66	0.00	0.03
C10	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C12	CONDUIT	102.95	1 00:01	1.95	0.00	0.03
C21	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
O1a	ORIFICE	5.73	1 00:07			0.00
O1b	ORIFICE	0.00	0 00:00			0.00
O1c	ORIFICE	0.00	0 00:00			0.00
1	WEIR	10.60	0 18:43			0.00
W1	WEIR	0.00	0 00:00			0.00

Conduit Surcharge Summary

No conduits were surcharged.

Analysis begun on: Mon Feb 20 13:18:10 2017
Analysis ended on: Mon Feb 20 13:18:10 2017
Total elapsed time: < 1 sec

2YR

NOTE: The summary statistics displayed in this report are based on results found at every computational time step, not just on results from each reporting time step.

Analysis Options

Flow Units LPS
Process Models:
 Rainfall/Runoff YES
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed NO
 Water Quality NO
Infiltration Method CURVE_NUMBER
Flow Routing Method KINWAVE
Starting Date JAN-01-2015 00:00:00
Ending Date JAN-03-2015 23:50:00
Antecedent Dry Days 0.0
Report Time Step 00:15:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step 30.00 sec

Runoff Quantity Continuity	Volume hectare-m	Depth mm
Total Precipitation	9.569	49.508
Evaporation Loss	0.000	0.000
Infiltration Loss	8.217	42.514
Surface Runoff	1.108	5.731
Final Storage	0.244	1.264
Continuity Error (%)	-0.002	

Flow Routing Continuity	Volume hectare-m	Volume 10 ⁶ ltr
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	1.108	11.077
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	1.026	10.259
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.082	0.819
Continuity Error (%)	-0.011	

Highest Flow Instability Indexes

All links are stable.

Routing Time Step Summary

Minimum Time Step : 29.00 sec
Average Time Step : 30.00 sec
Maximum Time Step : 30.00 sec
Percent in Steady State : 0.00
Average Iterations per Step : 1.00
Percent Not Converging : 0.00

Subcatchment Runoff Summary

Subcatchment	Total Precip mm	Total Runon mm	Total Evap mm	Total Infil mm	Total Runoff mm	Total Runoff 10 ⁶ ltr	Peak Runoff LPS	Runoff Coeff
S1	49.51	0.00	0.00	43.11	5.14	0.54	12.74	0.104
S2	49.51	0.00	0.00	44.44	3.81	0.35	8.33	0.077
S3	49.51	0.00	0.00	43.54	4.71	0.63	15.77	0.095
S4	49.51	0.00	0.00	43.75	4.51	0.17	4.25	0.091
S5	49.51	0.00	0.00	40.53	7.72	0.94	26.50	0.156
S6	49.51	0.00	0.00	39.64	8.61	0.85	37.41	0.174
S7	49.51	0.00	0.00	42.54	5.71	0.39	13.30	0.115
S8	49.51	0.00	0.00	43.04	5.22	0.05	1.50	0.106
S9	49.51	0.00	0.00	42.90	5.35	0.54	15.08	0.108
S10	49.51	0.00	0.00	24.18	23.58	0.82	35.88	0.476
S11	49.51	0.00	0.00	44.53	3.74	0.20	4.76	0.076
S12	49.51	0.00	0.00	41.25	6.99	0.62	20.49	0.141
S13	49.51	0.00	0.00	42.81	5.45	0.15	4.67	0.110
S14	49.51	0.00	0.00	41.98	6.27	0.30	9.09	0.127
S15	49.51	0.00	0.00	43.41	4.86	0.23	5.93	0.098
S16	49.51	0.00	0.00	43.82	4.44	0.58	14.47	0.090
S17	49.51	0.00	0.00	43.68	4.58	0.18	4.57	0.093
S18	49.51	0.00	0.00	43.18	5.07	0.28	7.63	0.102
S19	49.51	0.00	0.00	43.48	4.78	0.42	10.99	0.097
S20	49.51	0.00	0.00	43.55	4.71	0.27	7.06	0.095
S21	49.51	0.00	0.00	43.79	4.49	0.46	11.53	0.091
S22	49.51	0.00	0.00	42.60	5.64	1.01	32.73	0.114
S23	49.51	0.00	0.00	43.51	4.76	0.51	13.16	0.096
S24	49.51	0.00	0.00	42.70	5.54	0.58	14.42	0.112

Node Depth Summary

Node	Type	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time of Max Occurrence days hr:min	Reported Max Depth Meters
J1	JUNCTION	0.01	0.08	50.08	0 16:08	0.02
J2	JUNCTION	0.02	0.11	54.11	0 16:10	0.03
J3	JUNCTION	0.02	0.11	56.11	0 16:07	0.03
J4	JUNCTION	0.01	0.08	59.08	0 15:06	0.02
J5	JUNCTION	0.01	0.07	62.07	0 14:05	0.02
J6	JUNCTION	0.01	0.07	63.07	0 14:03	0.02
J7	JUNCTION	0.01	0.06	64.06	0 14:01	0.02
J8	JUNCTION	0.01	0.04	65.04	0 14:00	0.01
J9	JUNCTION	0.00	0.03	62.03	0 16:00	0.01
J10	JUNCTION	0.00	0.00	81.00	0 00:00	0.00
J11	JUNCTION	0.00	0.01	65.01	0 22:00	0.00
OUT1	OUTFALL	0.01	0.08	41.08	0 16:09	0.02
P1	STORAGE	0.03	0.13	59.63	0 18:48	0.04
P2	STORAGE	0.00	0.03	64.03	0 15:40	0.01
P12	STORAGE	0.04	0.05	82.05	1 16:43	0.01

Node Inflow Summary

Node	Type	Lateral Inflow LPS	Total Inflow LPS	Time of Max Occurrence days hr:min	Inflow Volume 10^6 ltr	Inflow Volume 10^6 ltr	Balance Error Percent
J1	JUNCTION	25.79	265.10	0 16:08	1.05	10.3	0.000
J2	JUNCTION	38.30	240.13	0 16:05	1.36	9.21	0.000
J3	JUNCTION	31.87	203.27	0 16:07	1.27	7.85	0.000
J4	JUNCTION	32.37	134.33	0 15:06	1.28	4.89	0.000
J5	JUNCTION	13.49	107.43	0 14:06	0.504	3.61	0.000
J6	JUNCTION	33.54	96.89	0 14:03	1.07	3.11	0.000
J7	JUNCTION	16.59	61.58	0 14:01	0.588	1.84	0.000
J8	JUNCTION	47.58	47.58	0 14:00	1.25	1.25	0.000
J9	JUNCTION	4.25	29.76	0 16:00	0.169	1.1	0.000
J10	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 ltr
J11	JUNCTION	4.76	4.76	0 22:00	0.199	0.199	0.000
OUT1	OUTFALL	0.00	265.10	0 16:09	0	10.3	0.000
P1	STORAGE	14.42	14.42	0 17:00	0.584	0.584	-0.000
P2	STORAGE	26.50	26.50	0 15:00	0.935	0.935	-0.000
P12	STORAGE	35.88	35.88	0 13:00	0.818	0.818	0.000

Node Surcharging Summary

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Meters	Min. Depth Below Rim Meters
J1	JUNCTION	71.83	0.080	1.920
J2	JUNCTION	71.83	0.112	1.888
J3	JUNCTION	71.83	0.112	1.888
J4	JUNCTION	71.83	0.079	1.921
J5	JUNCTION	71.83	0.072	0.928
J6	JUNCTION	71.83	0.072	0.928
J7	JUNCTION	71.83	0.055	0.945
J8	JUNCTION	71.83	0.040	0.960
J9	JUNCTION	71.83	0.026	0.974
J10	JUNCTION	71.83	0.000	1.000
J11	JUNCTION	71.83	0.014	0.986
P1	STORAGE	71.83	0.134	2.866
P2	STORAGE	71.83	0.029	1.971
P12	STORAGE	71.83	0.046	0.954

Node Flooding Summary

No nodes were flooded.

Storage Volume Summary

Storage Unit	Average Volume 1000 m3	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 m3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow LPS
P1	0.017	0	0	0	0.087	2	0 18:47	13.82
P2	0.013	0	0	0	0.077	1	0 15:40	25.82
P12	0.619	3	0	0	0.818	4	1 16:35	0.00

Outfall Loading Summary

Outfall Node	Flow Freq Pent	Avg Flow LPS	Max Flow LPS	Total Volume 10^6 ltr
OUT1	40.07	99.00	265.10	10.259
System	40.07	99.00	265.10	10.259

Link Flow Summary

Link	Type	Maximum [Flow] LPS	Time of Max Occurrence days hr:min	Maximum [Veloc] m/sec	Max/ Full Flow	Max/ Full Depth
C1	CONDUIT	4.76	0 22:06	0.34	0.00	0.01
C2	CONDUIT	96.85	0 14:05	1.11	0.00	0.07
C3	CONDUIT	107.40	0 14:08	1.44	0.00	0.06
C4	CONDUIT	134.30	0 15:09	1.37	0.00	0.05
C5	CONDUIT	203.25	0 16:10	1.36	0.00	0.07
C6	CONDUIT	240.13	0 16:05	2.88	0.00	0.05
C7	CONDUIT	29.76	0 16:03	1.05	0.00	0.03
C8	CONDUIT	47.57	0 14:01	1.07	0.00	0.04
C9	CONDUIT	61.52	0 14:03	0.95	0.00	0.06
C10	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C12	CONDUIT	265.10	0 16:09	2.68	0.00	0.05
C21	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
O1a	ORIFICE	13.82	0 18:48			0.00
O1b	ORIFICE	0.00	0 00:00			0.00
O1c	ORIFICE	0.00	0 00:00			0.00
1	WEIR	25.82	0 15:40			0.00
W1	WEIR	0.00	0 00:00			0.00

Conduit Surcharging Summary

No conduits were surcharged.

Analysis begun on: Mon Feb 20 13:18:33 2017
Analysis ended on: Mon Feb 20 13:18:33 2017
Total elapsed time: < 1 sec

5YR

NOTE: The summary statistics displayed in this report are based on results found at every computational time step, not just on results from each reporting time step.

Analysis Options

Flow Units LPS
Process Models:
 Rainfall/Runoff YES
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed NO
 Water Quality NO
Infiltration Method CURVE_NUMBER
Flow Routing Method KINWAVE
Starting Date JAN-01-2015 00:00:00
Ending Date JAN-03-2015 23:50:00
Antecedent Dry Days 0.0
Report Time Step 00:15:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step 30.00 sec

	Volume hectare-m	Depth mm
Runoff Quantity Continuity		

Total Precipitation	12.835	66.411
Evaporation Loss	0.000	0.000
Infiltration Loss	9.997	51.727
Surface Runoff	2.594	13.423
Final Storage	0.245	1.266
Continuity Error (%)	-0.008	

	Volume hectare-m	Volume 10 ⁶ ltr
Flow Routing Continuity		

Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	2.594	25.943
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	2.462	24.617
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.133	1.331
Continuity Error (%)	-0.022	

Highest Flow Instability Indexes

All links are stable.

Routing Time Step Summary

Minimum Time Step : 29.00 sec
Average Time Step : 30.00 sec
Maximum Time Step : 30.00 sec
Percent in Steady State : 0.00
Average Iterations per Step : 1.00
Percent Not Converging : 0.00

Subcatchment Runoff Summary

Subcatchment	Total Precip mm	Total Runon mm	Total Evap mm	Total Infil mm	Total Runoff mm	Total Runoff 10 ⁶ ltr	Peak Runoff LPS	Runoff Coeff
S1	66.41	0.00	0.00	52.38	12.77	1.35	36.47	0.192
S2	66.41	0.00	0.00	54.55	10.61	0.98	23.13	0.160
S3	66.41	0.00	0.00	53.20	11.98	1.60	48.89	0.180
S4	66.41	0.00	0.00	53.49	11.66	0.44	13.12	0.176
S5	66.41	0.00	0.00	48.58	16.59	2.01	83.66	0.250
S6	66.41	0.00	0.00	47.52	17.66	1.75	125.62	0.266
S7	66.41	0.00	0.00	51.96	13.23	0.91	53.36	0.199
S8	66.41	0.00	0.00	52.55	12.61	0.13	5.30	0.190
S9	66.41	0.00	0.00	52.35	12.82	1.28	52.19	0.193
S10	66.41	0.00	0.00	25.92	36.35	1.33	73.62	0.578
S11	66.41	0.00	0.00	54.67	10.48	0.56	13.36	0.158
S12	66.41	0.00	0.00	49.86	15.30	1.36	72.50	0.230
S13	66.41	0.00	0.00	52.27	12.90	0.36	17.71	0.194
S14	66.41	0.00	0.00	50.94	14.22	0.68	32.62	0.214
S15	66.41	0.00	0.00	53.02	12.13	0.56	19.14	0.183
S16	66.41	0.00	0.00	53.61	11.55	1.51	44.17	0.174
S17	66.41	0.00	0.00	53.41	11.76	0.46	14.29	0.177
S18	66.41	0.00	0.00	52.74	12.41	0.68	25.56	0.187
S19	66.41	0.00	0.00	53.14	12.03	1.07	35.23	0.181
S20	66.41	0.00	0.00	53.21	11.94	0.70	22.48	0.180
S21	66.41	0.00	0.00	53.53	11.63	1.19	35.48	0.175
S22	66.41	0.00	0.00	52.04	13.14	2.34	130.30	0.198
S23	66.41	0.00	0.00	53.17	12.00	1.28	42.09	0.181
S24	66.41	0.00	0.00	51.83	13.34	1.41	43.47	0.201

Node Depth Summary

Node	Type	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time of Max Occurrence days hr:min	Reported Max Depth Meters
J1	JUNCTION	0.02	0.16	50.16	0 13:09	0.05
J2	JUNCTION	0.03	0.21	54.21	0 13:10	0.06
J3	JUNCTION	0.03	0.21	56.21	0 13:07	0.06
J4	JUNCTION	0.02	0.16	59.16	0 13:03	0.05
J5	JUNCTION	0.02	0.15	62.15	0 13:01	0.05
J6	JUNCTION	0.02	0.15	63.15	0 13:00	0.05
J7	JUNCTION	0.01	0.12	64.12	0 12:51	0.04
J8	JUNCTION	0.01	0.08	65.08	0 12:30	0.03
J9	JUNCTION	0.01	0.05	62.05	0 13:55	0.02
J10	JUNCTION	0.00	0.00	81.00	0 00:00	0.00
J11	JUNCTION	0.00	0.02	65.02	0 16:00	0.01
OUT1	OUTFALL	0.02	0.16	41.16	0 13:10	0.05
P1	STORAGE	0.06	0.35	59.85	0 17:05	0.11
P2	STORAGE	0.01	0.06	64.06	0 13:50	0.02
P12	STORAGE	0.06	0.08	82.08	1 18:20	0.02

Node Inflow Summary

Node	Type	Lateral Inflow LPS	Total Inflow LPS	Time of Max Occurrence days hr:min	Inflow Volume 10 ⁶ ltr	Inflow Volume 10 ⁶ ltr	Balance Error Percent
J1	JUNCTION	78.56	886.64	0 13:09	2.63	24.6	0.000
J2	JUNCTION	147.69	813.76	0 13:09	3.33	22	0.000
J3	JUNCTION	98.66	673.84	0 13:07	3.26	18.7	0.000
J4	JUNCTION	101.88	495.63	0 13:03	3.27	11.6	0.000
J5	JUNCTION	44.11	401.72	0 13:01	1.24	8.28	0.000
J6	JUNCTION	122.83	357.65	0 13:00	2.4	7.03	0.000
J7	JUNCTION	57.48	228.28	0 12:51	1.41	4.07	0.000
J8	JUNCTION	174.09	174.09	0 12:30	2.66	2.66	0.000
J9	JUNCTION	13.12	88.95	0 13:55	0.437	2.45	0.000
J10	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 ltr
J11	JUNCTION	13.36	13.36	0 16:00	0.558	0.558	-0.000
OUT1	OUTFALL	0.00	886.56	0 13:10	0	24.6	0.000
P1	STORAGE	43.47	43.47	0 14:00	1.41	1.41	-0.000
P2	STORAGE	83.66	83.66	0 13:00	2.01	2.01	-0.000
P12	STORAGE	73.62	73.62	0 12:30	1.33	1.33	-0.000

Node Surcharge Summary

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Meters	Min. Depth Below Rim Meters
J1	JUNCTION	71.83	0.155	1.845
J2	JUNCTION	71.83	0.213	1.787
J3	JUNCTION	71.83	0.213	1.787
J4	JUNCTION	71.83	0.162	1.838
J5	JUNCTION	71.83	0.148	0.852
J6	JUNCTION	71.83	0.148	0.852
J7	JUNCTION	71.83	0.116	0.884
J8	JUNCTION	71.83	0.084	0.916
J9	JUNCTION	71.83	0.050	0.950
J10	JUNCTION	71.83	0.000	1.000
J11	JUNCTION	71.83	0.025	0.975
P1	STORAGE	71.83	0.352	2.648
P2	STORAGE	71.83	0.061	1.939
P12	STORAGE	71.83	0.075	0.925

Node Flooding Summary

No nodes were flooded.

Storage Volume Summary

Storage Unit	Average Volume 1000 m3	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 m3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow LPS
P1	0.038	1	0	0	0.244	6	0 17:05	33.30
P2	0.021	0	0	0	0.157	3	0 13:49	76.00
P12	1.020	6	0	0	1.331	7	1 18:10	0.00

Outfall Loading Summary

Outfall Node	Flow Freq Pent	Avg Flow LPS	Max Flow LPS	Total Volume 10 ⁶ ltr
OUT1	41.43	229.79	886.56	24.617
System	41.43	229.79	886.56	24.617

Link Flow Summary

Link	Type	Maximum [Flow] LPS	Time of Max Occurrence days hr:min	Maximum [Veloc] m/sec	Max/ Full Flow	Max/ Full Depth
C1	CONDUIT	13.36	0 16:04	0.50	0.00	0.02
C2	CONDUIT	357.61	0 13:01	1.67	0.02	0.15
C3	CONDUIT	401.61	0 13:02	2.20	0.01	0.13
C4	CONDUIT	495.43	0 13:05	2.06	0.01	0.11
C5	CONDUIT	673.33	0 13:10	1.93	0.01	0.14
C6	CONDUIT	813.76	0 13:09	4.23	0.01	0.09
C7	CONDUIT	88.95	0 13:58	1.55	0.00	0.05
C8	CONDUIT	173.99	0 12:32	1.65	0.01	0.08
C9	CONDUIT	228.11	0 12:52	1.45	0.01	0.12
C10	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C12	CONDUIT	886.56	0 13:10	3.89	0.01	0.10
C21	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
O1a	ORIFICE	33.25	0 17:05	0.00	0.00	0.00
O1b	ORIFICE	0.05	0 17:05	0.00	0.00	0.00
O1c	ORIFICE	0.00	0 00:00	0.00	0.00	0.00
1	WEIR	76.00	0 13:50	0.00	0.00	0.00
W1	WEIR	0.00	0 00:00	0.00	0.00	0.00

Conduit Surcharge Summary

No conduits were surcharged.

Analysis begun on: Mon Feb 20 13:18:50 2017
Analysis ended on: Mon Feb 20 13:18:51 2017
Total elapsed time: 00:00:01

10YR

NOTE: The summary statistics displayed in this report are based on results found at every computational time step, not just on results from each reporting time step.

Analysis Options

Flow Units LPS
Process Models:
 Rainfall/Runoff YES
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed NO
 Water Quality NO
Infiltration Method CURVE_NUMBER
Flow Routing Method KINWAVE
Starting Date JAN-01-2015 00:00:00
Ending Date JAN-03-2015 23:50:00
Antecedent Dry Days 0.0
Report Time Step 00:15:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step 30.00 sec

	Volume hectare-m	Depth mm
Runoff Quantity Continuity		

Total Precipitation	15.214	78.718
Evaporation Loss	0.000	0.000
Infiltration Loss	11.119	57.531
Surface Runoff	3.850	19.922
Final Storage	0.246	1.273
Continuity Error (%)	-0.009	

	Volume hectare-m	Volume 10 ⁶ ltr
Flow Routing Continuity		

Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	3.850	38.503
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	3.679	36.788
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.172	1.720
Continuity Error (%)	-0.012	

Highest Flow Instability Indexes

All links are stable.

Routing Time Step Summary

Minimum Time Step : 29.00 sec
Average Time Step : 30.00 sec
Maximum Time Step : 30.00 sec
Percent in Steady State : 0.00
Average Iterations per Step : 1.00
Percent Not Converging : 0.00

Subcatchment Runoff Summary

Subcatchment	Total Precip mm	Total Runon mm	Total Evap mm	Total Infil mm	Total Runoff mm	Total Runoff 10 ⁶ ltr	Peak Runoff LPS	Runoff Coeff
S1	78.72	0.00	0.00	58.16	19.31	2.03	64.09	0.245
S2	78.72	0.00	0.00	60.87	16.62	1.54	40.74	0.211
S3	78.72	0.00	0.00	59.26	18.20	2.43	90.07	0.231
S4	78.72	0.00	0.00	59.67	17.79	0.67	24.12	0.226
S5	78.72	0.00	0.00	53.53	23.94	2.90	145.92	0.304
S6	78.72	0.00	0.00	52.39	25.10	2.48	232.48	0.319
S7	78.72	0.00	0.00	57.96	19.53	1.35	102.02	0.248
S8	78.72	0.00	0.00	58.63	18.85	0.19	10.02	0.239
S9	78.72	0.00	0.00	58.35	19.13	1.92	98.61	0.243
S10	78.72	0.00	0.00	26.75	49.55	1.72	107.28	0.629
S11	78.72	0.00	0.00	61.06	16.44	0.87	23.76	0.209
S12	78.72	0.00	0.00	55.28	22.20	1.97	129.47	0.282
S13	78.72	0.00	0.00	58.29	19.17	0.54	32.77	0.244
S14	78.72	0.00	0.00	56.60	20.86	1.00	58.83	0.265
S15	78.72	0.00	0.00	59.17	18.32	0.85	36.85	0.233
S16	78.72	0.00	0.00	59.80	17.67	2.31	80.52	0.224
S17	78.72	0.00	0.00	59.59	17.90	0.71	26.48	0.227
S18	78.72	0.00	0.00	58.84	18.63	1.02	49.47	0.237
S19	78.72	0.00	0.00	59.26	18.21	1.61	67.05	0.231
S20	78.72	0.00	0.00	59.38	18.11	1.06	42.38	0.230
S21	78.72	0.00	0.00	59.72	17.75	1.82	65.03	0.226
S22	78.72	0.00	0.00	58.04	19.43	3.47	244.42	0.247
S23	78.72	0.00	0.00	59.30	18.17	1.94	79.83	0.231
S24	78.72	0.00	0.00	57.51	19.95	2.10	78.97	0.253

Node Depth Summary

Node	Type	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time of Max Occurrence days hr:min	Reported Max Depth Meters
J1	JUNCTION	0.03	0.22	50.22	0 13:00	0.07
J2	JUNCTION	0.04	0.29	54.29	0 13:03	0.09
J3	JUNCTION	0.04	0.29	56.29	0 13:01	0.09
J4	JUNCTION	0.03	0.22	59.22	0 12:52	0.07
J5	JUNCTION	0.02	0.20	62.20	0 12:32	0.06
J6	JUNCTION	0.02	0.20	63.20	0 12:31	0.06
J7	JUNCTION	0.01	0.16	64.16	0 12:30	0.05
J8	JUNCTION	0.01	0.12	65.12	0 12:20	0.04
J9	JUNCTION	0.01	0.07	62.07	0 13:18	0.02
J10	JUNCTION	0.00	0.00	81.00	0 00:00	0.00
J11	JUNCTION	0.01	0.04	65.04	0 14:00	0.01
OUT1	OUTFALL	0.03	0.22	41.22	0 13:01	0.07
P1	STORAGE	0.08	0.45	59.95	0 14:47	0.14
P2	STORAGE	0.01	0.09	64.09	0 13:18	0.03
P12	STORAGE	0.08	0.10	82.10	1 19:28	0.03

Node Inflow Summary

Node	Type	Lateral Inflow LPS	Total Inflow LPS	Time of Max Occurrence days hr:min	Inflow Volume 10 ⁶ ltr	Inflow Volume 10 ⁶ ltr	Balance Error Percent
J1	JUNCTION	143.50	1649.20	0 13:00	3.98	36.8	0.000
J2	JUNCTION	271.94	1505.80	0 13:00	5	32.8	0.000
J3	JUNCTION	181.59	1246.64	0 13:01	4.96	27.8	0.000
J4	JUNCTION	189.95	899.79	0 12:52	4.98	17.2	0.000
J5	JUNCTION	86.32	729.10	0 12:33	1.87	12.2	0.000
J6	JUNCTION	218.57	653.26	0 12:31	3.51	10.3	0.000
J7	JUNCTION	108.63	422.99	0 12:30	2.11	5.94	0.000
J8	JUNCTION	332.47	332.47	0 12:20	3.83	3.83	0.000
J9	JUNCTION	24.12	157.44	0 13:18	0.667	3.57	0.000
J10	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 ltr
J11	JUNCTION	23.76	23.76	0 14:00	0.874	0.874	0.000
OUT1	OUTFALL	0.00	1648.94	0 13:01	0	36.8	0.000
P1	STORAGE	78.97	78.97	0 13:00	2.1	2.1	0.015
P2	STORAGE	145.92	145.92	0 13:00	2.9	2.9	-0.000
P12	STORAGE	107.28	107.28	0 12:30	1.72	1.72	0.000

Node Surcharging Summary

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Meters	Min. Depth Below Rim Meters
J1	JUNCTION	71.83	0.215	1.785
J2	JUNCTION	71.83	0.291	1.709
J3	JUNCTION	71.83	0.291	1.709
J4	JUNCTION	71.83	0.222	1.778
J5	JUNCTION	71.83	0.204	0.796
J6	JUNCTION	71.83	0.204	0.796
J7	JUNCTION	71.83	0.163	0.837
J8	JUNCTION	71.83	0.121	0.879
J9	JUNCTION	71.83	0.069	0.931
J10	JUNCTION	71.83	0.000	1.000
J11	JUNCTION	71.83	0.035	0.965
P1	STORAGE	71.83	0.453	2.547
P2	STORAGE	71.83	0.088	1.912
P12	STORAGE	71.83	0.097	0.903

Node Flooding Summary

No nodes were flooded.

Storage Volume Summary

Storage Unit	Average Volume 1000 m3	Avg Pcnt Full	Evap Pcnt	Exfil Pcnt Loss	Maximum Volume 1000 m3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow LPS
P1	0.052	1	0	0	0.324	8	0 14:47	65.59
P2	0.026	1	0	0	0.229	4	0 13:18	133.71
P12	1.326	7	0	0	1.720	9	1 19:20	0.00

Outfall Loading Summary

Outfall Node	Flow Freq Pent	Avg Flow LPS	Max Flow LPS	Total Volume 10 ⁶ ltr
OUT1	42.11	337.81	1648.94	36.788
System	42.11	337.81	1648.94	36.788

Link Flow Summary

Link	Type	Maximum [Flow] LPS	Time of Max Occurrence days hr:min	Maximum [Veloc] m/sec	Max/ Full Flow	Max/ Full Depth
C1	CONDUIT	23.68	0 14:11	0.61	0.00	0.03
C2	CONDUIT	653.00	0 12:32	1.99	0.03	0.20
C3	CONDUIT	728.83	0 12:34	2.61	0.03	0.18
C4	CONDUIT	899.64	0 12:54	2.44	0.02	0.15
C5	CONDUIT	1246.25	0 13:03	2.29	0.03	0.19
C6	CONDUIT	1505.70	0 13:00	5.06	0.01	0.13
C7	CONDUIT	157.41	0 13:20	1.89	0.00	0.07
C8	CONDUIT	331.83	0 12:21	2.03	0.01	0.12
C9	CONDUIT	422.98	0 12:31	1.75	0.02	0.16
C10	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C12	CONDUIT	1648.94	0 13:01	4.65	0.01	0.14
C21	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
O1a	ORIFICE	38.94	0 14:47			0.00
O1b	ORIFICE	26.65	0 14:47			0.00
O1c	ORIFICE	0.00	0 00:00			0.00
1	WEIR	133.71	0 13:18			0.00
W1	WEIR	0.00	0 00:00			0.00

Conduit Surcharging Summary

No conduits were surcharged.

Analysis begun on: Mon Feb 20 13:19:12 2017
Analysis ended on: Mon Feb 20 13:19:12 2017
Total elapsed time: < 1 sec

20YR

NOTE: The summary statistics displayed in this report are based on results found at every computational time step, not just on results from each reporting time step.

Analysis Options

Flow Units LPS
Process Models:
 Rainfall/Runoff YES
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed NO
 Water Quality NO
Infiltration Method CURVE_NUMBER
Flow Routing Method KINWAVE
Starting Date JAN-01-2015 00:00:00
Ending Date JAN-03-2015 23:50:00
Antecedent Dry Days 0.0
Report Time Step 00:15:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step 30.00 sec

Runoff Quantity Continuity	Volume hectare-m	Depth mm
Total Precipitation	17.692	91.541
Evaporation Loss	0.000	0.000
Infiltration Loss	12.165	62.945
Surface Runoff	5.282	27.330
Final Storage	0.247	1.276
Continuity Error (%)	-0.011	

Flow Routing Continuity	Volume hectare-m	Volume 10 ⁶ ltr
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	5.282	52.821
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	5.069	50.689
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.213	2.133
Continuity Error (%)	-0.002	

Highest Flow Instability Indexes

All links are stable.

Routing Time Step Summary

Minimum Time Step : 29.00 sec
Average Time Step : 30.00 sec
Maximum Time Step : 30.00 sec
Percent in Steady State : 0.00
Average Iterations per Step : 1.00
Percent Not Converging : 0.00

Subcatchment Runoff Summary

Subcatchment	Total Precip mm	Total Runon mm	Total Evap mm	Total Infil mm	Total Runoff mm	Total Runoff 10 ⁶ ltr	Peak Runoff LPS	Runoff Coeff
S1	91.54	0.00	0.00	63.49	26.80	2.82	105.80	0.293
S2	91.54	0.00	0.00	66.70	23.59	2.18	65.10	0.258
S3	91.54	0.00	0.00	64.96	25.33	3.38	149.73	0.277
S4	91.54	0.00	0.00	65.47	24.83	0.93	40.41	0.271
S5	91.54	0.00	0.00	58.07	32.22	3.90	225.72	0.352
S6	91.54	0.00	0.00	56.86	33.45	3.31	363.64	0.365
S7	91.54	0.00	0.00	63.57	26.72	1.84	175.88	0.292
S8	91.54	0.00	0.00	64.32	25.98	0.26	16.29	0.284
S9	91.54	0.00	0.00	63.96	26.34	2.64	158.75	0.288
S10	91.54	0.00	0.00	27.42	61.46	2.13	146.51	0.671
S11	91.54	0.00	0.00	66.97	23.34	1.24	37.94	0.255
S12	91.54	0.00	0.00	60.30	30.02	2.66	212.07	0.328
S13	91.54	0.00	0.00	63.97	26.33	0.74	54.84	0.288
S14	91.54	0.00	0.00	61.89	28.42	1.36	96.17	0.310
S15	91.54	0.00	0.00	64.89	25.41	1.18	60.02	0.278
S16	91.54	0.00	0.00	65.60	24.70	3.23	135.59	0.270
S17	91.54	0.00	0.00	65.34	24.95	0.99	44.15	0.273
S18	91.54	0.00	0.00	64.54	25.75	1.41	79.88	0.281
S19	91.54	0.00	0.00	65.03	25.29	2.24	109.97	0.276
S20	91.54	0.00	0.00	65.12	25.18	1.47	69.92	0.275
S21	91.54	0.00	0.00	65.51	24.79	2.54	109.14	0.271
S22	91.54	0.00	0.00	63.70	26.61	4.75	418.84	0.291
S23	91.54	0.00	0.00	65.07	25.25	2.70	131.22	0.276
S24	91.54	0.00	0.00	62.81	27.49	2.90	128.40	0.300

Node Depth Summary

Node	Type	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time of Max Occurrence days hr:min	Reported Max Depth Meters
J1	JUNCTION	0.03	0.27	50.27	0 12:38	0.08
J2	JUNCTION	0.04	0.36	54.36	0 12:55	0.11
J3	JUNCTION	0.05	0.36	56.36	0 12:53	0.11
J4	JUNCTION	0.03	0.29	59.29	0 12:31	0.09
J5	JUNCTION	0.02	0.26	62.26	0 12:23	0.08
J6	JUNCTION	0.02	0.26	63.26	0 12:22	0.08
J7	JUNCTION	0.02	0.21	64.21	0 12:21	0.06
J8	JUNCTION	0.01	0.16	65.16	0 12:20	0.05
J9	JUNCTION	0.01	0.09	62.09	0 13:05	0.03
J10	JUNCTION	0.00	0.00	81.00	0 00:00	0.00
J11	JUNCTION	0.01	0.05	65.05	0 14:00	0.01
OUT1	OUTFALL	0.03	0.27	41.27	0 12:39	0.08
P1	STORAGE	0.09	0.54	60.04	0 14:02	0.16
P2	STORAGE	0.01	0.12	64.12	0 13:06	0.04
P12	STORAGE	0.09	0.12	82.12	1 20:32	0.04

Node Inflow Summary

Node	Type	Lateral Inflow LPS	Total Inflow LPS	Time of Max Occurrence days hr:min	Inflow Volume 10^6 ltr	Inflow Volume 10^6 ltr	Balance Error Percent
J1	JUNCTION	237.02	2627.03	0 12:38	5.53	50.7	0.000
J2	JUNCTION	463.80	2406.61	0 12:37	6.93	45.2	-0.000
J3	JUNCTION	303.02	1973.23	0 12:53	6.91	38.2	0.000
J4	JUNCTION	315.48	1485.59	0 12:31	6.94	23.6	0.000
J5	JUNCTION	139.79	1208.02	0 12:24	2.59	16.7	0.000
J6	JUNCTION	360.95	1080.65	0 12:22	4.77	14.1	0.000
J7	JUNCTION	175.04	704.80	0 12:21	2.9	8.05	0.000
J8	JUNCTION	539.52	539.52	0 12:20	5.16	5.16	0.000
J9	JUNCTION	40.41	250.85	0 13:05	0.931	4.83	0.000
J10	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 ltr
J11	JUNCTION	37.94	37.94	0 14:00	1.24	1.24	0.000
OUT1	OUTFALL	0.00	2626.93	0 12:39	0	50.7	0.000
P1	STORAGE	128.40	128.40	0 13:00	2.9	2.9	0.026
P2	STORAGE	225.72	225.72	0 12:30	3.9	3.9	0.007
P12	STORAGE	146.51	146.51	0 12:20	2.13	2.13	-0.000

Node Surcharge Summary

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Meters	Min. Depth Below Rim Meters
J1	JUNCTION	71.83	0.273	1.727
J2	JUNCTION	71.83	0.365	1.635
J3	JUNCTION	71.83	0.365	1.635
J4	JUNCTION	71.83	0.286	1.714
J5	JUNCTION	71.83	0.264	0.736
J6	JUNCTION	71.83	0.264	0.736
J7	JUNCTION	71.83	0.213	0.787
J8	JUNCTION	71.83	0.157	0.843
J9	JUNCTION	71.83	0.090	0.910
J10	JUNCTION	71.83	0.000	1.000
J11	JUNCTION	71.83	0.046	0.954
P1	STORAGE	71.83	0.535	2.465
P2	STORAGE	71.83	0.120	1.880
P12	STORAGE	71.83	0.121	0.879

Node Flooding Summary

No nodes were flooded.

Storage Volume Summary

Storage Unit	Average Volume 1000 m3	Avg Pcnt Full	Evap Pcnt	Exfil Pcnt Loss	Maximum Volume 1000 m3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow LPS
P1	0.062	1	0	0	0.393	10	0 14:02	107.69
P2	0.031	3	0	0	0.311	6	0 13:06	211.09
P12	1.653	9	0	0	2.133	12	1 20:25	0.00

Outfall Loading Summary

Outfall Node	Flow Freq Pent	Avg Flow LPS	Max Flow LPS	Total Volume 10^6 ltr
OUT1	42.94	456.53	2626.93	50.688
System	42.94	456.53	2626.93	50.688

Link Flow Summary

Link	Type	Maximum [Flow] LPS	Time of Max Occurrence days hr:min	Maximum [Veloc] m/sec	Max/ Full Flow	Max/ Full Depth
C1	CONDUIT	37.95	0 14:03	0.73	0.00	0.05
C2	CONDUIT	1079.82	0 12:23	2.29	0.06	0.26
C3	CONDUIT	1207.31	0 12:25	3.02	0.04	0.23
C4	CONDUIT	1485.33	0 12:33	2.80	0.02	0.19
C5	CONDUIT	1973.09	0 12:55	2.58	0.04	0.24
C6	CONDUIT	2406.59	0 12:38	5.78	0.02	0.16
C7	CONDUIT	250.79	0 13:07	2.19	0.01	0.09
C8	CONDUIT	538.74	0 12:21	2.34	0.02	0.16
C9	CONDUIT	702.94	0 12:22	2.03	0.04	0.21
C10	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C12	CONDUIT	2626.93	0 12:39	5.29	0.02	0.18
C21	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
O1a	ORIFICE	43.04	0 14:02			0.00
O1b	ORIFICE	64.66	0 14:02			0.00
O1c	ORIFICE	0.00	0 00:00			0.00
W1	WEIR	211.09	0 13:06			0.00
W1	WEIR	0.00	0 00:00			0.00

Conduit Surcharge Summary

No conduits were surcharged.

Analysis begun on: Mon Feb 20 13:19:34 2017
Analysis ended on: Mon Feb 20 13:19:34 2017
Total elapsed time: < 1 sec

50YR

NOTE: The summary statistics displayed in this report are based on results found at every computational time step, not just on results from each reporting time step.

Analysis Options

Flow Units LPS
Process Models:
 Rainfall/Runoff YES
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed NO
 Water Quality NO
Infiltration Method CURVE_NUMBER
Flow Routing Method KINWAVE
Starting Date JAN-01-2015 00:00:00
Ending Date JAN-03-2015 23:50:00
Antecedent Dry Days 0.0
Report Time Step 00:15:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step 30.00 sec

Runoff Quantity Continuity	Volume hectare-m	Depth mm
Total Precipitation	21.171	109.538
Evaporation Loss	0.000	0.000
Infiltration Loss	13.455	69.617
Surface Runoff	7.471	38.656
Final Storage	0.247	1.279
Continuity Error (%)	-0.013	

Flow Routing Continuity	Volume hectare-m	Volume 10 ⁶ ltr
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	7.471	74.712
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	7.198	71.985
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.272	2.724
Continuity Error (%)	0.004	

Highest Flow Instability Indexes

All links are stable.

Routing Time Step Summary

Minimum Time Step : 29.00 sec
Average Time Step : 30.00 sec
Maximum Time Step : 30.00 sec
Percent in Steady State : 0.00
Average Iterations per Step : 1.00
Percent Not Converging : 0.00

Subcatchment Runoff Summary

Subcatchment	Total Precip mm	Total Runon mm	Total Evap mm	Total Infil mm	Total Runoff mm	Total Runoff 10 ⁶ ltr	Peak Runoff LPS	Runoff Coeff
S1	109.54	0.00	0.00	70.01	38.28	4.03	177.76	0.349
S2	109.54	0.00	0.00	73.89	34.40	3.18	113.05	0.314
S3	109.54	0.00	0.00	72.01	36.29	4.84	250.97	0.331
S4	109.54	0.00	0.00	72.64	35.68	1.34	68.05	0.326
S5	109.54	0.00	0.00	63.58	44.73	5.42	370.79	0.408
S6	109.54	0.00	0.00	62.26	46.05	4.56	566.95	0.420
S7	109.54	0.00	0.00	70.58	37.72	2.60	295.14	0.344
S8	109.54	0.00	0.00	71.41	36.92	0.37	28.16	0.337
S9	109.54	0.00	0.00	70.93	37.38	3.74	272.96	0.341
S10	109.54	0.00	0.00	28.05	78.49	2.72	205.55	0.717
S11	109.54	0.00	0.00	74.24	34.05	1.81	66.53	0.311
S12	109.54	0.00	0.00	66.40	41.90	3.72	355.47	0.382
S13	109.54	0.00	0.00	70.99	37.30	1.05	95.50	0.340
S14	109.54	0.00	0.00	68.36	39.94	1.91	163.66	0.365
S15	109.54	0.00	0.00	72.00	36.30	1.69	101.24	0.331
S16	109.54	0.00	0.00	72.78	35.53	4.65	228.82	0.324
S17	109.54	0.00	0.00	72.50	35.80	1.41	74.19	0.327
S18	109.54	0.00	0.00	71.63	36.66	2.01	137.12	0.335
S19	109.54	0.00	0.00	72.14	36.16	3.20	183.73	0.330
S20	109.54	0.00	0.00	72.27	36.05	2.10	116.96	0.329
S21	109.54	0.00	0.00	72.69	35.63	3.66	183.92	0.325
S22	109.54	0.00	0.00	70.72	37.60	6.71	714.70	0.343
S23	109.54	0.00	0.00	72.18	36.12	3.87	219.17	0.330
S24	109.54	0.00	0.00	69.27	39.02	4.11	211.81	0.356

Node Depth Summary

Node	Type	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time of Max Occurrence days hr:min	Reported Max Depth Meters
J1	JUNCTION	0.04	0.35	50.35	0 12:30	0.11
J2	JUNCTION	0.05	0.47	54.47	0 12:34	0.14
J3	JUNCTION	0.05	0.47	56.47	0 12:33	0.14
J4	JUNCTION	0.04	0.37	59.37	0 12:23	0.11
J5	JUNCTION	0.03	0.34	62.34	0 12:22	0.10
J6	JUNCTION	0.03	0.34	63.34	0 12:21	0.10
J7	JUNCTION	0.02	0.27	64.27	0 12:20	0.08
J8	JUNCTION	0.01	0.20	65.20	0 12:20	0.06
J9	JUNCTION	0.01	0.12	62.12	0 12:55	0.04
J10	JUNCTION	0.00	0.00	81.00	0 00:00	0.00
J11	JUNCTION	0.01	0.06	65.06	0 13:00	0.02
OUT1	OUTFALL	0.04	0.35	41.35	0 12:31	0.11
P1	STORAGE	0.10	0.65	60.15	0 13:26	0.20
P2	STORAGE	0.01	0.16	64.16	0 12:55	0.05
P12	STORAGE	0.12	0.15	82.15	1 22:02	0.05

Node Inflow Summary

Node	Type	Lateral Inflow LPS	Total Inflow LPS	Time of Max Occurrence days hr:min	Inflow Volume 10^6 ltr	Inflow Volume 10^6 ltr	Balance Error Percent
J1	JUNCTION	395.29	4468.14	0 12:30	7.9	72	0.000
J2	JUNCTION	802.66	4085.07	0 12:29	9.89	64.1	0.000
J3	JUNCTION	509.08	3353.11	0 12:33	9.91	54.2	-0.000
J4	JUNCTION	529.32	2532.06	0 12:23	9.96	33.4	0.000
J5	JUNCTION	238.35	2037.10	0 12:22	3.7	23.5	0.000
J6	JUNCTION	614.64	1805.09	0 12:21	6.68	19.8	0.000
J7	JUNCTION	301.02	1153.77	0 12:20	4.11	11.3	-0.000
J8	JUNCTION	853.02	853.02	0 12:20	7.16	7.16	0.000
J9	JUNCTION	68.05	407.66	0 12:55	1.34	6.75	0.000
J10	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 ltr
J11	JUNCTION	66.53	66.53	0 13:00	1.81	1.81	0.000
OUT1	OUTFALL	0.00	4467.72	0 12:31	0	72	0.000
P1	STORAGE	211.81	211.81	0 12:50	4.11	4.11	0.042
P2	STORAGE	370.79	370.79	0 12:30	5.42	5.42	0.030
P12	STORAGE	205.55	205.55	0 12:20	2.72	2.72	0.000

Node Surcharge Summary

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Meters	Min. Depth Below Rim Meters
J1	JUNCTION	71.83	0.354	1.646
J2	JUNCTION	71.83	0.469	1.531
J3	JUNCTION	71.83	0.469	1.531
J4	JUNCTION	71.83	0.371	1.629
J5	JUNCTION	71.83	0.340	0.660
J6	JUNCTION	71.83	0.340	0.660
J7	JUNCTION	71.83	0.273	0.727
J8	JUNCTION	71.83	0.200	0.800
J9	JUNCTION	71.83	0.118	0.882
J10	JUNCTION	71.83	0.000	1.000
J11	JUNCTION	71.83	0.064	0.936
P1	STORAGE	71.83	0.653	2.347
P2	STORAGE	71.83	0.164	1.836
P12	STORAGE	71.83	0.154	0.846

Node Flooding Summary

No nodes were flooded.

Storage Volume Summary

Storage Unit	Average Volume 1000 m3	Avg Pcnt Full	Evap Pcnt	Exfil Pcnt Loss	Maximum Volume 1000 m3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow LPS
P1	0.072	2	0	0	0.496	12	0 13:26	183.56
P2	0.039	1	0	0	0.427	8	0 12:55	339.81
P12	2.123	12	0	0	2.724	15	1 21:55	0.00

Outfall Loading Summary

Outfall Node	Flow Freq Pent	Avg Flow LPS	Max Flow LPS	Total Volume 10^6 ltr
OUT1	44.14	630.62	4467.72	71.985
System	44.14	630.62	4467.72	71.985

Link Flow Summary

Link	Type	Maximum [Flow] LPS	Time of Max Occurrence days hr:min	Maximum [Veloc] m/sec	Max/ Full Flow	Max/ Full Depth
C1	CONDUIT	66.12	0 13:06	0.88	0.00	0.06
C2	CONDUIT	1803.95	0 12:22	2.63	0.09	0.34
C3	CONDUIT	2035.43	0 12:23	3.48	0.07	0.31
C4	CONDUIT	2528.66	0 12:25	3.23	0.04	0.25
C5	CONDUIT	3352.46	0 12:34	2.97	0.07	0.31
C6	CONDUIT	4085.09	0 12:29	6.67	0.03	0.21
C7	CONDUIT	407.61	0 12:57	2.55	0.01	0.12
C8	CONDUIT	852.74	0 12:20	2.68	0.03	0.20
C9	CONDUIT	1152.83	0 12:21	2.33	0.06	0.27
C10	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C12	CONDUIT	4467.72	0 12:31	6.11	0.04	0.24
C21	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
O1a	ORIFICE	48.28	0 13:26			0.00
O1b	ORIFICE	135.27	0 13:26			0.00
O1c	ORIFICE	0.00	0 00:00			0.00
W1	WEIR	339.81	0 12:55			0.00
W1	WEIR	0.00	0 00:00			0.00

Conduit Surcharge Summary

No conduits were surcharged.

Analysis begun on: Mon Feb 20 13:20:19 2017
Analysis ended on: Mon Feb 20 13:20:19 2017
Total elapsed time: < 1 sec

100YR

NOTE: The summary statistics displayed in this report are based on results found at every computational time step, not just on results from each reporting time step.

Analysis Options

Flow Units LPS
Process Models:
 Rainfall/Runoff YES
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed NO
 Water Quality NO
Infiltration Method CURVE_NUMBER
Flow Routing Method KINWAVE
Starting Date JAN-01-2015 00:00:00
Ending Date JAN-03-2015 23:50:00
Antecedent Dry Days 0.0
Report Time Step 00:15:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step 30.00 sec

	Volume hectare-m	Depth mm
Runoff Quantity Continuity		

Total Precipitation	24.016	124.262
Evaporation Loss	0.000	0.000
Infiltration Loss	14.384	74.423
Surface Runoff	9.388	48.572
Final Storage	0.248	1.284
Continuity Error (%)	-0.014	

	Volume hectare-m	Volume 10 ⁶ ltr
Flow Routing Continuity		

Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	9.388	93.877
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	9.066	90.658
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.321	3.214
Continuity Error (%)	0.005	

Highest Flow Instability Indexes

All links are stable.

Routing Time Step Summary

Minimum Time Step : 29.00 sec
Average Time Step : 30.00 sec
Maximum Time Step : 30.00 sec
Percent in Steady State : 0.00
Average Iterations per Step : 1.00
Percent Not Converging : 0.00

Subcatchment Runoff Summary

Subcatchment	Total Precip mm	Total Runon mm	Total Evap mm	Total Infil mm	Total Runoff mm	Total Runoff 10 ⁶ ltr	Peak Runoff LPS	Runoff Coeff
S1	124.26	0.00	0.00	74.70	48.34	5.09	246.74	0.389
S2	124.26	0.00	0.00	79.06	43.94	4.06	161.05	0.354
S3	124.26	0.00	0.00	77.08	45.93	6.13	351.12	0.370
S4	124.26	0.00	0.00	77.81	45.22	1.69	95.04	0.364
S5	124.26	0.00	0.00	67.46	55.58	6.73	511.68	0.447
S6	124.26	0.00	0.00	66.09	56.95	5.64	764.24	0.458
S7	124.26	0.00	0.00	75.65	47.38	3.27	403.51	0.381
S8	124.26	0.00	0.00	76.50	46.53	0.47	40.14	0.374
S9	124.26	0.00	0.00	75.97	47.08	4.71	389.35	0.379
S10	124.26	0.00	0.00	28.48	92.59	3.21	255.69	0.745
S11	124.26	0.00	0.00	79.50	43.51	2.31	94.72	0.350
S12	124.26	0.00	0.00	70.81	52.24	4.63	482.90	0.420
S13	124.26	0.00	0.00	76.12	46.93	1.32	133.21	0.378
S14	124.26	0.00	0.00	73.02	50.01	2.40	227.13	0.402
S15	124.26	0.00	0.00	77.15	45.87	2.13	143.94	0.369
S16	124.26	0.00	0.00	77.95	45.07	5.90	320.45	0.363
S17	124.26	0.00	0.00	77.67	45.35	1.79	104.17	0.365
S18	124.26	0.00	0.00	76.78	46.26	2.53	194.63	0.372
S19	124.26	0.00	0.00	77.30	45.73	4.05	262.46	0.368
S20	124.26	0.00	0.00	77.44	45.61	2.66	166.19	0.367
S21	124.26	0.00	0.00	77.86	45.17	4.63	256.84	0.364
S22	124.26	0.00	0.00	75.79	47.25	8.43	973.82	0.380
S23	124.26	0.00	0.00	77.34	45.69	4.89	312.71	0.368
S24	124.26	0.00	0.00	73.91	49.11	5.17	293.84	0.395

Node Depth Summary

Node	Type	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time of Max Occurrence days hr:min	Reported Max Depth Meters
J1	JUNCTION	0.04	0.42	50.42	0 12:27	0.13
J2	JUNCTION	0.06	0.55	54.55	0 12:28	0.17
J3	JUNCTION	0.06	0.55	56.55	0 12:26	0.17
J4	JUNCTION	0.04	0.43	59.43	0 12:22	0.13
J5	JUNCTION	0.03	0.39	62.39	0 12:21	0.12
J6	JUNCTION	0.03	0.39	63.39	0 12:20	0.12
J7	JUNCTION	0.02	0.32	64.32	0 12:20	0.10
J8	JUNCTION	0.02	0.23	65.23	0 12:10	0.07
J9	JUNCTION	0.01	0.14	62.14	0 12:47	0.04
J10	JUNCTION	0.00	0.00	81.00	0 00:00	0.00
J11	JUNCTION	0.01	0.08	65.08	0 13:00	0.02
OUT1	OUTFALL	0.04	0.42	41.42	0 12:28	0.13
P1	STORAGE	0.11	0.75	60.25	0 13:13	0.23
P2	STORAGE	0.02	0.20	64.20	0 12:47	0.06
P12	STORAGE	0.14	0.18	82.18	1 23:03	0.06

Node Inflow Summary

Node	Type	Lateral Inflow LPS	Total Inflow LPS	Time of Max Occurrence days hr:min	Inflow Volume 10^6 ltr	Inflow Volume 10^6 ltr	Balance Error Percent
J1	JUNCTION	550.97	6294.99	0 12:27	9.98	90.7	0.000
J2	JUNCTION	1107.06	5751.54	0 12:26	12.5	80.7	0.000
J3	JUNCTION	711.63	4726.74	0 12:26	12.6	68.2	0.000
J4	JUNCTION	746.39	3515.97	0 12:22	12.6	42	0.000
J5	JUNCTION	336.75	2791.26	0 12:21	4.67	29.4	0.000
J6	JUNCTION	843.24	2456.32	0 12:20	8.35	24.8	0.000
J7	JUNCTION	429.49	1549.29	0 12:20	5.18	14.1	0.000
J8	JUNCTION	1167.75	1167.75	0 12:10	8.91	8.91	0.000
J9	JUNCTION	95.04	556.32	0 12:47	1.69	8.42	0.000
J10	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 ltr
J11	JUNCTION	94.72	94.72	0 13:00	2.31	2.31	0.000
OUT1	OUTFALL	0.00	6294.22	0 12:28	0	90.7	0.000
P1	STORAGE	293.84	293.84	0 12:30	5.17	5.17	0.052
P2	STORAGE	511.68	511.68	0 12:20	6.73	6.73	0.041
P12	STORAGE	255.69	255.69	0 12:20	3.21	3.21	-0.000

Node Surcharging Summary

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Meters	Min. Depth Below Rim Meters
J1	JUNCTION	71.83	0.418	1.582
J2	JUNCTION	71.83	0.550	1.450
J3	JUNCTION	71.83	0.550	1.450
J4	JUNCTION	71.83	0.434	1.566
J5	JUNCTION	71.83	0.394	0.606
J6	JUNCTION	71.83	0.395	0.605
J7	JUNCTION	71.83	0.316	0.684
J8	JUNCTION	71.83	0.235	0.765
J9	JUNCTION	71.83	0.140	0.860
J10	JUNCTION	71.83	0.000	1.000
J11	JUNCTION	71.83	0.078	0.922
P1	STORAGE	71.83	0.753	2.247
P2	STORAGE	71.83	0.202	1.798
P12	STORAGE	71.83	0.182	0.818

Node Flooding Summary

No nodes were flooded.

Storage Volume Summary

Storage Unit	Average Volume 1000 m3	Avg Pcnt Full	Evap Pcnt	Exfil Pcnt Loss	Maximum Volume 1000 m3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow LPS
P1	0.080	2	0	0	0.590	15	0 13:13	260.37
P2	0.044	1	0	0	0.524	10	0 12:47	461.45
P12	2.513	14	0	0	3.213	17	1 22:55	0.00

Outfall Loading Summary

Outfall Node	Flow Freq Pent	Avg Flow LPS	Max Flow LPS	Total Volume 10^6 ltr
OUT1	45.31	773.66	6294.22	90.658
System	45.31	773.66	6294.22	90.658

Link Flow Summary

Link	Type	Maximum [Flow] LPS	Time of Max Occurrence days hr:min	Maximum [Veloc] m/sec	Max/ Full Flow	Max/ Full Depth
C1	CONDUIT	94.43	0 13:04	0.99	0.01	0.08
C2	CONDUIT	2454.63	0 12:21	2.85	0.13	0.39
C3	CONDUIT	2789.70	0 12:22	3.79	0.10	0.36
C4	CONDUIT	3512.39	0 12:24	3.52	0.06	0.29
C5	CONDUIT	4723.92	0 12:28	3.25	0.10	0.37
C6	CONDUIT	5751.55	0 12:27	7.31	0.04	0.25
C7	CONDUIT	556.25	0 12:49	2.80	0.02	0.14
C8	CONDUIT	1163.87	0 12:11	2.92	0.04	0.23
C9	CONDUIT	1549.26	0 12:21	2.52	0.08	0.32
C10	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C12	CONDUIT	6294.22	0 12:28	6.69	0.05	0.28
C21	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
O1a	ORIFICE	52.35	0 13:13			0.00
O1b	ORIFICE	208.02	0 13:13			0.00
O1c	ORIFICE	0.00	0 00:00			0.00
W1	WEIR	461.45	0 12:47			0.00
W1	WEIR	0.00	0 00:00			0.00

Conduit Surcharging Summary

No conduits were surcharged.

Analysis begun on: Mon Feb 20 13:20:50 2017
Analysis ended on: Mon Feb 20 13:20:50 2017
Total elapsed time: < 1 sec