

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.010)

TFG Mar-2016

Analysis Options

Flow Units CMS

Process Models:

Rainfall/Runoff YES

RDII NO

Snowmelt NO

Groundwater NO

Flow Routing YES

Ponding Allowed YES

Water Quality NO

Infiltration Method CURVE_NUMBER

Flow Routing Method DYNWAVE

Starting Date JAN-01-2001 00:00:00

Ending Date JAN-01-2001 05:00:00

Antecedent Dry Days 10.0

Report Time Step 00:01:00

Wet Time Step 00:01:00

Dry Time Step 01:00:00

Routing Time Step 2.00 sec

Variable Time Step YES

Maximum Trials 8

Number of Threads 1

Head Tolerance 0.001500 m

Control Actions Taken

*****	Volume	Depth
Runoff Quantity Continuity	hectare-m	mm
*****	-----	-----
Total Precipitation	5.842	85.819
Evaporation Loss	0.000	0.000
Infiltration Loss	0.054	0.798
Surface Runoff	5.693	83.623
Final Storage	0.096	1.410
Continuity Error (%)	-0.014	

*****	Volume	Volume
Flow Routing Continuity	hectare-m	10^6 ltr

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*****
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Dry Weather Inflow ..... 0.000 0.000
Wet Weather Inflow ..... 5.692 56.924
Groundwater Inflow ..... 0.000 0.000
RDII Inflow ..... 0.000 0.000
External Inflow ..... 0.000 0.000
External Outflow ..... 3.477 34.770
Flooding Loss ..... 1.714 17.139
Evaporation Loss ..... 0.000 0.000
Exfiltration Loss ..... 0.000 0.000
Initial Stored Volume .... 0.000 0.000
Final Stored Volume ..... 0.480 4.798
Continuity Error (%) ..... 0.383

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Highest Continuity Errors

Node N202070 (20.89%)
Node N201200 (19.27%)
Node N201124 (16.90%)
Node N201201 (14.85%)
Node N201203 (14.59%)

Time-Step Critical Elements

Link A33822 (31.53%)
Link A7980 (14.78%)
Link A50323 (12.19%)
Link A19305 (11.12%)
Link A48151 (7.49%)

Highest Flow Instability Indexes

Link A57257 (95)
Link A9020 (86)
Link A28345 (84)
Link A21964 (76)
Link A26403 (76)

Routing Time Step Summary

Minimum Time Step : 0.50 sec
Average Time Step : 0.69 sec

Maximum Time Step : 2.00 sec
Percent in Steady State : 0.00
Average Iterations per Step : 5.81
Percent Not Converging : 45.28

Analysis begun on: Mon May 30 21:46:06 2016
Analysis ended on: Mon May 30 21:48:35 2016
Total elapsed time: 00:02:29