EXAM #2 SWMM INPUT FILE (.inp)

[TITLE]

[OPTIONS]	
FLOW UNITS	MGD
INFILTRATION	HORTON
FLOW_ROUTING	DYNWAVE
START_DATE	04/08/2010
START_TIME	00:00:00
REPORT_START_DATE	04/08/2010
REPORT_START_TIME	00:00:00
END_DATE	04/09/2010
END_TIME	00:00:00
SWEEP_START	01/01
SWEEP_END	12/31
DRY_DAYS	0
REPORT_STEP	00:15:00
WET_STEP	00:15:00
DRY_STEP	01:00:00
ROUTING_STEP	0.5
ALLOW_PONDING	NO
INERTIAL_DAMPING	NONE
VARIABLE_STEP	0.75
LENGTHENING_STEP	0
MIN_SURFAREA	0
NORMAL_FLOW_LIMITED	FROUDE
SKIP_STEADY_STATE	NO
FORCE_MAIN_EQUATION	H-W
LINK_OFFSETS	DEPTH
MIN_SLOPE	0

[EVAPORATION]

;;Type Parameters ;;------CONSTANT 0.0

[JUNCTIONS]

;;	Invert	Max.	Init.	Surcharge	
;;Name	Elev.	Depth	Depth	Depth	Area
;;					
1	0.075	0	5.92	0	0
2	0.15	0	5.85	0	0

3 4 5 6	.225 .3 .375 .45	0 0 0	5.77 5.70 5.62 5.55	0 0 0		0 0 0 0					
[OUTFALLS] ;; ;;Name ;;	Invert Elev.	Туре	Stage/Tage/Time Se	able ries	Gate						
7	0	FIXED	6		NO						
[CONDUITS] ;; Name	Inlet Node	Outl Node		Leng	th	Mannin N	g Inle Offs			Init. Flow	Max. Flow
1 2 3 4 5	6 5 4 3 2	5 4 3 2 1 7		15 15 15 15 15 15		0.01 0.01 0.01 0.01 0.01 0.01	0 0 0 0 0	0 0 0 0 0		0 0 0 0 0 0 0	0 0 0 0 0 0
[XSECTIONS];;Link	Shape	Geom1		Geom2	Geo	m3	Geom4	Barrel	S		
;;	RECT_CLOSEI RECT_CLOSEI RECT_CLOSEI RECT_CLOSEI RECT_CLOSEI RECT_CLOSEI	0 10 0 10 0 10 0 10		14 14 14 14 14 14	0 0 0 0 0		0 0 0 0 0	1 1 1 1 1 1			
[LOSSES] ;;Link ;;	Inlet	Outlet	Average	Flap	Gate						
[INFLOWS];; ;;Node	Parameter	Time	Series	Para Type	F		Factor		Baseline Pattern		
;; 6	FLOW	" "		FLOW		.0	1.0	35.0			

[REPORT]

INPUT NO
CONTROLS NO
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]

DIMENSIONS 0.000 0.000 10000.000 10000.000

Units None

[COORDINATES]

;;Node	X-Coord	Y-Coord
;;		
1	-584.757	8436.268
2	466.491	8423.127
3	1741.130	8396.846
4	2897.503	8383.706
5	3843.627	8357.424
6	4618.922	8291.721
7	-1517.740	8423.127
[VERTICES]		
;;Link	X-Coord	Y-Coord
;;		
1	3896.189	8357.424

EXAM #2 SWMM SUMMARY REPORT

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.014)

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 MGD

Process Models:

Rainfall/Runoff NO
Snowmelt NO
Groundwater NO
Flow Routing YES
Water Quality NO

Flow Routing Method DYNWAVE

Starting Date APR-08-2010 00:00:00 Ending Date APR-09-2010 00:00:00

Antecedent Dry Days 0.0

Report Time Step 00:15:00 Routing Time Step 0.50 sec

*******	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal

Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	0.000	0.000
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	107.407	35.000
External Outflow	107.407	35.000
Internal Outflow	0.000	0.000
Evaporation Loss	0.000	0.000
Initial Stored Volume	0.159	0.052
Final Stored Volume	0.159	0.052
Continuity Error (%)	0.000	

All links are stable.

Minimum Time Step : 0.50 sec
Average Time Step : 0.50 sec
Maximum Time Step : 0.50 sec
Percent in Steady State : 0.00
Average Iterations per Step : 2.00

Average Maximum Maximum Time of Max Depth Depth HGL Occurrence Node Type Feet Feet Feet days hr:min 5.93 6.23 0 00:00 JUNCTION 6.31 2 5.85 6.20 6.35 0 00:00 JUNCTION 3 6.11 0 00:00 5.78 6.34 JUNCTION 4 JUNCTION 5.70 6.04 6.34 0 00:00 5 JUNCTION 5.63 5.95 6.33 0 00:00 6 0 00:00 JUNCTION 5.55 5.91 6.36 7 OUTFALL 6.00 6.00 6.00 0 00:00

Node	Туре	Maximum Lateral Inflow MGD	Maximum Total Inflow MGD	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal
1	JUNCTION JUNCTION JUNCTION	0.000	76.598	0 00:00	0.000	34.997
2		0.000	73.277	0 00:00	0.000	34.998
3		0.000	72.687	0 00:00	0.000	34.998

4	JUNCTION	0.000	70.795	0	00:00	0.000	34.997
5	JUNCTION	0.000	49.643	0	00:00	0.000	34.997
6	JUNCTION	35.000	35.000	0	00:00	34.998	34.998
7	OUTFALL	0.000	72.431	0	00:00	0.000	34.997

No nodes were surcharged.

No nodes were flooded.

Outfall Node	Flow Freq. Pcnt.	Avg. Flow MGD	Max. Flow MGD	Total Volume 10^6 gal
7	99.99	35.002	72.431	34.997
System	99 . 99	35.002	72.431	34.997

		Maximum	Time of Max	Maximum	Max/	Max/
		Flow	Occurrence	Velocity	Full	Full
Link	Туре	MGD	days hr:min	ft/sec	Flow	Depth

1	CONDUIT	49.643	0	00:00	1.00	0.06	0.59
2	CONDUIT	70.795	0	00:00	1.39	0.09	0.60
3	CONDUIT	72.687	0	00:00	1.41	0.09	0.60
4	CONDUIT	73.277	0	00:00	1.40	0.09	0.61
5	CONDUIT	76.598	0	00:00	1.44	0.10	0.62
6	CONDUIT	72.431	0	00:00	1.88	0.09	0.44

	Adjusted		Fracti	on of	Time i	n Flow	Class		Avg.	Avg.
Conduit	/Actual Length	Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Froude Number	Flow Change
1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.05	0.0000
2	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.05	0.0000
3	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.05	0.0000
4	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.05	0.0000
5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.05	0.0000
6	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.07	0.0000

No conduits were surcharged.

Analysis begun on: Thu Apr 08 03:09:24 2010 Analysis ended on: Thu Apr 08 03:09:26 2010