

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.009)

 WARNING 02: maximum depth increased for Node Jun-15
 WARNING 02: maximum depth increased for Node RWS-04
 WARNING 02: maximum depth increased for Node RWS-06
 WARNING 02: maximum depth increased for Node RWS-07
 WARNING 02: maximum depth increased for Node RWS-09
 WARNING 02: maximum depth increased for Node RWS-10
 WARNING 02: maximum depth increased for Node RWS-12
 WARNING 02: maximum depth increased for Node RWS-13

 Element Count

Number of rain gages 1
 Number of subcatchments ... 12
 Number of nodes 17
 Number of links 16
 Number of pollutants 0
 Number of land uses 0

 Raingage Summary

Name	Data Source	Data Type	Recording Interval
Rain Gage-01	H: \304000087_Stuttgart_Starkregen DB\08_PHASES\1_GRUNDL\DATA\KLIMA\N0742BGWO.dat		

 Subcatchment Summary

Name Outlet	Area	Width	%Imperv	%Slope	Rain Gage
EZG-01 Jun-15	17.67	627.79	55.00	3.3300	Rain Gage-01
EZG-02 Jun-15	12.93	210.99	87.00	5.1300	Rain Gage-01
EZG-03 RWS-04	2.92	309.21	92.00	2.9200	Rain Gage-01
EZG-04 RWS-05	8.77	290.46	33.00	16.7900	Rain Gage-01
EZG-05 RWS-06	11.24	261.17	52.00	15.9100	Rain Gage-01
EZG-06 RWS-07	9.13	344.85	58.00	17.3600	Rain Gage-01
EZG-07 Jun-16	4.15	152.53	26.00	1.7400	Rain Gage-01
EZG-08 RWS-09	11.30	242.34	68.00	7.1700	Rain Gage-01
EZG-09 RWS-10	6.16	156.94	73.00	14.7700	Rain Gage-01
EZG-10 RWS-13	22.39	244.33	86.00	8.3800	Rain Gage-01
EZG-11 RWS-13	8.51	323.58	89.00	3.0800	Rain Gage-01
EZG-12 RWS-13	20.76	511.93	73.00	10.6000	Rain Gage-01

 Node Summary

Name	Type	Invert El ev.	Max. Depth	Ponded Area	External Inflow
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Gebietsauslaß Schlößgarten	JUNCTION	239.50	3.00	100.0
Jun-15	JUNCTION	263.15	3.60	100.0
Jun-16	JUNCTION	315.50	6.00	100.0
Jun-17	JUNCTION	289.70	6.00	100.0
Out-04	JUNCTION	238.00	3.20	100.0
RWS-04	JUNCTION	279.87	3.60	100.0
RWS-05	JUNCTION	286.46	1.54	100.0
RWS-06	JUNCTION	263.74	5.60	100.0
RWS-07	JUNCTION	341.89	5.60	100.0
RWS-08	JUNCTION	383.73	1.27	100.0
RWS-09	JUNCTION	346.46	3.60	100.0
RWS-10	JUNCTION	286.93	5.60	100.0
RWS-12	JUNCTION	247.66	3.20	100.0
RWS-13	JUNCTION	248.04	3.70	100.0
Gebietsauslaß	OUTFALL	239.00	1.50	0.0
Kanal BE	OUTFALL	237.00	3.20	0.0
Vollweinstau	STORAGE	240.00	4.00	0.0

 Link Summary

Name Roughness	From Node	To Node	Type	Length	%SI ope
BE 01 0.0150	RWS-13	Out-04	CONDUIT	218.6	4.5977
BE 2 0.0150	Jun-15	Out-04	CONDUIT	745.2	3.4842
Link-01 0.0150	RWS-10	RWS-06	CONDUIT	420.3	5.5258
Link-02 0.0150	RWS-05	RWS-06	CONDUIT	242.8	9.3968
Link-03 0.0150	RWS-06	Jun-15	CONDUIT	31.3	1.8871
Link-06 0.0150	RWS-04	Jun-15	CONDUIT	404.1	4.1407
Link-07 0.0150	RWS-07	Jun-16	CONDUIT	580.7	4.5491
Link-08 0.0150	RWS-13	RWS-12	CONDUIT	314.6	0.2797
Link-09 0.0150	Jun-16	RWS-13	CONDUIT	848.9	7.9723
Link-10 0.0150	RWS-09	Jun-16	CONDUIT	135.3	23.4970
Link-17 0.0150	Jun-15	Vollweinstau	CONDUIT	420.4	5.7533
Link-20 0.0150	RWS-12	Vollweinstau	CONDUIT	63.2	12.2024
Link-39 2.8228	Gebietsauslaß Schlößgarten	Gebietsauslaß	CONDUIT		17.7
Link-42 0.0150	Out-04	Kanal BE	CONDUIT	60.5	1.6531
Weir-01	Vollweinstau	Gebietsauslaß Schlößgarten	WEIR		
Outlet-01	Vollweinstau	Gebietsauslaß Schlößgarten	OUTLET		

 Cross Section Summary

Full Conduit Flow	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels
BE 01 21.36	CIRCULAR	1.80	2.54	0.45	1.80	1
BE 2 6.26	EGG	1.50	1.15	0.29	1.00	1
Link-01	CIRCULAR	5.60	24.63	1.40	5.60	1

Runoff Quantity Continuity	hectare-m	mm
Total Precipitation	3094.142	22762.760
Evaporation Loss	0.000	0.000
Infiltration Loss	5.711	42.017
Surface Runoff	3102.345	22823.104
Final Storage	0.401	2.949
Continuity Error (%)	-0.463	

Flow Routing Continuity	Volume hectare-m	Volume 10 ⁶ ltr
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	3101.475	31015.078
Groundwater Inflow	0.000	0.000
RDI Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	3101.493	31015.251
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	0.045	0.451
Continuity Error (%)	-0.002	

Highest Continuity Errors
Node RWS-12 (1.64%)

Time-Step Critical Elements
None

Highest Flow Instability Indexes
Link Link-10 (6)
Link Link-03 (1)

Routing Time Step Summary
Minimum Time Step : 1.35 sec
Average Time Step : 9.99 sec
Maximum Time Step : 10.00 sec
Percent in Steady State : 0.00
Average Iterations per Step : 2.00
Percent Not Converging : 0.00

Analysis begun on: Tue Aug 16 20:07:11 2016
Analysis ended on: Tue Aug 16 20:34:17 2016
Total elapsed time: 00:27:06