

APPENDIX 1.2

OPTION 17 – SWMM MODEL OUTPUT

Option Description

Modeling Approach

The Broadway-Lomas detention pond was deleted from the model. The existing manhole number COA 32878 was connected directly to an existing manhole COA32865 with a 4.5 ft diameter RCP pipe in Broadway. The BR21 pond was simulated to drain into the Odelia Pond. A smaller detention pond (compared to the Broadway-Lomas Pond) was added near the Broadway-Marble intersection at the east side of Broadway. Runoff was diverted to this pond through a 54inch pipe connecting from an existing manhole, COA32878.B. The pond drained back into the Broadway storm drain system through a 30 inch pipe. The storm drains from north of Mountain to Odelia were upsized from 48-in. to 60-in. The Santa Barbara Park Pond was included to collect runoff from only Sub-catchments BR12 and BR16. The topography indicates that the runoff from basin BR16 will follow the natural street slopes along Edith to Mcknight. The existing 21-in. storm drain that increases to a 36-in. storm drain west along Mcknight between Edith and Broadway should convey the runoff to the intersection of Broadway and Mcknight to drain into the Santa Barbara Pond. Therefore no new storm drains will be required. Additional inlets west along Hannet may enhance the amount of runoff entering the storm drain system. However, a new storm drain system will have to be installed from the intersection of Edith and Odelia north along Edith to the intersection of Edith and Hannett and west from the intersection of Edith and Hannett along Hannett to drain into the Santa Barbara Pond. The storm drain will have to be sloped against the existing ground so that the storm drain conveys runoff to the Santa Barbara Pond.

The storm drain on Commercial to Baca was re-routed with a 54-in. pipe, all 36-inch storm drains were upsized to 48" from the Broadway-Odelia intersection north (Broadway, Baca, McKnight and Commercial). A new 11 feet deep detention pond called Coronado Park Pond was added to collect runoff from Sub-catchments B35 and B40. Storm drains from Cutler to Mcknight were upsized from 36-in. to 54-in. that connected to Coronado Pond. A 24-in. outlet pipe drained this pond back into the system. The storm drain from 3rd and Mcknight to 3rd and Constitution was upsized from 48-in. to 54-in.

Added storm drains west on Constitution from 3rd St. to 5th St. and south on 5th St. to Mountain the south to drain into the North Wells Park Pond located at Summer and 5th St., the pond outfall pipe is a 36-in. RCP storm drain south on 5th St. to Mountain, then east to 3rd St. where it joins the existing storm drain. The storm drain between Constitution and Mountain along 3rd St was deleted to direct flows to the North Wells Park Pond.

Upsized storm drains from 24 to 54 inches on Rio Grande from Carson to Chacoma, then to San Pasquale then to Laguna ending at Kit Carson, and upsized storm drain from 27- and 30-in. to 48-in. storm drain on Barelás from Pacific Ave. to Lewis, west on Lewis to the west Riverside storm drain. The significant option components are summarized in **Table 6-1** (Summary of Model Filenames and Components – in map pocket).

TABLE 6-27

SUMMARY OF OPTION 17 STREET PONDING AND MAN-HOLE FLOODING

Note- negative numbers imply that the HGL did not reach the manhole rim

Represents flooding depth over 1 ft

Represents flooding between 0.5ft - 0.99 ft

Represents flooding depth between 0 - 0.5 ft

MH Name	Manhole Invert Elev.	Max. Depth of Manhole	Manhole Rim Elev.	Maximum HGL	Node Flood Depth Above Manhole Rim	Flood Volume	Flood Volume	Hours Flooded
	(ft)	(ft)	(ft)	(ft)	(ft)	(10 ⁶ gal)	(acre-ft)	
	(a)	(a)	(b)	(c)	(d)	(e)	(f)	
COA25656	4948.86	10.32	4959.18	4959.33	0.15	0.228	0.699706	1.73
COA25622	4948.24	9.58	4957.82	4957.85	0.03	0.058	0.177996	0.81
COA7476	4950.32	7.85	4958.17	4958.18	0.01	0.231	0.708913	1.49
COA7518	4947.94	8.89	4956.83	4956.89	0.06	0.228	0.699706	1.65
COA24834	4944.52	7.06	4951.58	4951.78	0.2	1.443	4.428405	3.89
COA25105	4946.31	10.2	4956.51	4956.52	0.01	0.035	0.107411	0.35
COA25109	4945.87	10.67	4956.54	4956.55	0.01	0.018	0.05524	0.2
COA9229	4913.15	27	4940.15	4940.44	0.29	0.028	0.085929	0.58

(a) Manhole Invert elevation from SWMM input under Node Summary Table

(b) Rim elevation = MH invert elevation + Max depth of manhole

(c) Max HGL from SWMM output table under Node Depth Summary

(d) Node Flood Depth above Manhole Rim = HGL Elev-Rim Elev

(e) Flood volume from SWMM output table under Node Flooding Summary

(f) 1 gallon = 3.06888 E-6 acre-ft

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.022)

COA Mid Valley Existing Conditions SWMM 5.0.022 Model
Results Printed on August 4th, 2011

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 CFS

Process Models:

Rainfall/Runoff YES

Snowmelt NO

Groundwater NO

Flow Routing YES

Ponding Allowed YES

Water Quality NO

Infiltration Method CURVE_NUMBER

Flow Routing Method DYNWAVE

Starting Date JUL-01-2011 00:00:00

Ending Date JUL-06-2011 23:00:00

Antecedent Dry Days 0.0

Report Time Step 00:00:15

Wet Time Step 00:00:15

Dry Time Step 00:00:15

Routing Time Step 1.00 sec

WARNING 04: minimum elevation drop used for Conduit ESWMM126

Element Count

Number of rain gages 1

Number of subcatchments ... 70

Number of nodes 133

Number of links 136

Number of pollutants 0

Number of land uses 0

Raingage Summary

Name	Data Source	Data Type	Recording Interval
Gage1	Rain100hr24hr	CUMULATIVE	3 min.

Subcatchment Summary

Name	Area	Width	%Imperv	%Slope	Rain Gage	Outlet
A1	32.38	400.00	60.00	0.0800	Gage1	COA24916
A10	50.08	400.00	56.00	0.1351	Gage1	COA25048
A11	36.32	400.00	67.00	0.2105	Gage1	COA7518
A12	107.39	400.00	53.00	0.0702	Gage1	COA25656
A13	123.40	400.00	70.00	0.1177	Gage1	COA24834
A15	46.43	400.00	70.00	0.1835	Gage1	COA7444
A18	42.12	400.00	54.00	0.1802	Gage1	COA7476
A2	11.08	400.00	55.00	0.0000	Gage1	COA9083
A3	88.49	400.00	40.00	0.2000	Gage1	COA9069
A4	12.42	400.00	50.00	0.1071	Gage1	COA24859

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A5	78.59	400.00	55.00	0.1563	Gage1	COA9045
A6	47.22	400.00	42.00	0.1277	Gage1	COA8985
A7	38.26	400.00	52.00	0.1667	Gage1	COA25034
A8	22.07	400.00	57.00	0.2778	Gage1	COA25105
A9	29.10	400.00	58.00	0.2128	Gage1	COA25622
B1	40.10	400.00	67.00	0.2778	Gage1	COA22127
B10	13.89	400.00	64.00	0.1905	Gage1	COA22155
B11	12.41	400.00	19.00	0.9091	Gage1	TINGLEYPARKSURGEPOND
B12	9.50	400.00	70.00	0.1852	Gage1	COA9407
B13	20.03	400.00	61.00	0.1942	Gage1	COA13866
B14	28.24	400.00	85.00	0.3889	Gage1	COA22429
B15	41.75	400.00	90.00	0.1523	Gage1	COA9344
B16	29.92	400.00	86.00	0.2308	Gage1	COA9348
B17	17.56	400.00	90.00	0.0000	Gage1	COA9310
B18	13.98	400.00	98.00	0.0000	Gage1	COA9310
B20	16.96	400.00	85.00	0.2500	Gage1	COA22517
B21	30.91	400.00	70.00	0.3571	Gage1	COA24930
B22	33.42	400.00	70.00	0.1482	Gage1	COA9260
B23	9.35	400.00	99.00	0.1111	Gage1	COA9260
B24	18.44	400.00	90.00	0.0000	Gage1	COA22584
B25	39.65	400.00	96.00	0.1290	Gage1	COA7865
B26	59.34	400.00	75.00	0.0000	Gage1	COA25253
B27	51.52	400.00	88.00	0.1299	Gage1	COA7740
B28	64.91	400.00	70.00	0.1072	Gage1	COA7816
B29	105.31	400.00	65.00	0.1127	Gage1	COA25349
B3	5.08	400.00	64.00	0.1754	Gage1	COA9141
B30	51.79	400.00	82.00	0.1379	Gage1	NORTHWELLSPOND
B31	43.60	400.00	85.00	0.1149	Gage1	COA7654
B32	39.96	400.00	72.00	0.1709	Gage1	COA7638
B33	51.09	400.00	68.00	0.1010	Gage1	COA6231
B34	53.33	400.00	76.00	0.2010	Gage1	COA15184
B35	32.09	400.00	82.00	0.4008	Gage1	CORONADOPOND
B36	25.33	400.00	77.00	0.3150	Gage1	COA6045
B4	5.98	400.00	47.00	0.1205	Gage1	COA22174
B40	36.44	400.00	84.00	0.8037	Gage1	CORONADOPOND
B41	24.82	400.00	94.00	0.5333	Gage1	COA6149
B5	65.56	400.00	68.00	0.1553	Gage1	COA22169
B6	7.04	400.00	65.00	0.0917	Gage1	COA9431
B7	11.54	400.00	56.00	0.3529	Gage1	COA9426
B8	23.57	400.00	64.00	0.1478	Gage1	MHB22410
BR1	28.93	400.00	75.00	3.8667	Gage1	COA29178
BR10	36.43	400.00	31.00	5.1034	Gage1	COA7963.05M
BR11	9.74	400.00	65.00	4.5106	Gage1	COA33027
BR12	22.29	400.00	10.00	4.7826	Gage1	MH1
BR13	29.14	400.00	70.00	1.6667	Gage1	COA7656
BR14	19.80	400.00	89.00	0.4000	Gage1	COA7635
BR16	25.89	400.00	13.00	3.1858	Gage1	COA29132
BR17	49.17	400.00	59.00	1.4286	Gage1	COA29132
BR18	33.13	400.00	75.00	1.4000	Gage1	COA6195
BR19	26.21	400.00	75.00	1.0370	Gage1	COA32878
BR2	5.67	400.00	50.00	0.5405	Gage1	COA32878.A
BR20	24.15	400.00	90.00	0.2222	Gage1	COA7848
BR21	23.81	400.00	80.00	3.2594	Gage1	BR21POND
BR3	37.23	400.00	66.00	2.3529	Gage1	BROADWAYMARBLEPOND
BR4	39.56	400.00	75.00	3.0586	Gage1	COA7870
BR5	10.73	400.00	59.00	4.1071	Gage1	COA7963.05A
BR6	28.63	400.00	82.00	0.6154	Gage1	COA7766JB
BR9	55.23	400.00	86.00	0.2353	Gage1	COA7717
B19.1	15.30	400.00	85.00	2.6286	Gage1	COA9152
B19.2	12.03	400.00	85.00	2.7942	Gage1	COA9248

Node Summary

Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
COA6149	JUNCTION	4956.51	6.87	130067.0	
COA6231	JUNCTION	4955.06	7.35	130067.0	
COA6045	JUNCTION	4957.51	7.82	309545.0	
COA15184	JUNCTION	4954.19	10.04	224607.0	

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COA6218	JUNCTION	4953.66	9.34	224607.0	
COA6195	JUNCTION	4962.97	6.74	79450.0	
COA6246	JUNCTION	4962.06	7.85	79450.0	
COA29163	JUNCTION	4962.01	8.38	79450.0	
COA7635	JUNCTION	4957.34	7.29	27461.0	
COA7650	JUNCTION	4954.93	8.35	27461.0	
COA7656	JUNCTION	4953.17	9.45	27118.0	
COA7628	JUNCTION	4960.44	11.03	27118.0	
COA29132	JUNCTION	4961.85	12.41	18581.0	
COA33027	JUNCTION	4957.15	8.20	0.0	
COA33007	JUNCTION	4994.87	10.60	0.0	Yes
COA7717	JUNCTION	4949.54	9.19	36488.0	
COA19719	JUNCTION	4952.30	9.98	188061.0	
COA7654	JUNCTION	4951.67	8.59	228852.0	
COA7714	JUNCTION	4950.14	7.86	296083.3	
COA6259	JUNCTION	4953.72	10.36	64850.0	
COA7638	JUNCTION	4952.62	8.10	64850.0	
COA25807	JUNCTION	4953.18	7.28	64850.0	
COA25349	JUNCTION	4945.26	11.07	166821.0	
COA25656	JUNCTION	4948.86	10.32	197750.0	
COA25677	JUNCTION	4948.59	10.97	197750.0	
COA25622	JUNCTION	4948.24	9.58	159436.0	
COA7444	JUNCTION	4952.87	7.72	292160.0	Yes
COA7476	JUNCTION	4950.32	7.85	181489.0	
COA7518	JUNCTION	4947.94	8.89	167547.7	
COA24834	JUNCTION	4944.52	7.06	612333.2	
COA8985	JUNCTION	4940.76	11.38	241168.0	
COA24859	JUNCTION	4938.64	12.00	25798.0	
COA9015	JUNCTION	4942.91	8.45	25798.0	
COA25105	JUNCTION	4946.31	10.20	50544.0	
COA25117	JUNCTION	4945.26	11.29	50544.0	
COA25048	JUNCTION	4944.92	11.36	401053.0	
COA25034	JUNCTION	4943.82	10.70	171143.0	
COA9045	JUNCTION	4941.61	8.65	171143.0	
COA25352	JUNCTION	4945.06	11.31	166821.0	
COA7815	JUNCTION	4943.48	13.40	166821.0	
COA25253	JUNCTION	4941.66	12.95	84189.0	
COA7977	JUNCTION	4941.94	13.08	84189.0	
COA25238	JUNCTION	4941.20	13.47	84189.0	
COA25240	JUNCTION	4941.15	13.87	84189.0	
COA22584	JUNCTION	4940.18	14.49	117610.0	
COA9260	JUNCTION	4938.02	14.78	208149.0	
COA7740	JUNCTION	4949.69	8.25	166203.0	
COA7830	JUNCTION	4944.87	12.00	166203.0	
COA7865	JUNCTION	4946.34	10.46	45527.0	
COA7908	JUNCTION	4946.15	10.00	45527.0	
COA7912	JUNCTION	4945.61	10.68	45527.0	
COA7955	JUNCTION	4943.49	12.00	45527.0	
COA22517	JUNCTION	4943.59	11.00	97896.0	
COA7716	JUNCTION	4948.88	9.23	36488.0	
COA7766JB	JUNCTION	4943.95	12.33	40457.3	
COA7769JB	JUNCTION	4944.52	11.81	0.0	
COA32865	JUNCTION	4945.49	11.62	21867.0	
COA32878	JUNCTION	4946.60	9.16	26441.0	
COA7848	JUNCTION	4947.67	8.71	75622.0	
COA7861	JUNCTION	4947.76	10.18	0.0	
COA7870	JUNCTION	4957.75	12.84	0.0	Yes
COA29178	JUNCTION	4956.78	9.45	0.0	
COA7816	JUNCTION	4944.19	13.17	362909.0	
COA25109	JUNCTION	4945.87	10.67	50544.0	
BPSINLET	JUNCTION	4938.89	21.00	0.0	
COA9310	JUNCTION	4942.40	11.55	187810.0	
COA9348	JUNCTION	4939.63	11.79	195274.4	
COA9344	JUNCTION	4935.83	15.71	94192.0	
COA9340	JUNCTION	4935.64	16.65	94192.0	
COA22250	JUNCTION	4937.56	13.58	94192.0	
COA22429	JUNCTION	4937.26	13.07	183374.0	
COA13866	JUNCTION	4935.36	12.08	73420.0	
COA24930	JUNCTION	4937.17	11.05	174484.0	
COA24916	JUNCTION	4938.25	10.36	85713.0	
COA9248	JUNCTION	4947.65	10.07	11689.0	
COA32981	JUNCTION	4931.39	17.86	18760.0	

COA9121	JUNCTION	4931.16	17.50	33447.0
COA24902	JUNCTION	4939.07	10.00	85713.0
COA24902A	JUNCTION	4939.73	8.82	140992.0
COA9069	JUNCTION	4940.85	8.80	140992.0
COA24997	JUNCTION	4936.14	13.35	140992.0
COA9083	JUNCTION	4935.33	12.62	0.0
UPSINLET	JUNCTION	4930.49	28.66	0.0
COA9407	JUNCTION	4944.40	6.42	79526.0
COA9426	JUNCTION	4943.03	6.39	22812.0
COA22194	JUNCTION	4942.00	7.04	22812.0
COA22191	JUNCTION	4940.79	8.13	22812.0
COA9431	JUNCTION	4939.27	9.59	22229.0
COA22176	JUNCTION	4938.45	10.72	22229.0
COA22168	JUNCTION	4936.56	9.92	117391.0
COA22174	JUNCTION	4928.49	16.58	35030.0
COA22155	JUNCTION	4928.35	16.89	33447.0
COA9141	JUNCTION	4928.21	17.88	20203.1
COA22410	JUNCTION	4928.36	18.75	45178.0
COA9129	JUNCTION	4930.24	16.01	45178.0
COA9143	JUNCTION	4927.28	20.70	0.0
COA22144	JUNCTION	4924.79	22.45	0.0
COA22145	JUNCTION	4925.85	24.38	0.0
COA22143	JUNCTION	4923.99	22.50	0.0
COA10456	JUNCTION	4922.76	20.45	0.0
BaPSINLET	JUNCTION	4922.01	26.60	0.0
COA7963.05A	JUNCTION	4971.98	7.11	0.0
COA7963.05M	JUNCTION	4952.69	10.31	0.0
COA7963.11A	JUNCTION	4951.67	9.48	36488.0
COA7963.T	JUNCTION	4932.21	9.25	0.0
COA32878.A	JUNCTION	4947.19	8.39	21867.0
COA32878.B	JUNCTION	4946.27	9.58	21867.0
APSINLET	JUNCTION	4929.66	14.10	0.0
IRON14TH	JUNCTION	4939.07	10.00	0.0
BLDWEIR	JUNCTION	4946.60	9.16	0.0
BLUWEIR	JUNCTION	4946.60	9.16	0.0
COA22169	JUNCTION	4939.35	6.75	117391.0
COA22127	JUNCTION	4937.86	7.66	226362.0
COA32823	JUNCTION	4933.09	27.00	0.0
COA9453	JUNCTION	4939.07	7.51	117391.0
MHB22410	JUNCTION	4928.42	18.75	90355.0
COA9152	JUNCTION	4929.67	27.00	0.0
COA9229	JUNCTION	4913.15	27.00	8870.0
MHB19A	JUNCTION	4933.00	27.00	0.0
MH3	JUNCTION	4964.00	10.00	0.0
MH2	JUNCTION	4970.50	19.50	0.0
MH1	JUNCTION	4974.00	6.00	0.0
APSOUTLET	OUTFALL	4960.84	0.00	0.0
BPSOUTLET	OUTFALL	5106.00	0.00	0.0
BaPSOUTLET	OUTFALL	4941.69	0.00	0.0
OUT1	OUTFALL	5061.00	0.00	0.0
AIRQUALITYPOND	STORAGE	4952.26	12.40	0.0
TINGLEYPARKSURGEPOND	STORAGE	4932.21	16.45	0.0
BROADWAYMARBLEPOND	STORAGE	4946.00	10.00	0.0
NORTHWELLSPOND	STORAGE	4951.00	9.00	0.0
SANTABARBOND	STORAGE	4961.00	11.00	0.0
CORONADOPOND	STORAGE	4953.00	11.00	0.0
BR21POND	STORAGE	5062.00	14.00	0.0

Yes

Link Summary

Name	From Node	To Node	Type	Length	%Slope	Roughness
ESWMM57	COA6149	COA6231	CONDUIT	733.0	0.1378	0.0140
1FQSWMM6	COA6045	COA15184	CONDUIT	802.0	0.3915	0.0140
1FQSWMM7	COA15184	COA6218	CONDUIT	622.0	0.0096	0.0140
1FQSWMM17	COA6195	COA6246	CONDUIT	636.0	0.1431	0.0140
1FQSWMM18	COA6246	COA29163	CONDUIT	120.0	0.2917	0.0140
1FQSWMM19	COA7635	COA7650	CONDUIT	613.0	0.3932	0.0140
1FQSWMM20	COA7650	COA7656	CONDUIT	386.0	0.4041	0.0140
ESWMM41	COA33027	COA7656	CONDUIT	416.0	0.7428	0.0140

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1FOSWMM22	COA7628	COA7656	CONDUIT	831.0	0.7618	0.0140
ESWMM42	COA33007	COA33027	CONDUIT	1096.0	3.4235	0.0140
1FQSWMM4	COA7656	COA7963.11A	CONDUIT	319.0	0.4702	0.0140
1FQSWMM9	COA19719	COA7654	CONDUIT	1795.0	0.0351	0.0140
ESWMM58	COA6231	COA6259	CONDUIT	298.0	0.2349	0.0140
ESWMM59	COA6259	COA7638	CONDUIT	930.0	0.1183	0.0140
ESWMM60	COA25807	COA7638	CONDUIT	310.0	0.1806	0.0140
ESWMM91	COA25656	COA25677	CONDUIT	670.0	0.0403	0.0140
ESWMM92	COA25677	COA25622	CONDUIT	914.0	0.0306	0.0140
1FQSWMM10	COA7444	COA7476	CONDUIT	1361.0	0.1925	0.0140
1FQSWMM11	COA7476	COA7518	CONDUIT	895.0	0.2547	0.0140
1FQSWMM12	COA7518	COA24834	CONDUIT	1804.0	0.0815	0.0140
1FQSWMM13	COA24834	COA8985	CONDUIT	1437.0	0.1621	0.0140
1FQSWMM14	COA8985	COA24859	CONDUIT	442.0	0.4344	0.0140
ESWMM6	COA24859	COA9015	CONDUIT	670.0	0.0343	0.0140
ESWMM93	COA25622	COA25105	CONDUIT	752.0	0.2354	0.0140
ESWMM94	COA25105	COA25109	CONDUIT	280.0	0.1571	0.0140
ESWMM96	COA25117	COA25048	CONDUIT	342.0	0.0848	0.0140
ESWMM97	COA25048	COA25034	CONDUIT	747.0	0.1473	0.0140
ESWMM98	COA25034	COA9045	CONDUIT	1976.0	0.1088	0.0140
ESWMM61	COA25807	COA25349	CONDUIT	2789.0	0.2840	0.0140
ESWMM62	COA25349	COA25352	CONDUIT	60.0	0.3333	0.0140
ESWMM63	COA25352	COA7815	CONDUIT	305.0	0.3639	0.0140
ESWMM64	COA7815	COA25253	CONDUIT	1481.0	0.1229	0.0140
ESWMM65	COA7977	COA25253	CONDUIT	20.0	1.4001	0.0140
ESWMM66	COA7977	COA25238	CONDUIT	137.0	0.3723	0.0140
ESWMM67	COA25238	COA25240	CONDUIT	23.0	0.2174	0.0140
ESWMM68	COA25240	COA22584	CONDUIT	490.0	0.2612	0.0140
ESWMM69	COA22584	COA9260	CONDUIT	560.0	0.2268	0.0140
ESWMM30	COA7714	COA7740	CONDUIT	405.0	0.1111	0.0140
ESWMM29	COA7740	COA7830	CONDUIT	1028.0	0.1566	0.0140
ESWMM28	COA7830	COA7865	CONDUIT	391.0	0.1611	0.0140
ESWMM27	COA7865	COA7908	CONDUIT	355.0	0.0535	0.0140
ESWMM26	COA7912	COA7908	CONDUIT	13.0	5.2379	0.0140
ESWMM25	COA7912	COA7955	CONDUIT	360.0	0.1083	0.0140
ESWMM24	COA7955	COA22517	CONDUIT	968.0	0.1333	0.0140
ESWMM50	COA7870	COA29178	CONDUIT	441.0	0.1020	0.0140
ESWMM51	COA7870	COA7861	CONDUIT	517.0	1.8901	0.0140
ESWMM52	COA7861	COA32878	CONDUIT	350.0	0.2743	0.0140
BLUPIPE	COA32878	BLUWEIR	CONDUIT	300.0	0.0067	0.0140
1FQSWMM6	COA7717	COA7716	CONDUIT	11.0	4.3678	0.0140
ESWMM47	COA7716	COA7766JB	CONDUIT	725.0	0.5821	0.0140
ESWMM48	COA7769JB	COA7766JB	CONDUIT	78.0	0.6026	0.0140
ESWMM49	COA32865	COA7769JB	CONDUIT	307.0	0.3225	0.0140
ESWMM54	COA7848	COA7830	CONDUIT	1435.0	0.1951	0.0140
ESWMM55	COA7830	COA7816	CONDUIT	1092.0	0.0778	0.0140
ESWMM56	COA7816	COA7815	CONDUIT	739.0	0.0825	0.0140
ESWMM95	COA25109	COA25117	CONDUIT	389.0	0.1517	0.0140
48SDTOBPS	COA7766JB	BPSINLET	CONDUIT	60.0	0.1000	0.0140
ESWMM23	COA9248	COA22517	CONDUIT	821.0	0.4592	0.0140
ESWMM22	COA22517	COA9310	CONDUIT	1089.0	0.1093	0.0140
ESWMM21	COA9310	COA9348	CONDUIT	1101.0	0.2516	0.0140
ESWMM20	COA9348	COA9344	CONDUIT	373.0	0.1287	0.0140
ESWMM19	COA9344	COA9340	CONDUIT	375.0	0.1493	0.0140
ESWMM18	COA9340	COA22250	CONDUIT	346.0	0.1532	0.0140
ESWMM17	COA22250	COA22429	CONDUIT	366.0	0.0820	0.0140
ESWMM16	COA22429	COA13866	CONDUIT	361.0	0.4017	0.0140
ESWMM70	COA9260	COA13866	CONDUIT	1622.0	0.1178	0.0140
ESWMM15	COA24930	COA13866	CONDUIT	713.0	0.0898	0.0140
ESWMM71	COA13866	COA7963.T	CONDUIT	1026.0	0.3068	0.0140
ESWMM72	COA32981	COA9121	CONDUIT	80.0	0.2875	0.0140
ESWMM7	COA9015	COA9069	CONDUIT	1428.0	0.1366	0.0140
ESWMM12	COA24902	COA24902A	CONDUIT	479.0	0.0271	0.0140
ESWMM9	COA9069	COA24902A	CONDUIT	514.0	0.2218	0.0140
ESWMM99	COA9045	COA24902	CONDUIT	740.0	0.1649	0.0140
ESWMM8	COA9069	COA24997	CONDUIT	19.0	4.5838	0.0140
ESWMM10	COA24997	COA9083	CONDUIT	384.0	0.2109	0.0140
ESWMM11	COA24902A	COA9083	CONDUIT	376.0	1.2474	0.0140
ESWMM90	COA9407	COA9426	CONDUIT	393.0	0.3384	0.0140
ESWMM89	COA9426	COA22194	CONDUIT	356.0	0.2865	0.0140
ESWMM88	COA22194	COA22191	CONDUIT	296.0	0.4088	0.0140
ESWMM87	COA22191	COA9431	CONDUIT	328.0	0.4634	0.0140

ESWMM86	COA9431	COA22176	CONDUIT	172.0	0.5523	0.0140	
ESWMM85	COA22176	COA22168	CONDUIT	612.0	0.3088	0.0140	
ESWMM84	COA22168	COA22174	CONDUIT	337.0	2.3953	0.0140	
ESWMM83	COA22174	COA22155	CONDUIT	386.0	0.0363	0.0140	
ESWMM82	COA22155	COA9141	CONDUIT	510.0	0.0275	0.0240	
ESWMM73	COA9121	COA9129	CONDUIT	327.0	0.2813	0.0240	
ESWMM76	COA9141	COA9143	CONDUIT	210.0	0.4429	0.0240	
ESWMM77	COA9143	COA22145	CONDUIT	377.0	0.3793	0.0240	
ESWMM78	COA22145	COA22144	CONDUIT	370.0	0.2865	0.0240	
ESWMM79	COA22144	COA22143	CONDUIT	202.0	0.3960	0.0240	
ESWMM80	COA22143	COA10456	CONDUIT	301.0	0.4086	0.0240	
ESWMM81	COA10456	BaPSINLET	CONDUIT	243.0	0.3086	0.0240	
ESWMM14	COA24916	COA24930	CONDUIT	717.0	0.1325	0.0140	
ESWMM13	IRON14TH	COA24916	CONDUIT	659.0	0.1199	0.0140	
ESWMM125	COA7963.05A	COA7963.05M	CONDUIT	1793.0	1.0759	0.0140	
1FQSWMM5	COA7963.11A	COA7717	CONDUIT	1219.0	0.1829	0.0140	
ESWMM71A	COA7963.T	COA32981	CONDUIT	149.0	0.5517	0.0140	
ESWMM126	TINGLEYPARKSURGE	POND	COA7963.T	CONDUIT	50.0	0.0020	0.0140
ESWMM127	AIRQUALITYPOND	COA7963.11A	CONDUIT	240.0	0.2458	0.0140	
ESWMM128	COA33027	AIRQUALITYPOND	CONDUIT	149.0	3.2836	0.0140	
ESWMM129	COA7963.05M	AIRQUALITYPOND	CONDUIT	69.0	0.6232	0.0140	
ESWMM132	COA32878.A	COA32878	CONDUIT	60.0	0.9834	0.0140	
60SDTOBPS	COA7769JB	BPSINLET	CONDUIT	60.0	0.8834	0.0140	
ESWMM135	COA9083	APSINLET	CONDUIT	150.7	0.0730	0.0140	
ESWMM53	COA7848	BLDWEIR	CONDUIT	308.0	0.3474	0.0140	
ESWMM75	COA22410	COA9141	CONDUIT	196.0	0.0765	0.0240	
1FOSWMM13	COA22169	COA9453	CONDUIT	194.0	0.1443	0.0140	
1FOSWMM14	COA9453	COA22127	CONDUIT	870.0	0.1486	0.0140	
1FOSWMM15	COA22127	COA10456	CONDUIT	1157.0	0.5272	0.0140	
ESWMM201	COA9229	COA32823	CONDUIT	230.0	0.0261	0.0140	
ESWMM203	COA32823	UPSINLET	CONDUIT	103.0	2.5251	0.0140	
ESWMM200	COA9152	COA9229	CONDUIT	1665.0	0.0913	0.0140	
ESWMM202	COA32823	MHB19A	CONDUIT	426.0	0.0211	0.0140	
ESWMM500	COA24859	COA24997	CONDUIT	2116.0	0.1181	0.0140	
ESWMM74	COA9129	MHB22410	CONDUIT	501.0	0.3633	0.0240	
ESWMM74A	MHB22410	COA22410	CONDUIT	24.0	0.2500	0.0240	
1FOSWMM1	COA32878.A	COA32878.B	CONDUIT	100.0	0.9200	0.0140	
1FOSWMM2	COA32878.B	BROADWAYMARBLEPOND	CONDUIT	100.0	0.2700	0.0140	
1FOSWMM3	BROADWAYMARBLEPOND	COA32865	CONDUIT	150.0	0.3400	0.0140	
1FOSWMM4	COA7654	NORTHWELLSPOND	CONDUIT	1500.0	0.0447	0.0140	
1FOSWMM5	NORTHWELLSPOND	COA7714	CONDUIT	1080.0	0.0796	0.0140	
1FQSWMM1	COA29163	COA29132	CONDUIT	365.0	0.0438	0.0100	
1FQSWMM2	COA29132	SANTABARBPOND	CONDUIT	450.0	0.1889	0.0100	
1FQSWMM3	SANTABARBPOND	COA7628	CONDUIT	100.0	0.5600	0.0100	
1FQSWMM7	COA6218	CORONADOPOND	CONDUIT	400.0	0.1650	0.0100	
1FQSWMM8	CORONADOPOND	COA19719	CONDUIT	100.0	0.7000	0.0100	
O17SWMM200	MH1	MH2	CONDUIT	700.0	0.5000	0.0140	
O17SWMM201	MH2	MH3	CONDUIT	852.0	0.7629	0.0100	
O17SWMM202	MH3	SANTABARBPOND	CONDUIT	150.0	1.3335	0.0140	
BROADWAYPUMPSTATION		BPSINLET	BPSOUTLET	TYPE4 PUMP			
ALCALDEPUMPSTATION		APSINLET	APSOUTLET	TYPE4 PUMP			
URBANPUMPSTATION		UPSINLET	COA9248	TYPE4 PUMP			
BARELASPUMPSTATION		BaPSINLET	BaPSOUTLET	TYPE4 PUMP			
WEIRIRON14TH		IRON14TH	COA24902	WEIR			
WEIRBROADWAY		BLUWEIR	BLDWEIR	WEIR			
BR21OUTLET		BR21POND	OUT1	OUTLET			

Cross Section Summary

Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
ESWMM57	CIRCULAR	3.50	9.62	0.88	3.50	1	34.68
1FOSWMM6	CIRCULAR	4.50	15.90	1.13	4.50	1	114.26
1FOSWMM7	CIRCULAR	4.50	15.90	1.13	4.50	1	17.93
1FQSWMM17	CIRCULAR	4.50	15.90	1.13	4.50	1	69.07
1FQSWMM18	CIRCULAR	4.50	15.90	1.13	4.50	1	98.62
1FOSWMM19	CIRCULAR	4.00	12.57	1.00	4.00	1	83.63
1FOSWMM20	CIRCULAR	4.00	12.57	1.00	4.00	1	84.80
ESWMM41	CIRCULAR	2.00	3.14	0.50	2.00	1	18.10

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1FOSWMM22	CIRCULAR	4.00	12.57	1.00	4.00	1	116.41
ESWMM42	CIRCULAR	4.00	12.57	1.00	4.00	1	246.80
1FQSWMM4	CIRCULAR	5.00	19.63	1.25	5.00	1	165.84
1FQSWMM9	CIRCULAR	4.50	15.90	1.13	4.50	1	34.21
ESWMM58	CIRCULAR	4.00	12.57	1.00	4.00	1	64.65
ESWMM59	CIRCULAR	4.50	15.90	1.13	4.50	1	62.80
ESWMM60	CIRCULAR	4.50	15.90	1.13	4.50	1	77.61
ESWMM91	CIRCULAR	3.00	7.07	0.75	3.00	1	12.43
ESWMM92	CIRCULAR	3.00	7.07	0.75	3.00	1	10.84
1FQSWMM10	CIRCULAR	4.50	15.90	1.13	4.50	1	80.12
1FQSWMM11	CIRCULAR	4.50	15.90	1.13	4.50	1	92.16
1FQSWMM12	CIRCULAR	4.50	15.90	1.13	4.50	1	52.13
1FQSWMM13	CIRCULAR	4.50	15.90	1.13	4.50	1	73.53
1FQSWMM14	CIRCULAR	4.50	15.90	1.13	4.50	1	120.35
ESWMM6	CIRCULAR	3.00	7.07	0.75	3.00	1	11.48
ESWMM93	CIRCULAR	3.00	7.07	0.75	3.00	1	30.05
ESWMM94	CIRCULAR	4.00	12.57	1.00	4.00	1	52.87
ESWMM96	CIRCULAR	4.00	12.57	1.00	4.00	1	38.84
ESWMM97	CIRCULAR	5.00	19.63	1.25	5.00	1	92.80
ESWMM98	CIRCULAR	5.00	19.63	1.25	5.00	1	79.77
ESWMM61	CIRCULAR	5.50	23.76	1.38	5.50	1	166.17
ESWMM62	CIRCULAR	5.50	23.76	1.38	5.50	1	180.03
ESWMM63	CIRCULAR	5.50	23.76	1.38	5.50	1	188.11
ESWMM64	CIRCULAR	6.00	28.27	1.50	6.00	1	137.86
ESWMM65	CIRCULAR	6.00	28.27	1.50	6.00	1	465.33
ESWMM66	CIRCULAR	6.00	28.27	1.50	6.00	1	239.94
ESWMM67	CIRCULAR	6.00	28.27	1.50	6.00	1	183.36
ESWMM68	CIRCULAR	6.00	28.27	1.50	6.00	1	200.99
ESWMM69	CIRCULAR	6.00	28.27	1.50	6.00	1	187.28
ESWMM30	CIRCULAR	4.00	12.57	1.00	4.00	1	44.46
ESWMM29	CIRCULAR	4.50	15.90	1.13	4.50	1	72.26
ESWMM28	CIRCULAR	4.50	15.90	1.13	4.50	1	73.30
ESWMM27	CIRCULAR	5.00	19.63	1.25	5.00	1	55.95
ESWMM26	CIRCULAR	5.00	19.63	1.25	5.00	1	553.49
ESWMM25	CIRCULAR	5.00	19.63	1.25	5.00	1	79.60
ESWMM24	CIRCULAR	5.50	23.76	1.38	5.50	1	113.83
ESWMM50	CIRCULAR	3.00	7.07	0.75	3.00	1	19.78
ESWMM51	CIRCULAR	4.00	12.57	1.00	4.00	1	183.38
ESWMM52	CIRCULAR	4.50	15.90	1.13	4.50	1	95.63
BLUPIPE	CIRCULAR	6.00	28.27	1.50	6.00	1	32.11
1FQSWMM6	CIRCULAR	5.00	19.63	1.25	5.00	1	505.43
ESWMM47	CIRCULAR	4.00	12.57	1.00	4.00	2	101.76
ESWMM48	CIRCULAR	4.00	12.57	1.00	4.00	1	103.54
ESWMM49	CIRCULAR	3.50	9.62	0.88	3.50	1	53.05
ESWMM54	CIRCULAR	6.00	28.27	1.50	6.00	1	173.71
ESWMM55	CIRCULAR	6.00	28.27	1.50	6.00	1	109.72
ESWMM56	CIRCULAR	6.00	28.27	1.50	6.00	1	112.98
ESWMM95	CIRCULAR	4.00	12.57	1.00	4.00	1	51.95
48SDTOBPS	CIRCULAR	4.00	12.57	1.00	4.00	1	42.18
ESWMM23	CIRCULAR	4.00	12.57	1.00	4.00	1	90.39
ESWMM22	CIRCULAR	5.50	23.76	1.38	5.50	1	103.08
ESWMM21	CIRCULAR	5.50	23.76	1.38	5.50	1	156.41
ESWMM20	CIRCULAR	6.00	28.27	1.50	6.00	1	141.07
ESWMM19	CIRCULAR	6.00	28.27	1.50	6.00	1	151.97
ESWMM18	CIRCULAR	6.00	28.27	1.50	6.00	1	153.91
ESWMM17	CIRCULAR	6.00	28.27	1.50	6.00	1	112.59
ESWMM16	CIRCULAR	6.00	28.27	1.50	6.00	1	249.24
ESWMM70	CIRCULAR	7.00	38.48	1.75	7.00	1	203.56
ESWMM15	CIRCULAR	6.00	28.27	1.50	6.00	1	117.82
ESWMM71	CIRCULAR	8.00	50.27	2.00	8.00	1	469.13
ESWMM72	CIRCULAR	8.00	50.27	2.00	8.00	1	454.12
ESWMM7	CIRCULAR	3.00	7.07	0.75	3.00	1	22.89
ESWMM12	CIRCULAR	6.00	28.27	1.50	6.00	1	64.79
ESWMM9	CIRCULAR	3.00	7.07	0.75	3.00	1	29.17
ESWMM99	CIRCULAR	5.00	19.63	1.25	5.00	1	98.20
ESWMM8	CIRCULAR	3.00	7.07	0.75	3.00	1	132.60
ESWMM10	CIRCULAR	4.00	12.57	1.00	4.00	1	61.26
ESWMM11	CIRCULAR	5.00	19.63	1.25	5.00	1	270.11
ESWMM90	CIRCULAR	3.50	9.62	0.88	3.50	1	54.35
ESWMM89	CIRCULAR	4.00	12.57	1.00	4.00	1	71.40
ESWMM88	CIRCULAR	4.50	15.90	1.13	4.50	1	116.75
ESWMM87	CIRCULAR	4.50	15.90	1.13	4.50	1	124.31

ESWMM86	CIRCULAR	4.50	15.90	1.13	4.50	1	135.71
ESWMM85	CIRCULAR	4.50	15.90	1.13	4.50	1	101.48
ESWMM84	CIRCULAR	5.00	19.63	1.25	5.00	1	374.29
ESWMM83	CIRCULAR	5.00	19.63	1.25	5.00	1	46.06
ESWMM82	CIRCULAR	5.00	19.63	1.25	5.00	1	23.37
ESWMM73	CIRCULAR	8.00	50.27	2.00	8.00	1	262.05
ESWMM76	CIRCULAR	8.00	50.27	2.00	8.00	1	328.77
ESWMM77	CIRCULAR	8.00	50.27	2.00	8.00	1	304.27
ESWMM78	CIRCULAR	8.00	50.27	2.00	8.00	1	264.43
ESWMM79	CIRCULAR	8.00	50.27	2.00	8.00	1	310.91
ESWMM80	CIRCULAR	8.00	50.27	2.00	8.00	1	315.82
ESWMM81	CIRCULAR	8.00	50.27	2.00	8.00	1	274.47
ESWMM14	CIRCULAR	5.50	23.76	1.38	5.50	1	113.50
ESWMM13	CIRCULAR	5.50	23.76	1.38	5.50	1	107.96
ESWMM125	CIRCULAR	5.00	19.63	1.25	5.00	1	250.85
1FQSWMM5	CIRCULAR	5.00	19.63	1.25	5.00	1	103.44
ESWMM71A	CIRCULAR	8.00	50.27	2.00	8.00	1	629.06
ESWMM126	CIRCULAR	8.00	50.27	2.00	8.00	1	37.88
ESWMM127	CIRCULAR	4.00	12.57	1.00	4.00	1	66.13
ESWMM128	CIRCULAR	4.00	12.57	1.00	4.00	1	241.70
ESWMM129	CIRCULAR	5.00	19.63	1.25	5.00	1	190.92
ESWMM132	CIRCULAR	4.50	15.90	1.13	4.50	1	181.08
60SDTOBPS	CIRCULAR	5.00	19.63	1.25	5.00	1	227.30
ESWMM135	CIRCULAR	5.50	23.76	1.38	5.50	1	84.26
ESWMM53	CIRCULAR	6.00	28.27	1.50	6.00	1	231.79
ESWMM75	CIRCULAR	8.00	50.27	2.00	8.00	1	136.67
1FOSWMM13	CIRCULAR	4.00	12.57	1.00	4.00	1	50.67
1FOSWMM14	CIRCULAR	4.00	12.57	1.00	4.00	1	51.42
1FOSWMM15	CIRCULAR	4.00	12.57	1.00	4.00	1	96.85
ESWMM201	CIRCULAR	1.50	1.77	0.38	1.50	1	1.58
ESWMM203	CIRCULAR	3.50	9.62	0.88	3.50	1	148.45
ESWMM200	CIRCULAR	6.00	28.27	1.50	6.00	1	118.82
ESWMM202	CIRCULAR	6.50	33.18	1.63	6.50	1	70.76
ESWMM500	CIRCULAR	4.00	12.57	1.00	4.00	1	45.85
ESWMM74	CIRCULAR	8.00	50.27	2.00	8.00	1	297.77
ESWMM74A	RECT_CLOSED	8.00	54.96	1.85	6.87	1	256.23
1FOSWMM1	CIRCULAR	4.50	15.90	1.13	4.50	1	175.15
1FOSWMM2	CIRCULAR	4.50	15.90	1.13	4.50	1	94.88
1FOSWMM3	CIRCULAR	2.50	4.91	0.63	2.50	1	22.21
1FOSWMM4	CIRCULAR	4.50	15.90	1.13	4.50	1	38.59
1FOSWMM5	CIRCULAR	3.00	7.07	0.75	3.00	1	17.48
1FQSWMM1	CIRCULAR	4.50	15.90	1.13	4.50	1	53.52
1FQSWMM2	CIRCULAR	4.50	15.90	1.13	4.50	1	111.11
1FQSWMM3	CIRCULAR	2.00	3.14	0.50	2.00	1	22.01
1FQSWMM7	CIRCULAR	4.50	15.90	1.13	4.50	1	103.84
1FQSWMM8	CIRCULAR	2.00	3.14	0.50	2.00	1	24.61
O17SWMM200	CIRCULAR	2.00	3.14	0.50	2.00	1	14.85
O17SWMM201	CIRCULAR	2.00	3.14	0.50	2.00	1	25.69
O17SWMM202	CIRCULAR	2.00	3.14	0.50	2.00	1	24.26

Control Actions Taken

*****	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
*****	-----	-----
Total Precipitation	527.113	2.600
Evaporation Loss	0.000	0.000
Infiltration Loss	127.079	0.627
Surface Runoff	360.760	1.779
Final Surface Storage	39.276	0.194
Continuity Error (%)	-0.000	

*****	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
*****	-----	-----
Dry Weather Inflow	0.000	0.000

Wet Weather Inflow	360.760	117.559
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	6.751	2.200
External Outflow	360.502	117.475
Internal Outflow	0.000	0.000
Storage Losses	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.442	0.144
Continuity Error (%)	1.787	

Highest Continuity Errors

Node COA24916 (3.54%)
Node COA25352 (3.52%)
Node COA24834 (-2.70%)
Node COA7654 (2.45%)
Node COA8985 (1.98%)

Time-Step Critical Elements

None

Highest Flow Instability Indexes

Link ESWMM81 (4)
Link 60SDTOBPS (2)
Link BROADWAYPUMPSTATION (2)
Link BARELASPUMPSTATION (2)
Link 48SDTOBPS (2)

Routing Time Step Summary

Minimum Time Step	:	0.50 sec
Average Time Step	:	1.00 sec
Maximum Time Step	:	1.00 sec
Percent in Steady State	:	0.00
Average Iterations per Step	:	2.21

Subcatchment Runoff Summary

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff 10 ⁶ gal	Peak Runoff CFS	Runoff Coeff
A1	2.60	0.00	0.00	0.87	1.66	1.46	18.12	0.640
A10	2.60	0.00	0.00	0.87	1.65	2.25	24.64	0.635
A11	2.60	0.00	0.00	0.68	1.85	1.83	31.47	0.712
A12	2.60	0.00	0.00	1.01	1.51	4.41	31.40	0.581
A13	2.60	0.00	0.00	0.66	1.85	6.20	42.35	0.712
A15	2.60	0.00	0.00	0.62	1.90	2.39	34.15	0.731
A18	2.60	0.00	0.00	0.99	1.54	1.77	24.46	0.594
A2	2.60	0.00	0.00	1.15	0.00	0.00	0.00	0.000
A3	2.60	0.00	0.00	1.34	1.19	2.86	30.31	0.458
A4	2.60	0.00	0.00	1.03	1.52	0.51	13.38	0.584
A5	2.60	0.00	0.00	1.02	1.51	3.22	30.62	0.581
A6	2.60	0.00	0.00	1.24	1.30	1.67	20.90	0.500
A7	2.60	0.00	0.00	0.93	1.60	1.66	24.08	0.614
A8	2.60	0.00	0.00	0.79	1.73	1.04	23.40	0.665
A9	2.60	0.00	0.00	0.79	1.73	1.37	22.71	0.665

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B1	2.60	0.00	0.00	0.62	1.90	2.06	29.88	0.729
B10	2.60	0.00	0.00	0.64	1.88	0.71	17.34	0.722
B11	2.60	0.00	0.00	1.43	1.15	0.39	11.10	0.443
B12	2.60	0.00	0.00	0.54	1.97	0.51	15.14	0.759
B13	2.60	0.00	0.00	0.71	1.81	0.98	19.53	0.694
B14	2.60	0.00	0.00	0.28	2.24	1.71	39.76	0.860
B15	2.60	0.00	0.00	0.18	2.32	2.63	36.32	0.892
B16	2.60	0.00	0.00	0.26	2.25	1.83	33.26	0.865
B17	2.60	0.00	0.00	0.20	0.00	0.00	0.00	0.000
B18	2.60	0.00	0.00	0.04	0.00	0.00	0.00	0.000
B20	2.60	0.00	0.00	0.26	2.24	1.03	29.73	0.863
B21	2.60	0.00	0.00	0.59	1.93	1.62	29.60	0.744
B22	2.60	0.00	0.00	0.56	1.97	1.79	29.56	0.757
B23	2.60	0.00	0.00	0.02	2.48	0.63	19.50	0.954
B24	2.60	0.00	0.00	0.24	0.00	0.00	0.00	0.000
B25	2.60	0.00	0.00	0.07	2.43	2.62	36.35	0.934
B26	2.60	0.00	0.00	0.60	0.00	0.00	0.00	0.000
B27	2.60	0.00	0.00	0.22	2.28	3.20	39.07	0.879
B28	2.60	0.00	0.00	0.59	1.92	3.38	31.67	0.738
B29	2.60	0.00	0.00	0.73	1.78	5.09	34.99	0.684
B3	2.60	0.00	0.00	0.64	1.90	0.26	10.25	0.731
B30	2.60	0.00	0.00	0.33	2.18	3.06	38.80	0.837
B31	2.60	0.00	0.00	0.27	2.23	2.64	34.75	0.858
B32	2.60	0.00	0.00	0.52	1.99	2.16	33.49	0.765
B33	2.60	0.00	0.00	0.62	1.90	2.63	29.54	0.730
B34	2.60	0.00	0.00	0.45	2.06	2.99	40.56	0.793
B35	2.60	0.00	0.00	0.33	2.18	1.90	41.36	0.839
B36	2.60	0.00	0.00	0.41	2.10	1.45	34.23	0.809
B4	2.60	0.00	0.00	0.95	1.58	0.26	8.48	0.607
B40	2.60	0.00	0.00	0.29	2.22	2.20	54.14	0.854
B41	2.60	0.00	0.00	0.10	1.15	0.77	11.31	0.442
B5	2.60	0.00	0.00	0.64	1.88	3.34	31.12	0.722
B6	2.60	0.00	0.00	0.62	1.90	0.36	10.61	0.729
B7	2.60	0.00	0.00	0.78	1.74	0.54	18.58	0.6
B8	2.60	0.00	0.00	0.65	1.87	1.20	22.18	0.7
BR1	2.60	0.00	0.00	0.38	2.15	1.69	70.88	0.827
BR10	2.60	0.00	0.00	1.08	1.49	1.47	42.40	0.572
BR11	2.60	0.00	0.00	0.53	2.00	0.53	31.84	0.769
BR12	2.60	0.00	0.00	1.40	1.19	0.72	5.47	0.457
BR13	2.60	0.00	0.00	0.46	2.06	1.63	55.48	0.794
BR14	2.60	0.00	0.00	0.19	2.31	1.24	37.01	0.889
BR16	2.60	0.00	0.00	1.45	1.14	0.80	4.82	0.437
BR17	2.60	0.00	0.00	0.65	1.89	2.52	60.64	0.726
BR18	2.60	0.00	0.00	0.39	2.14	1.92	57.19	0.822
BR19	2.60	0.00	0.00	0.40	2.12	1.51	42.71	0.815
BR2	2.60	0.00	0.00	0.89	1.64	0.25	13.33	0.630
BR20	2.60	0.00	0.00	0.18	2.33	1.53	33.72	0.895
BR21	2.60	0.00	0.00	0.26	2.26	1.46	64.21	0.868
BR3	2.60	0.00	0.00	0.53	2.00	2.02	55.96	0.770
BR4	2.60	0.00	0.00	0.35	2.17	2.33	78.00	0.836
BR5	2.60	0.00	0.00	0.47	2.07	0.60	32.53	0.797
BR6	2.60	0.00	0.00	0.32	2.19	1.70	42.89	0.841
BR9	2.60	0.00	0.00	0.26	2.25	3.37	45.33	0.864
B19.1	2.60	0.00	0.00	0.24	2.27	0.94	52.47	0.874
B19.2	2.60	0.00	0.00	0.24	2.27	0.74	44.71	0.874

Node Depth Summary

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
COA6149	JUNCTION	0.11	1.96	4958.47	0 02:04
COA6231	JUNCTION	0.19	3.08	4958.14	0 02:05
COA6045	JUNCTION	0.19	4.33	4961.84	0 03:22
COA15184	JUNCTION	0.58	7.68	4961.87	0 03:20
COA6218	JUNCTION	0.51	8.11	4961.77	0 03:24
COA6195	JUNCTION	0.11	3.93	4966.90	0 01:32

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COA6246	JUNCTION	0.40	3.74	4965.80	0	01:33
COA29163	JUNCTION	0.13	3.43	4965.44	0	01:33
COA7635	JUNCTION	0.06	2.16	4959.50	0	01:31
COA7650	JUNCTION	0.09	2.98	4957.91	0	02:18
COA7656	JUNCTION	0.28	4.67	4957.84	0	02:19
COA7628	JUNCTION	0.20	1.41	4961.85	0	02:27
COA29132	JUNCTION	0.16	3.41	4965.26	0	01:33
COA33027	JUNCTION	0.03	1.07	4958.22	0	00:16
COA33007	JUNCTION	0.01	1.21	4996.08	0	00:16
COA7717	JUNCTION	0.30	6.84	4956.38	0	01:40
COA19719	JUNCTION	0.64	9.98	4962.28	0	07:05
COA7654	JUNCTION	0.69	8.59	4960.26	0	05:47
COA7714	JUNCTION	0.60	4.64	4954.78	0	02:18
COA6259	JUNCTION	0.20	3.93	4957.65	0	02:05
COA7638	JUNCTION	0.78	4.37	4956.99	0	02:05
COA25807	JUNCTION	0.17	2.85	4956.03	0	02:04
COA25349	JUNCTION	0.39	11.07	4956.33	0	02:06
COA25656	JUNCTION	0.54	10.47	4959.33	0	02:26
COA25677	JUNCTION	0.64	10.97	4959.56	0	02:49
COA25622	JUNCTION	0.38	9.61	4957.85	0	01:52
COA7444	JUNCTION	0.25	7.72	4960.59	0	02:01
COA7476	JUNCTION	0.24	7.86	4958.18	0	01:55
COA7518	JUNCTION	0.44	8.95	4956.89	0	02:06
COA24834	JUNCTION	0.54	7.26	4951.78	0	02:48
COA8985	JUNCTION	0.46	11.38	4952.14	0	02:23
COA24859	JUNCTION	0.57	12.00	4950.64	0	01:50
COA9015	JUNCTION	0.07	8.45	4951.36	0	01:57
COA25105	JUNCTION	0.37	10.21	4956.52	0	01:40
COA25117	JUNCTION	0.44	11.29	4956.55	0	01:40
COA25048	JUNCTION	0.37	11.36	4956.28	0	02:04
COA25034	JUNCTION	0.42	10.70	4954.52	0	01:48
COA9045	JUNCTION	0.48	8.65	4950.26	0	01:48
COA25352	JUNCTION	0.41	11.31	4956.37	0	02:06
COA7815	JUNCTION	0.70	13.40	4956.88	0	02:02
COA25253	JUNCTION	0.90	12.95	4954.61	0	02:04
COA7977	JUNCTION	0.58	13.08	4955.02	0	02:04
COA25238	JUNCTION	0.88	13.47	4954.67	0	02:04
COA25240	JUNCTION	0.88	13.87	4955.02	0	02:04
COA22584	JUNCTION	0.64	14.49	4954.67	0	01:55
COA9260	JUNCTION	0.81	14.78	4952.80	0	01:53
COA7740	JUNCTION	0.63	4.80	4954.49	0	02:22
COA7830	JUNCTION	0.79	12.00	4956.87	0	01:55
COA7865	JUNCTION	0.64	9.30	4955.64	0	01:53
COA7908	JUNCTION	0.81	10.00	4956.15	0	01:53
COA7912	JUNCTION	0.26	10.68	4956.29	0	01:53
COA7955	JUNCTION	1.60	12.00	4955.49	0	02:01
COA22517	JUNCTION	0.30	11.00	4954.59	0	01:58
COA7716	JUNCTION	0.30	7.07	4955.95	0	01:40
COA7766JB	JUNCTION	0.58	10.02	4953.97	0	02:17
COA7769JB	JUNCTION	0.37	9.08	4953.60	0	02:19
COA32865	JUNCTION	0.41	8.20	4953.69	0	02:20
COA32878	JUNCTION	0.86	8.35	4954.95	0	01:58
COA7848	JUNCTION	0.16	8.71	4956.38	0	01:58
COA7861	JUNCTION	0.26	17.61	4965.37	0	01:28
COA7870	JUNCTION	0.10	30.75	4988.50	0	01:28
COA29178	JUNCTION	4.81	39.00	4995.78	0	01:28
COA7816	JUNCTION	0.72	13.17	4957.36	0	02:03
COA25109	JUNCTION	0.36	10.68	4956.55	0	01:39
BPSINLET	JUNCTION	0.62	14.50	4953.39	0	02:17
COA9310	JUNCTION	0.23	11.55	4953.95	0	02:09
COA9348	JUNCTION	0.38	11.79	4951.42	0	01:58
COA9344	JUNCTION	3.39	15.71	4951.54	0	01:53
COA9340	JUNCTION	2.77	16.65	4952.29	0	01:52
COA22250	JUNCTION	0.38	13.58	4951.14	0	02:06
COA22429	JUNCTION	0.33	13.07	4950.33	0	01:56
COA13866	JUNCTION	0.67	12.08	4947.44	0	01:53
COA24930	JUNCTION	0.35	11.05	4948.22	0	02:13
COA24916	JUNCTION	0.25	10.36	4948.61	0	01:51
COA9248	JUNCTION	0.10	10.07	4957.72	0	02:04
COA32981	JUNCTION	0.73	9.44	4940.83	0	02:56
COA9121	JUNCTION	0.78	9.36	4940.52	0	02:09
COA24902	JUNCTION	1.35	5.78	4944.85	0	01:52

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COA24902A	JUNCTION	0.53	3.73	4943.46	0	01:52
COA9069	JUNCTION	0.13	6.58	4947.43	0	01:51
COA24997	JUNCTION	0.52	10.96	4947.10	0	01:51
COA9083	JUNCTION	0.64	6.22	4941.55	0	01:52
UPSINLET	JUNCTION	0.22	5.66	4936.15	0	02:23
COA9407	JUNCTION	0.05	1.30	4945.70	0	01:30
COA9426	JUNCTION	0.07	2.03	4945.06	0	01:31
COA22194	JUNCTION	0.06	1.77	4943.77	0	01:31
COA22191	JUNCTION	0.05	1.81	4942.60	0	01:32
COA9431	JUNCTION	0.19	2.24	4941.51	0	01:33
COA22176	JUNCTION	0.08	2.29	4940.74	0	01:34
COA22168	JUNCTION	0.04	1.13	4937.69	0	01:35
COA22174	JUNCTION	0.53	8.53	4937.02	0	01:53
COA22155	JUNCTION	0.59	8.59	4936.94	0	01:53
COA9141	JUNCTION	0.71	8.23	4936.44	0	01:53
COA22410	JUNCTION	0.90	8.98	4937.34	0	02:01
COA9129	JUNCTION	0.74	9.17	4939.41	0	02:09
COA9143	JUNCTION	0.72	7.83	4935.11	0	01:55
COA22144	JUNCTION	0.80	7.09	4931.88	0	01:56
COA22145	JUNCTION	0.79	7.59	4933.44	0	01:55
COA22143	JUNCTION	0.83	6.84	4930.83	0	01:56
COA10456	JUNCTION	1.00	7.29	4930.05	0	07:06
BaPSINLET	JUNCTION	0.23	4.71	4926.72	0	01:56
COA7963.05A	JUNCTION	0.04	1.63	4973.61	0	00:13
COA7963.05M	JUNCTION	0.21	4.99	4957.68	0	02:30
COA7963.11A	JUNCTION	0.66	5.94	4957.61	0	02:26
COA7963.T	JUNCTION	0.63	9.04	4941.25	0	02:56
COA32878.A	JUNCTION	0.26	7.14	4954.33	0	01:58
COA32878.B	JUNCTION	0.34	7.67	4953.94	0	02:29
APSINLET	JUNCTION	0.24	8.46	4938.12	0	01:53
IRON14TH	JUNCTION	0.12	6.97	4946.04	0	01:51
BLDWEIR	JUNCTION	1.23	8.90	4955.50	0	01:58
BLUWEIR	JUNCTION	0.86	8.92	4955.52	0	01:58
COA22169	JUNCTION	0.23	3.24	4942.59	0	01:58
COA22127	JUNCTION	0.18	2.32	4940.18	0	01:52
COA32823	JUNCTION	0.06	3.06	4936.15	0	02:23
COA9453	JUNCTION	0.31	2.91	4941.98	0	01:58
MHB22410	JUNCTION	0.86	9.29	4937.71	0	02:01
COA9152	JUNCTION	5.08	10.83	4940.50	0	02:02
COA9229	JUNCTION	20.02	27.29	4940.44	0	02:05
MHB19A	JUNCTION	0.15	3.15	4936.15	0	02:24
MH3	JUNCTION	0.07	0.69	4964.69	0	02:05
MH2	JUNCTION	0.06	0.63	4971.13	0	02:05
MH1	JUNCTION	0.09	0.89	4974.89	0	02:03
APSOUTLET	OUTFALL	0.00	0.00	4960.84	0	00:00
BPSOUTLET	OUTFALL	0.00	0.00	5106.00	0	00:00
BaPSOUTLET	OUTFALL	0.00	0.00	4941.69	0	00:00
OUT1	OUTFALL	0.00	0.00	5061.00	0	00:00
AIRQUALITYPOND	STORAGE	0.28	5.41	4957.67	0	02:30
TINGLEYPARKSURGEPOND	STORAGE	0.63	9.04	4941.25	0	02:56
BROADWAYMARBLEPOND	STORAGE	0.40	7.92	4953.92	0	02:28
NORTHWELLSPOND	STORAGE	0.81	6.81	4957.81	0	05:40
SANTABARBOND	STORAGE	0.22	2.01	4963.01	0	02:48
CORONADOPOND	STORAGE	0.60	8.70	4961.70	0	03:29
BR21POND	STORAGE	0.21	6.48	5068.48	0	02:26

Node Inflow Summary

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal
COA6149	JUNCTION	11.31	11.31	0 02:03	0.774	0.777
COA6231	JUNCTION	29.54	39.96	0 02:03	2.632	3.410
COA6045	JUNCTION	34.23	34.23	0 01:33	1.448	1.448
COA15184	JUNCTION	40.56	71.91	0 01:42	2.986	4.435
COA6218	JUNCTION	0.00	70.81	0 01:42	0.000	4.400

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COA6195	JUNCTION	57.18	57.18	0	01:30	1.922	1.922
COA6246	JUNCTION	0.00	56.10	0	01:32	0.000	1.923
COA29163	JUNCTION	0.00	56.14	0	01:32	0.000	1.921
COA7635	JUNCTION	37.01	37.01	0	01:33	1.242	1.242
COA7650	JUNCTION	0.00	37.21	0	01:32	0.000	1.243
COA7656	JUNCTION	55.47	94.62	0	01:32	1.634	9.079
COA7628	JUNCTION	0.00	31.10	0	03:15	0.000	5.920
COA29132	JUNCTION	63.83	119.39	0	01:32	3.317	5.239
COA33027	JUNCTION	31.84	42.12	0	00:16	0.529	1.365
COA33007	JUNCTION	43.49	43.49	0	00:15	0.809	0.809
COA7717	JUNCTION	45.33	110.38	0	01:37	3.367	16.212
COA19719	JUNCTION	0.00	39.93	0	07:03	0.000	8.535
COA7654	JUNCTION	34.75	65.52	0	02:06	2.641	11.038
COA7714	JUNCTION	0.00	35.37	0	05:56	0.000	14.080
COA6259	JUNCTION	0.00	39.49	0	02:03	0.000	3.405
COA7638	JUNCTION	33.49	69.55	0	02:02	2.159	5.565
COA25807	JUNCTION	0.00	69.54	0	02:02	0.000	5.560
COA25349	JUNCTION	34.99	182.23	0	02:09	5.088	10.656
COA25656	JUNCTION	31.40	31.40	0	02:03	4.407	4.407
COA25677	JUNCTION	0.00	53.25	0	02:52	0.000	4.503
COA25622	JUNCTION	22.71	48.02	0	02:12	1.367	5.808
COA7444	JUNCTION	36.85	36.85	0	01:48	2.893	2.893
COA7476	JUNCTION	24.46	70.05	0	01:48	1.767	4.641
COA7518	JUNCTION	31.47	88.93	0	01:45	1.826	6.452
COA24834	JUNCTION	42.35	120.50	0	02:03	6.199	12.573
COA8985	JUNCTION	20.90	102.17	0	01:44	1.667	14.579
COA24859	JUNCTION	13.38	118.38	0	01:46	0.512	14.810
COA9015	JUNCTION	0.00	39.97	0	01:45	0.000	1.886
COA25105	JUNCTION	23.40	71.81	0	01:38	1.036	6.743
COA25117	JUNCTION	0.00	72.75	0	01:40	0.000	6.561
COA25048	JUNCTION	24.64	112.58	0	01:40	2.246	8.769
COA25034	JUNCTION	24.08	120.19	0	01:49	1.659	10.429
COA9045	JUNCTION	30.62	128.23	0	02:00	3.221	13.642
COA25352	JUNCTION	0.00	288.90	0	02:08	0.000	10.461
COA7815	JUNCTION	0.00	259.54	0	02:22	0.000	32.098
COA25253	JUNCTION	0.00	176.33	0	02:02	0.000	31.740
COA7977	JUNCTION	0.00	176.06	0	02:02	0.000	31.727
COA25238	JUNCTION	0.00	175.89	0	02:02	0.000	31.797
COA25240	JUNCTION	0.00	165.88	0	02:00	0.000	31.845
COA22584	JUNCTION	0.00	166.46	0	02:00	0.000	31.888
COA9260	JUNCTION	47.72	203.14	0	02:04	2.416	34.254
COA7740	JUNCTION	39.07	47.25	0	03:01	3.196	17.141
COA7830	JUNCTION	0.00	110.08	0	01:34	0.000	21.498
COA7865	JUNCTION	36.35	81.89	0	01:58	2.616	5.556
COA7908	JUNCTION	0.00	81.89	0	01:58	0.000	5.539
COA7912	JUNCTION	0.00	83.48	0	01:58	0.000	5.551
COA7955	JUNCTION	0.00	95.76	0	02:01	0.000	5.590
COA22517	JUNCTION	29.73	131.79	0	02:11	1.033	8.273
COA7716	JUNCTION	0.00	103.87	0	01:40	0.000	16.208
COA7766JB	JUNCTION	42.89	145.06	0	01:40	1.700	17.912
COA7769JB	JUNCTION	0.00	69.72	0	01:40	0.000	10.381
COA32865	JUNCTION	0.00	32.31	0	01:40	0.000	5.864
COA32878	JUNCTION	42.70	191.57	0	01:30	1.509	6.691
COA7848	JUNCTION	33.72	99.83	0	01:30	1.525	4.476
COA7861	JUNCTION	0.00	148.86	0	01:30	0.000	4.292
COA7870	JUNCTION	77.98	148.83	0	01:30	2.604	4.291
COA29178	JUNCTION	70.86	70.86	0	01:30	1.688	1.688
COA7816	JUNCTION	31.67	125.19	0	02:27	3.382	21.990
COA25109	JUNCTION	0.00	84.71	0	01:40	0.000	6.669
BPSINLET	JUNCTION	0.00	125.00	0	02:17	0.000	23.026
COA9310	JUNCTION	0.00	114.22	0	02:11	0.000	8.189
COA9348	JUNCTION	33.26	142.11	0	01:56	1.828	9.942
COA9344	JUNCTION	36.32	217.90	0	02:00	2.630	12.413
COA9340	JUNCTION	0.00	195.48	0	01:58	0.000	12.260
COA22250	JUNCTION	0.00	162.52	0	01:55	0.000	12.259
COA22429	JUNCTION	39.76	183.04	0	01:50	1.715	13.914
COA13866	JUNCTION	19.53	406.43	0	01:53	0.982	52.193
COA24930	JUNCTION	29.60	114.71	0	02:12	1.623	3.137
COA24916	JUNCTION	18.12	70.51	0	01:51	1.463	1.690
COA9248	JUNCTION	44.71	49.09	0	01:30	0.742	1.696
COA32981	JUNCTION	0.00	280.59	0	03:20	0.000	52.500
COA9121	JUNCTION	0.00	280.71	0	03:20	0.000	52.501

COA24902	JUNCTION	0.00	137.06	0	01:51	0.000	13.731
COA24902A	JUNCTION	0.00	147.05	0	01:52	0.000	15.147
COA9069	JUNCTION	30.31	57.36	0	01:57	2.864	4.775
COA24997	JUNCTION	0.00	96.49	0	01:51	0.000	16.192
COA9083	JUNCTION	0.00	226.62	0	01:53	0.000	31.337
UPSINLET	JUNCTION	0.00	11.39	0	02:23	0.000	0.955
COA9407	JUNCTION	15.13	15.13	0	01:30	0.509	0.509
COA9426	JUNCTION	18.58	32.99	0	01:30	0.545	1.054
COA22194	JUNCTION	0.00	32.74	0	01:31	0.000	1.048
COA22191	JUNCTION	0.00	32.66	0	01:32	0.000	1.052
COA9431	JUNCTION	10.61	42.42	0	01:32	0.363	1.414
COA22176	JUNCTION	0.00	42.16	0	01:33	0.000	1.414
COA22168	JUNCTION	0.00	41.97	0	01:34	0.000	1.414
COA22174	JUNCTION	8.48	48.26	0	01:34	0.256	1.671
COA22155	JUNCTION	17.34	66.02	0	01:35	0.708	2.378
COA9141	JUNCTION	10.25	317.53	0	01:49	0.262	56.339
COA22410	JUNCTION	0.00	285.00	0	03:07	0.000	53.698
COA9129	JUNCTION	0.00	280.56	0	03:20	0.000	52.501
COA9143	JUNCTION	0.00	311.00	0	01:53	0.000	56.339
COA22144	JUNCTION	0.00	307.21	0	01:54	0.000	56.340
COA22145	JUNCTION	0.00	307.62	0	01:53	0.000	56.340
COA22143	JUNCTION	0.00	307.13	0	01:56	0.000	56.340
COA10456	JUNCTION	0.00	365.93	0	01:56	0.000	61.748
BaPSINLET	JUNCTION	0.00	365.91	0	01:56	0.000	61.794
COA7963.05A	JUNCTION	48.69	48.69	0	00:12	1.226	1.226
COA7963.05M	JUNCTION	42.40	74.22	0	01:30	1.472	2.706
COA7963.11A	JUNCTION	0.00	92.21	0	01:33	0.000	13.130
COA7963.T	JUNCTION	0.00	361.84	0	01:53	0.000	53.331
COA32878.A	JUNCTION	13.33	138.02	0	01:30	0.252	4.785
COA32878.B	JUNCTION	0.00	138.12	0	01:30	0.000	4.750
APSINLET	JUNCTION	0.00	226.97	0	01:53	0.000	31.337
IRON14TH	JUNCTION	0.00	54.30	0	01:50	0.000	0.152
BLDWEIR	JUNCTION	0.00	67.21	0	01:30	0.000	2.955
BLUWEIR	JUNCTION	0.00	67.21	0	01:30	0.000	2.981
COA22169	JUNCTION	31.12	31.12	0	01:57	3.340	3.340
COA22127	JUNCTION	29.88	59.17	0	01:49	2.064	5.403
COA32823	JUNCTION	0.00	13.60	0	01:45	0.000	0.981
COA9453	JUNCTION	0.00	31.12	0	01:57	0.000	3.340
MHB22410	JUNCTION	22.18	285.00	0	03:07	1.198	53.699
COA9152	JUNCTION	52.46	52.46	0	01:30	0.944	0.944
COA9229	JUNCTION	0.00	47.34	0	01:30	0.000	0.938
MHB19A	JUNCTION	0.00	2.07	0	01:46	0.000	0.026
MH3	JUNCTION	0.00	5.41	0	02:05	0.000	0.719
MH2	JUNCTION	0.00	5.44	0	02:03	0.000	0.719
MH1	JUNCTION	5.47	5.47	0	02:03	0.719	0.719
APSOUTLET	OUTFALL	0.00	226.94	0	01:53	0.000	31.337
BPSOUTLET	OUTFALL	0.00	125.00	0	02:17	0.000	23.026
BaPSOUTLET	OUTFALL	0.00	365.91	0	01:56	0.000	61.645
OUT1	OUTFALL	0.00	9.48	0	02:26	0.000	1.459
AIRQUALITYPOND	STORAGE	0.00	111.67	0	01:30	0.000	4.086
TINGLEYPARKSURGE POND	STORAGE	11.10	122.39	0	01:53	0.388	1.218
BROADWAYMARBLEPOND	STORAGE	55.95	216.29	0	01:30	2.024	6.323
NORTHWELLS POND	STORAGE	38.79	115.68	0	02:03	3.059	13.943
SANTABARB POND	STORAGE	0.00	132.91	0	01:33	0.000	5.959
CORONADO POND	STORAGE	95.40	161.59	0	01:36	4.099	8.524
BR21 POND	STORAGE	64.20	64.20	0	01:30	1.459	1.459

Node Surcharge Summary

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

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
COA15184	JUNCTION	5.59	2.998	2.362
COA6218	JUNCTION	5.73	3.138	1.232
COA7717	JUNCTION	1.68	1.716	2.354
COA19719	JUNCTION	7.33	5.480	0.000

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COA7654	JUNCTION	5.93	4.091	0.000
COA7714	JUNCTION	0.68	0.641	3.219
COA25349	JUNCTION	1.95	5.574	0.000
COA25656	JUNCTION	3.34	7.468	0.000
COA25677	JUNCTION	1.78	7.902	0.000
COA25622	JUNCTION	1.50	6.468	0.000
COA7444	JUNCTION	0.30	3.140	0.000
COA7476	JUNCTION	0.64	3.349	0.000
COA7518	JUNCTION	1.40	4.348	0.000
COA24834	JUNCTION	2.96	0.814	0.000
COA8985	JUNCTION	2.94	5.450	0.000
COA24859	JUNCTION	2.41	4.504	0.000
COA9015	JUNCTION	0.05	5.451	0.000
COA25105	JUNCTION	1.19	6.207	0.000
COA25117	JUNCTION	1.39	7.275	0.000
COA25048	JUNCTION	0.93	6.360	0.000
COA25034	JUNCTION	0.95	5.702	0.000
COA9045	JUNCTION	0.62	3.590	0.000
COA25352	JUNCTION	2.07	5.815	0.000
COA7815	JUNCTION	2.30	7.303	0.000
COA25253	JUNCTION	2.23	6.952	0.000
COA7977	JUNCTION	1.99	7.080	0.000
COA25238	JUNCTION	2.11	7.241	0.000
COA25240	JUNCTION	1.81	7.560	0.000
COA22584	JUNCTION	2.17	8.490	0.000
COA9260	JUNCTION	2.25	7.780	0.000
COA7740	JUNCTION	0.08	0.303	3.447
COA7830	JUNCTION	0.90	4.291	0.000
COA7865	JUNCTION	1.08	3.818	1.162
COA7908	JUNCTION	1.20	5.000	0.000
COA7912	JUNCTION	0.57	4.460	0.000
COA7955	JUNCTION	1.22	5.113	0.000
COA22517	JUNCTION	1.69	5.502	0.000
COA7716	JUNCTION	1.89	1.886	2.164
COA7766JB	JUNCTION	3.80	5.308	2.312
COA7769JB	JUNCTION	3.27	4.077	2.733
COA32865	JUNCTION	3.91	4.676	3.424
COA32878	JUNCTION	1.71	2.334	0.806
COA7848	JUNCTION	0.20	2.710	0.000
COA7861	JUNCTION	2.28	13.114	0.000
COA7870	JUNCTION	0.14	24.003	0.000
COA29178	JUNCTION	0.76	31.730	0.000
COA7816	JUNCTION	1.98	7.171	0.000
COA25109	JUNCTION	1.37	6.675	0.000
BPSINLET	JUNCTION	3.49	4.400	6.500
COA9310	JUNCTION	1.50	6.051	0.000
COA9348	JUNCTION	2.21	5.752	0.000
COA9344	JUNCTION	2.35	6.351	0.000
COA9340	JUNCTION	2.51	7.981	0.000
COA22250	JUNCTION	2.58	7.581	0.000
COA22429	JUNCTION	2.56	7.070	0.000
COA13866	JUNCTION	2.35	4.082	0.000
COA24930	JUNCTION	2.19	5.052	0.000
COA24916	JUNCTION	1.72	4.831	0.000
COA9248	JUNCTION	0.03	6.074	0.000
COA32981	JUNCTION	2.75	1.443	8.417
COA9121	JUNCTION	2.75	1.362	8.138
COA9069	JUNCTION	0.09	3.474	2.216
COA24997	JUNCTION	0.57	4.120	2.390
COA9083	JUNCTION	0.34	0.718	6.402
UPSINLET	JUNCTION	2.22	2.161	22.999
COA22174	JUNCTION	3.40	3.525	8.055
COA22155	JUNCTION	3.44	3.589	8.301
COA9141	JUNCTION	0.25	0.235	9.645
COA22410	JUNCTION	2.46	0.984	9.766
COA9129	JUNCTION	2.74	1.173	6.837
COA7963.11A	JUNCTION	1.32	0.722	3.538
COA7963.T	JUNCTION	2.73	1.042	0.206
COA32878.A	JUNCTION	2.68	2.642	1.248
COA32878.B	JUNCTION	3.39	3.173	1.907
BLDWEIR	JUNCTION	1.12	2.896	0.264
BLUWEIR	JUNCTION	1.67	2.924	0.236

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MHB22410	JUNCTION	2.77	1.293	9.457
COA9229	JUNCTION	0.82	1.294	0.000
AIRQUALITYPOND	STORAGE	1.05	0.413	6.987
TINGLEYPARKSURGE	STORAGE	2.74	1.041	7.409
BROADWAYMARBLEPOND	STORAGE	3.59	3.418	2.082
NORTHWELLSPOND	STORAGE	8.94	2.314	2.186
CORONADOPOND	STORAGE	7.29	4.201	2.299
BR21POND	STORAGE	143.00	6.476	7.524

***** Node Flooding Summary *****

Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days hr:min	Total Flood Volume 10^6 gal	Maximum Ponded Depth Feet
COA19719	0.04	27.98	0 07:05	0.004	9.98
COA7654	2.63	20.18	0 06:46	0.264	8.59
COA25349	0.17	156.85	0 02:09	0.067	11.07
COA25656	1.78	15.62	0 02:03	0.234	10.47
COA25677	0.16	37.79	0 02:49	0.015	10.97
COA25622	0.89	26.18	0 02:18	0.070	9.61
COA7444	0.19	13.68	0 01:45	0.012	7.72
COA7476	0.57	28.04	0 01:45	0.050	7.86
COA7518	0.78	24.98	0 01:45	0.098	8.95
COA24834	2.63	68.44	0 01:59	0.943	7.26
COA8985	0.25	29.68	0 01:55	0.033	11.38
COA24859	0.12	33.75	0 01:56	0.017	12.00
COA9015	0.01	9.98	0 02:02	0.001	8.45
COA25105	0.37	50.23	0 01:46	0.037	10.21
COA25117	0.11	65.14	0 01:40	0.016	11.29
COA25048	0.10	35.98	0 01:37	0.019	11.36
COA25034	0.18	50.28	0 01:51	0.029	10.70
COA9045	0.03	14.37	0 01:39	0.003	8.65
COA25352	0.10	165.82	0 02:06	0.036	11.31
COA7815	0.18	106.15	0 02:01	0.087	13.40
COA25253	0.01	29.17	0 02:04	0.002	12.95
COA25238	0.01	28.10	0 02:04	0.001	13.47
COA22584	0.01	39.33	0 01:50	0.001	14.49
COA9260	0.02	38.84	0 01:50	0.004	14.78
COA7830	0.01	46.19	0 01:57	0.002	12.00
COA7955	0.08	50.81	0 02:04	0.023	12.00
COA22517	0.21	51.31	0 02:04	0.049	11.00
COA7848	0.01	7.33	0 01:58	0.000	8.71
COA7816	0.31	70.74	0 02:01	0.094	13.17
COA25109	0.22	42.84	0 01:44	0.026	10.68
COA9310	0.09	36.59	0 02:00	0.016	11.55
COA9348	0.09	66.58	0 02:04	0.027	11.79
COA9344	0.04	74.29	0 01:55	0.013	15.71
COA9340	0.01	76.57	0 01:53	0.005	16.65
COA22250	0.01	65.23	0 02:06	0.004	13.58
COA22429	0.01	23.35	0 02:08	0.000	13.07
COA13866	0.01	69.44	0 01:53	0.006	12.08
COA24930	0.15	78.45	0 02:13	0.040	11.05
COA24916	0.05	44.57	0 01:51	0.011	10.36
COA9248	0.02	17.99	0 02:00	0.002	10.07
COA9229	0.51	9.54	0 01:52	0.024	27.29

***** Storage Volume Summary *****

Storage Unit	Average Volume 1000 ft3	Avg Pcnt Full	E&I Pcnt Loss	Maximum Volume 1000 ft3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
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AIRQUALITYPOND	4.968	1	0	211.043	30	0	02:30	36.27
TINGLEYPARKSURGEPOND	1.699	0	0	116.176	4	0	02:56	47.93
BROADWAYMARBLEPOND	23.739	4	0	488.065	78	0	02:28	41.69
NORTHWELLSPOND	59.808	8	0	527.937	73	0	05:40	45.71
SANTABARBOPOND	28.188	2	0	260.187	16	0	02:48	31.10
CORONADOPOND	28.360	5	0	435.176	76	0	03:29	38.49
BR21POND	2.772	1	0	93.908	35	0	02:26	9.48

***** Outfall Loading Summary *****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume 10^6 gal
APSOUTLET	99.28	8.64	226.94	31.337
BPSOUTLET	99.81	6.30	125.00	23.026
BaPSOUTLET	94.78	17.85	365.91	61.645
OUT1	43.07	0.94	9.48	1.459
System	84.23	33.73	715.55	117.466

***** Link Flow Summary *****

Link	Type	Maximum Flow CFS	Time of Max Occurrence days hr:min	Maximum Veloc ft/sec	Max/ Full Flow	Max/ Full Depth
ESWMM57	CONDUIT	11.04	0 02:04	1.97	0.32	0.66
1FOSWMM6	CONDUIT	33.47	0 01:37	3.67	0.29	0.98
1FOSWMM7	CONDUIT	70.81	0 01:42	5.40	3.95	1.00
1FQSWMM17	CONDUIT	56.10	0 01:32	3.90	0.81	0.85
1FQSWMM18	CONDUIT	56.14	0 01:32	4.32	0.57	0.76
1FOSWMM19	CONDUIT	37.21	0 01:32	5.35	0.44	0.57
1FOSWMM20	CONDUIT	36.58	0 01:35	3.80	0.43	0.87
ESWMM41	CONDUIT	9.42	0 00:16	5.67	0.52	0.73
1FOSWMM22	CONDUIT	31.09	0 02:27	6.68	0.27	0.64
ESWMM42	CONDUIT	42.12	0 00:16	13.85	0.17	0.29
1FQSWMM4	CONDUIT	92.21	0 01:33	6.01	0.56	0.97
1FQSWMM9	CONDUIT	38.48	0 02:45	2.42	1.12	1.00
ESWMM58	CONDUIT	39.49	0 02:03	4.44	0.61	0.80
ESWMM59	CONDUIT	39.90	0 02:07	2.65	0.64	0.92
ESWMM60	CONDUIT	69.54	0 02:02	5.42	0.90	0.80
ESWMM91	CONDUIT	53.25	0 02:52	7.53	4.28	1.00
ESWMM92	CONDUIT	36.49	0 02:57	5.16	3.37	1.00
1FQSWMM10	CONDUIT	48.45	0 02:20	3.79	0.60	1.00
1FQSWMM11	CONDUIT	64.52	0 02:22	4.13	0.70	1.00
1FQSWMM12	CONDUIT	78.41	0 01:48	5.18	1.50	1.00
1FQSWMM13	CONDUIT	90.30	0 02:28	5.68	1.23	1.00
1FQSWMM14	CONDUIT	108.92	0 01:46	6.85	0.90	1.00
ESWMM6	CONDUIT	39.97	0 01:45	6.42	3.48	1.00
ESWMM93	CONDUIT	50.33	0 01:38	7.12	1.67	1.00
ESWMM94	CONDUIT	84.71	0 01:40	6.74	1.60	1.00
ESWMM96	CONDUIT	88.48	0 01:40	7.04	2.28	1.00
ESWMM97	CONDUIT	97.24	0 01:49	4.95	1.05	1.00
ESWMM98	CONDUIT	100.03	0 01:37	5.38	1.25	1.00
ESWMM61	CONDUIT	84.52	0 02:05	4.74	0.51	0.76
ESWMM62	CONDUIT	288.90	0 02:08	12.16	1.60	1.00
ESWMM63	CONDUIT	158.36	0 02:02	6.67	0.84	1.00
ESWMM64	CONDUIT	176.33	0 02:02	6.24	1.28	1.00
ESWMM65	CONDUIT	176.06	0 02:02	6.23	0.38	1.00
ESWMM66	CONDUIT	175.89	0 02:02	6.22	0.73	1.00
ESWMM67	CONDUIT	165.88	0 02:00	5.87	0.90	1.00
ESWMM68	CONDUIT	166.46	0 02:00	5.89	0.83	1.00

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ESWMM69	CONDUIT	166.75	0	02:04	5.90	0.89	1.00
ESWMM30	CONDUIT	35.39	0	05:56	2.99	0.80	1.00
ESWMM29	CONDUIT	48.45	0	03:00	4.31	0.67	1.00
ESWMM28	CONDUIT	45.72	0	01:58	3.85	0.62	1.00
ESWMM27	CONDUIT	81.89	0	01:58	4.17	1.46	1.00
ESWMM26	CONDUIT	83.48	0	01:58	5.41	0.15	1.00
ESWMM25	CONDUIT	95.76	0	02:01	4.88	1.20	1.00
ESWMM24	CONDUIT	84.70	0	02:11	3.57	0.74	1.00
ESWMM50	CONDUIT	70.86	0	01:30	10.02	3.58	1.00
ESWMM51	CONDUIT	148.86	0	01:30	11.85	0.81	1.00
ESWMM52	CONDUIT	148.87	0	01:30	9.36	1.56	1.00
BLUPIPE	CONDUIT	67.21	0	01:30	2.38	2.09	1.00
1FQSWMM6	CONDUIT	103.87	0	01:40	11.24	0.21	1.00
ESWMM47	CONDUIT	104.39	0	01:40	5.16	0.51	1.00
ESWMM48	CONDUIT	69.72	0	01:40	5.55	0.67	1.00
ESWMM49	CONDUIT	32.31	0	01:40	5.43	0.61	1.00
ESWMM54	CONDUIT	89.47	0	01:34	5.12	0.52	1.00
ESWMM55	CONDUIT	101.01	0	02:27	3.63	0.92	1.00
ESWMM56	CONDUIT	143.93	0	02:16	5.09	1.27	1.00
ESWMM95	CONDUIT	68.28	0	01:44	5.43	1.31	1.00
48SDTOBPS	CONDUIT	75.48	0	01:40	6.01	1.79	1.00
ESWMM23	CONDUIT	48.86	0	01:30	5.31	0.54	1.00
ESWMM22	CONDUIT	114.22	0	02:11	4.83	1.11	1.00
ESWMM21	CONDUIT	111.42	0	01:56	4.69	0.71	1.00
ESWMM20	CONDUIT	182.13	0	02:00	6.44	1.29	1.00
ESWMM19	CONDUIT	195.48	0	01:58	6.91	1.29	1.00
ESWMM18	CONDUIT	162.52	0	01:55	5.75	1.06	1.00
ESWMM17	CONDUIT	147.58	0	01:50	5.22	1.31	1.00
ESWMM16	CONDUIT	183.97	0	01:50	6.51	0.74	1.00
ESWMM70	CONDUIT	192.58	0	01:55	5.00	0.95	1.00
ESWMM15	CONDUIT	68.13	0	02:13	3.28	0.58	1.00
ESWMM71	CONDUIT	361.84	0	01:53	7.20	0.77	1.00
ESWMM72	CONDUIT	280.71	0	03:20	5.58	0.62	1.00
ESWMM7	CONDUIT	27.76	0	01:57	4.24	1.21	1.00
ESWMM12	CONDUIT	126.20	0	01:52	6.74	1.95	0.71
ESWMM9	CONDUIT	24.30	0	01:57	3.44	0.83	1.00
ESWMM99	CONDUIT	131.93	0	01:49	7.19	1.34	0.95
ESWMM8	CONDUIT	35.42	0	01:51	10.28	0.27	1.00
ESWMM10	CONDUIT	93.49	0	01:51	7.44	1.53	1.00
ESWMM11	CONDUIT	139.93	0	01:53	7.93	0.52	0.84
ESWMM90	CONDUIT	15.00	0	01:31	3.38	0.28	0.47
ESWMM89	CONDUIT	32.74	0	01:31	5.60	0.46	0.47
ESWMM88	CONDUIT	32.66	0	01:32	5.58	0.28	0.40
ESWMM87	CONDUIT	32.48	0	01:33	4.69	0.26	0.45
ESWMM86	CONDUIT	42.16	0	01:33	5.49	0.31	0.49
ESWMM85	CONDUIT	41.97	0	01:34	7.59	0.41	0.38
ESWMM84	CONDUIT	41.85	0	01:35	3.59	0.11	0.61
ESWMM83	CONDUIT	49.69	0	01:35	2.53	1.08	1.00
ESWMM82	CONDUIT	65.07	0	01:35	3.37	2.78	1.00
ESWMM73	CONDUIT	280.56	0	03:20	5.58	1.07	1.00
ESWMM76	CONDUIT	311.00	0	01:53	6.24	0.95	0.99
ESWMM77	CONDUIT	307.62	0	01:53	6.26	1.01	0.96
ESWMM78	CONDUIT	307.21	0	01:54	6.39	1.16	0.92
ESWMM79	CONDUIT	307.13	0	01:56	6.71	0.99	0.87
ESWMM80	CONDUIT	307.10	0	01:56	7.11	0.97	0.83
ESWMM81	CONDUIT	365.91	0	01:56	13.50	1.33	0.70
ESWMM14	CONDUIT	63.43	0	02:12	2.67	0.56	1.00
ESWMM13	CONDUIT	54.30	0	01:50	2.37	0.50	1.00
ESWMM125	CONDUIT	47.63	0	00:14	7.68	0.19	0.54
1FQSWMM5	CONDUIT	76.76	0	03:26	4.97	0.74	1.00
ESWMM71A	CONDUIT	280.59	0	03:20	5.58	0.45	1.00
ESWMM126	CONDUIT	118.92	0	01:53	2.37	3.14	1.00
ESWMM127	CONDUIT	36.27	0	03:46	4.18	0.55	1.00
ESWMM128	CONDUIT	32.77	0	00:16	8.70	0.14	0.57
ESWMM129	CONDUIT	66.74	0	01:30	6.86	0.35	1.00
ESWMM132	CONDUIT	124.77	0	01:30	7.84	0.69	1.00
60SDTOBPS	CONDUIT	61.87	0	02:29	6.34	0.27	1.00
ESWMM135	CONDUIT	226.97	0	01:53	10.22	2.69	0.88
ESWMM53	CONDUIT	68.49	0	01:30	3.69	0.30	1.00
ESWMM75	CONDUIT	285.01	0	03:07	5.73	2.09	1.00
1FOSWMM13	CONDUIT	31.12	0	01:57	3.05	0.61	0.77
1FOSWMM14	CONDUIT	31.10	0	01:59	3.68	0.60	0.64

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1FOSWMM15	CONDUIT	59.07	0	01:52	7.95	0.61	0.57
ESWMM201	CONDUIT	13.60	0	01:45	7.79	8.63	1.00
ESWMM203	CONDUIT	11.39	0	02:23	9.65	0.08	0.94
ESWMM200	CONDUIT	47.34	0	01:30	3.40	0.40	0.99
ESWMM202	CONDUIT	2.07	0	01:46	1.08	0.03	0.48
ESWMM500	CONDUIT	64.31	0	01:45	5.12	1.40	1.00
ESWMM74	CONDUIT	280.55	0	03:25	5.58	0.94	1.00
ESWMM74A	CONDUIT	285.00	0	03:07	5.19	1.11	1.00
1FOSWMM1	CONDUIT	138.12	0	01:30	8.73	0.79	1.00
1FOSWMM2	CONDUIT	138.15	0	01:30	12.34	1.46	1.00
1FOSWMM3	CONDUIT	32.32	0	01:40	6.58	1.46	1.00
1FOSWMM4	CONDUIT	64.60	0	02:08	5.89	1.67	1.00
1FOSWMM5	CONDUIT	35.37	0	05:56	5.00	2.02	1.00
1FQSWMM1	CONDUIT	56.28	0	01:34	4.39	1.05	0.76
1FQSWMM2	CONDUIT	130.30	0	01:33	20.83	1.17	0.47
1FQSWMM3	CONDUIT	31.10	0	03:15	11.32	1.41	0.85
1FQSWMM7	CONDUIT	68.04	0	01:41	8.47	0.66	1.00
1FQSWMM8	CONDUIT	38.49	0	02:45	12.25	1.56	1.00
O17SWMM200	CONDUIT	5.44	0	02:03	4.97	0.37	0.38
O17SWMM201	CONDUIT	5.41	0	02:05	6.01	0.21	0.33
O17SWMM202	CONDUIT	5.44	0	02:06	5.86	0.22	0.40
BROADWAYPUMPSTATION	PUMP	125.00	0	02:17		0.96	
ALCALDEPUMPSTATION	PUMP	226.94	0	01:53		0.84	
URBANPUMPSTATION	PUMP	11.38	0	02:23		0.95	
BARELASPUMPSTATION	PUMP	365.91	0	01:56		0.90	
WEIRIRON14TH	WEIR	29.75	0	01:51			0.24
WEIRBROADWAY	WEIR	67.21	0	01:30			1.00
BR21OUTLET	DUMMY	9.48	0	02:26			

Flow Classification Summary

Conduit	Adjusted /Actual Length	--- Fraction of Time in Flow Class ---							Avg. Froude Number	Avg. Flow Change
		Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit		
ESWMM57	1.00	0.01	0.00	0.00	0.05	0.00	0.00	0.94	0.32	0.0000
1FOSWMM6	1.00	0.01	0.00	0.00	0.37	0.00	0.00	0.63	0.31	0.0000
1FOSWMM7	1.00	0.01	0.00	0.00	0.10	0.00	0.00	0.90	0.18	0.0000
1FQSWMM17	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.06	0.0000
1FQSWMM18	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.33	0.0000
1FOSWMM19	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.38	0.0000
1FOSWMM20	1.00	0.00	0.00	0.00	0.25	0.00	0.00	0.74	0.41	0.0000
ESWMM41	1.00	0.10	0.00	0.00	0.05	0.00	0.00	0.86	0.28	0.0000
1FOSWMM22	1.00	0.00	0.01	0.00	0.02	0.00	0.00	0.97	1.27	0.0000
ESWMM42	1.00	0.00	0.00	0.00	0.00	0.01	0.00	0.99	0.08	0.0000
1FQSWMM4	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.17	0.0000
1FQSWMM9	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.18	0.0005
ESWMM58	1.00	0.01	0.00	0.00	0.02	0.00	0.00	0.98	0.58	0.0000
ESWMM59	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.05	0.0000
ESWMM60	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.08	0.0000
ESWMM91	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.13	0.0003
ESWMM92	1.00	0.01	0.00	0.00	0.21	0.00	0.00	0.78	0.29	0.0003
1FQSWMM10	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.33	0.0000
1FQSWMM11	1.00	0.00	0.00	0.00	0.75	0.00	0.00	0.25	0.43	0.0001
1FQSWMM12	1.00	0.00	0.00	0.00	0.03	0.00	0.00	0.97	0.35	0.0000
1FQSWMM13	1.00	0.00	0.00	0.00	0.03	0.00	0.00	0.97	0.53	0.0001
1FQSWMM14	1.00	0.00	0.00	0.00	0.22	0.00	0.00	0.78	1.02	0.0001
ESWMM6	1.00	0.88	0.09	0.00	0.03	0.00	0.00	0.00	0.01	0.0002
ESWMM93	1.00	0.01	0.00	0.00	0.17	0.00	0.00	0.82	0.66	0.0002
ESWMM94	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.46	0.0002
ESWMM96	1.00	0.01	0.00	0.00	0.73	0.00	0.00	0.26	0.40	0.0003
ESWMM97	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.40	0.0001
ESWMM98	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.38	0.0000
ESWMM61	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.26	0.0000
ESWMM62	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.53	0.0002
ESWMM63	1.00	0.01	0.00	0.00	0.20	0.00	0.00	0.79	0.75	0.0002
ESWMM64	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.22	0.0001
ESWMM65	1.52	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.25	0.0000

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ESWMM66	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.54	0.0000
ESWMM67	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.16	0.0000
ESWMM68	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.51	0.0000
ESWMM69	1.00	0.01	0.00	0.00	0.08	0.00	0.00	0.91	0.77	0.0000
ESWMM30	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.28	0.0000
ESWMM29	1.00	0.01	0.00	0.00	0.02	0.00	0.00	0.97	0.50	0.0000
ESWMM28	1.00	0.95	0.00	0.00	0.03	0.00	0.00	0.02	0.02	0.0000
ESWMM27	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.03	0.0000
ESWMM26	3.14	0.01	0.00	0.00	0.02	0.00	0.97	0.00	0.07	0.0000
ESWMM25	1.00	0.01	0.00	0.00	0.03	0.00	0.00	0.96	0.35	0.0001
ESWMM24	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.25	0.0001
ESWMM50	1.00	0.01	0.00	0.00	0.00	0.00	0.99	0.00	0.05	0.0000
ESWMM51	1.00	0.00	0.00	0.00	0.05	0.01	0.00	0.94	1.37	0.0000
ESWMM52	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.06	0.0000
BLUPIPE	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.0000
1FQSWMM6	3.49	0.00	0.00	0.00	0.02	0.05	0.00	0.93	2.19	0.0000
ESWMM47	1.00	0.00	0.00	0.00	0.06	0.01	0.00	0.93	1.11	0.0000
ESWMM48	1.00	0.80	0.09	0.00	0.06	0.00	0.04	0.00	0.01	0.0000
ESWMM49	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.66	0.0000
ESWMM54	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.02	0.0000
ESWMM55	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.24	0.0002
ESWMM56	1.00	0.01	0.00	0.00	0.68	0.00	0.00	0.31	0.37	0.0002
ESWMM95	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.35	0.0002
48SDTOBPS	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.96	0.69	0.0000
ESWMM23	1.00	0.00	0.00	0.00	0.17	0.00	0.00	0.82	0.41	0.0001
ESWMM22	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.32	0.0001
ESWMM21	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.17	0.0000
ESWMM20	1.00	0.01	0.00	0.00	0.07	0.00	0.00	0.92	0.39	0.0001
ESWMM19	1.00	0.01	0.00	0.00	0.06	0.00	0.00	0.93	0.45	0.0000
ESWMM18	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.32	0.0000
ESWMM17	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.31	0.0000
ESWMM16	1.00	0.00	0.00	0.00	0.24	0.01	0.00	0.75	0.66	0.0000
ESWMM70	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.95	0.47	0.0000
ESWMM15	1.00	0.00	0.00	0.00	0.12	0.00	0.00	0.87	0.30	0.0001
ESWMM71	1.00	0.00	0.00	0.00	0.90	0.00	0.00	0.09	0.69	0.0000
ESWMM72	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.47	0.0000
ESWMM7	1.00	0.70	0.18	0.00	0.10	0.00	0.00	0.02	0.02	0.0000
ESWMM12	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.18	0.0000
ESWMM9	1.00	0.01	0.14	0.00	0.85	0.00	0.00	0.00	0.04	0.0000
ESWMM99	1.00	0.00	0.00	0.00	0.08	0.00	0.00	0.92	0.57	0.0000
ESWMM8	1.50	0.00	0.00	0.00	0.02	0.00	0.00	0.97	2.28	0.0000
ESWMM10	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.32	0.0000
ESWMM11	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.36	0.0000
ESWMM90	1.00	0.01	0.00	0.00	0.25	0.00	0.00	0.75	0.36	0.0000
ESWMM89	1.00	0.01	0.00	0.00	0.27	0.00	0.00	0.73	0.41	0.0000
ESWMM88	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.46	0.0000
ESWMM87	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.10	0.0000
ESWMM86	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.38	0.0000
ESWMM85	1.00	0.01	0.00	0.00	0.83	0.17	0.00	0.00	0.49	0.0000
ESWMM84	1.00	0.01	0.07	0.00	0.92	0.00	0.00	0.00	0.13	0.0000
ESWMM83	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.03	0.0000
ESWMM82	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.01	0.0000
ESWMM73	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.42	0.0000
ESWMM76	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.49	0.0000
ESWMM77	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.42	0.0000
ESWMM78	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.41	0.0000
ESWMM79	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.46	0.0000
ESWMM80	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.36	0.0000
ESWMM81	1.00	0.01	0.00	0.00	0.73	0.26	0.00	0.00	0.66	0.0020
ESWMM14	1.00	0.00	0.00	0.00	0.36	0.00	0.00	0.63	0.33	0.0001
ESWMM13	1.00	0.11	0.83	0.00	0.07	0.00	0.00	0.00	0.00	0.0000
ESWMM125	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.10	0.0000
1FQSWMM5	1.00	0.00	0.00	0.00	0.03	0.00	0.00	0.97	0.59	0.0000
ESWMM71A	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.70	0.0000
ESWMM126	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.0003
ESWMM127	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.04	0.0000
ESWMM128	1.00	0.00	0.10	0.00	0.90	0.00	0.00	0.00	0.04	0.0000
ESWMM129	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.42	0.0000
ESWMM132	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.06	0.0000
60SDTOBPS	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.95	1.20	0.0000
ESWMM135	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.62	0.0000
ESWMM53	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.0000

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ESWMM75	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.32	0.0000
1FOSWMM13	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.18	0.0000
1FOSWMM14	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.39	0.0000
1FOSWMM15	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.89	0.0000
ESWMM201	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.21	0.0000
ESWMM203	1.00	0.01	0.02	0.00	0.84	0.14	0.00	0.00	0.32	0.0000
ESWMM200	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.05	0.0000
ESWMM202	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.0000
ESWMM500	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.43	0.0000
ESWMM74	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.37	0.0000
ESWMM74A	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.09	0.0000
1FOSWMM1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.56	0.0000
1FOSWMM2	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.19	0.0000
1FOSWMM3	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.49	0.0000
1FOSWMM4	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.12	0.0008
1FOSWMM5	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.33	0.0000
1FQSWMM1	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.16	0.0000
1FQSWMM2	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.39	0.0001
1FQSWMM3	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	1.24	0.0002
1FQSWMM7	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.32	0.0000
1FQSWMM8	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.54	0.0006
O17SWMM200	1.00	0.00	0.00	0.00	0.80	0.19	0.00	0.00	0.78	0.0000
O17SWMM201	1.00	0.00	0.00	0.00	0.58	0.41	0.00	0.00	1.01	0.0000
O17SWMM202	1.00	0.00	0.00	0.00	0.02	0.01	0.00	0.97	1.38	0.0000

Conduit Surcharge Summary

Conduit	Hours Full			Hours	
	Both Ends	Upstream	Dnstream	Above Full Normal Flow	Capacity Limited
1FOSWMM7	5.67	5.67	5.67	2.01	1.95
1FQSWMM9	4.86	4.86	4.97	0.83	1.98
ESWMM91	1.92	1.92	1.92	3.41	1.70
ESWMM92	1.49	1.49	1.52	3.60	1.45
1FQSWMM10	0.28	0.28	0.29	0.01	0.01
1FQSWMM11	0.64	0.64	0.64	0.01	0.01
1FQSWMM12	1.76	1.76	1.76	0.89	0.79
1FQSWMM13	2.93	2.93	2.95	2.04	2.65
1FQSWMM14	3.30	3.30	3.30	0.01	0.23
ESWMM6	0.05	0.05	0.05	3.12	0.03
ESWMM93	1.76	1.76	1.76	1.30	0.84
ESWMM94	1.16	1.16	1.18	0.27	0.49
ESWMM96	1.29	1.29	1.30	0.94	0.53
ESWMM97	0.77	0.77	0.79	0.01	0.18
ESWMM98	0.44	0.44	0.46	0.16	0.38
ESWMM62	1.94	1.94	1.94	0.01	0.41
ESWMM63	2.07	2.07	2.07	0.01	0.48
ESWMM64	2.22	2.22	2.22	0.20	1.60
ESWMM65	1.99	1.99	1.99	0.01	0.01
ESWMM66	1.99	1.99	1.99	0.01	0.09
ESWMM67	2.10	2.10	2.10	0.01	2.10
ESWMM68	1.80	1.80	1.80	0.01	0.07
ESWMM69	2.17	2.17	2.17	0.01	0.20
ESWMM30	0.68	0.68	0.68	0.01	0.01
ESWMM29	0.08	0.08	0.08	0.01	0.01
ESWMM28	0.98	0.98	0.98	0.01	0.01
ESWMM27	1.20	1.20	1.20	1.56	1.18
ESWMM26	0.57	0.57	0.57	0.01	0.01
ESWMM25	1.47	1.47	1.47	0.05	1.30
ESWMM24	1.00	1.00	1.03	0.01	0.14
ESWMM50	0.14	0.14	0.14	0.80	0.01
ESWMM51	0.25	0.25	0.25	0.01	0.03
ESWMM52	2.27	2.27	2.27	0.33	0.67
BLUPIPE	1.67	1.67	1.68	1.89	1.26
1FQSWMM6	1.78	1.78	1.78	0.01	0.01
ESWMM47	2.42	2.42	2.42	0.37	0.01
ESWMM48	3.56	3.56	3.56	0.01	0.01

ESWMM49	3.91	3.91	3.91	0.01	0.01
ESWMM54	0.20	0.20	0.20	0.01	0.01
ESWMM55	1.48	1.48	1.53	0.01	0.31
ESWMM56	1.82	1.82	1.87	0.02	0.31
ESWMM95	1.33	1.33	1.35	0.20	0.47
48SDTOBPS	4.29	4.29	4.29	3.02	4.29
ESWMM23	0.03	0.03	0.03	0.01	0.01
ESWMM22	1.34	1.34	1.37	0.04	1.22
ESWMM21	1.50	1.50	1.52	0.01	0.10
ESWMM20	2.19	2.19	2.20	0.01	0.23
ESWMM19	2.42	2.42	2.43	0.01	1.59
ESWMM18	2.51	2.51	2.51	0.01	0.25
ESWMM17	2.55	2.55	2.55	0.31	2.40
ESWMM16	2.56	2.56	2.56	0.01	0.05
ESWMM70	2.25	2.25	2.26	0.01	0.23
ESWMM15	2.19	2.19	2.22	0.01	0.19
ESWMM71	2.35	2.35	2.35	0.01	0.70
ESWMM72	2.75	2.75	2.75	0.01	2.73
ESWMM7	0.01	0.01	0.01	0.98	0.01
ESWMM12	0.01	0.01	0.01	1.81	0.01
ESWMM9	0.23	0.23	0.23	0.01	0.01
ESWMM99	0.01	0.01	0.01	0.72	0.01
ESWMM8	0.26	0.26	0.26	0.01	0.01
ESWMM10	2.87	2.87	2.87	3.45	2.87
ESWMM83	3.40	3.40	3.40	0.04	0.20
ESWMM82	3.41	3.41	3.41	0.77	0.66
ESWMM73	2.74	2.74	2.74	2.35	2.72
ESWMM77	0.01	0.01	0.01	0.34	0.01
ESWMM78	0.01	0.01	0.01	2.88	0.01
ESWMM81	0.01	0.01	0.01	3.05	0.01
ESWMM14	1.77	1.77	1.78	0.01	0.33
ESWMM13	0.24	0.24	0.25	0.01	0.02
1FQSWMM5	1.32	1.32	1.32	0.01	0.01
ESWMM71A	2.73	2.73	2.73	0.01	0.01
ESWMM126	2.73	2.73	2.73	0.46	1.74
ESWMM127	2.08	2.08	2.08	0.01	0.01
ESWMM132	2.68	2.68	2.68	0.01	0.01
60SDTOBPS	3.27	3.27	3.27	0.01	0.01
ESWMM135	0.01	0.01	0.01	3.64	0.01
ESWMM53	0.20	0.20	0.20	0.01	0.01
ESWMM75	0.25	0.25	0.25	3.73	0.25
ESWMM201	1.76	1.76	1.76	3.30	1.76
ESWMM500	3.44	3.44	3.44	3.59	3.38
ESWMM74	2.74	2.74	2.74	0.01	2.35
ESWMM74A	2.46	2.46	2.46	2.81	2.46
1FOSWMM1	2.50	2.50	2.50	0.01	0.04
1FOSWMM2	3.31	3.31	3.31	0.31	0.38
1FOSWMM3	4.78	4.78	4.78	3.28	2.14
1FOSWMM4	5.54	5.54	5.65	2.19	2.95
1FOSWMM5	9.46	9.46	9.46	13.56	9.16
1FQSWMM1	0.01	0.01	0.01	0.11	0.01
1FQSWMM2	0.01	0.01	0.01	0.13	0.01
1FQSWMM3	0.01	0.01	0.01	2.57	0.01
1FQSWMM7	6.37	6.37	6.37	0.01	0.01
1FQSWMM8	12.07	12.07	12.08	4.52	6.73

Pumping Summary

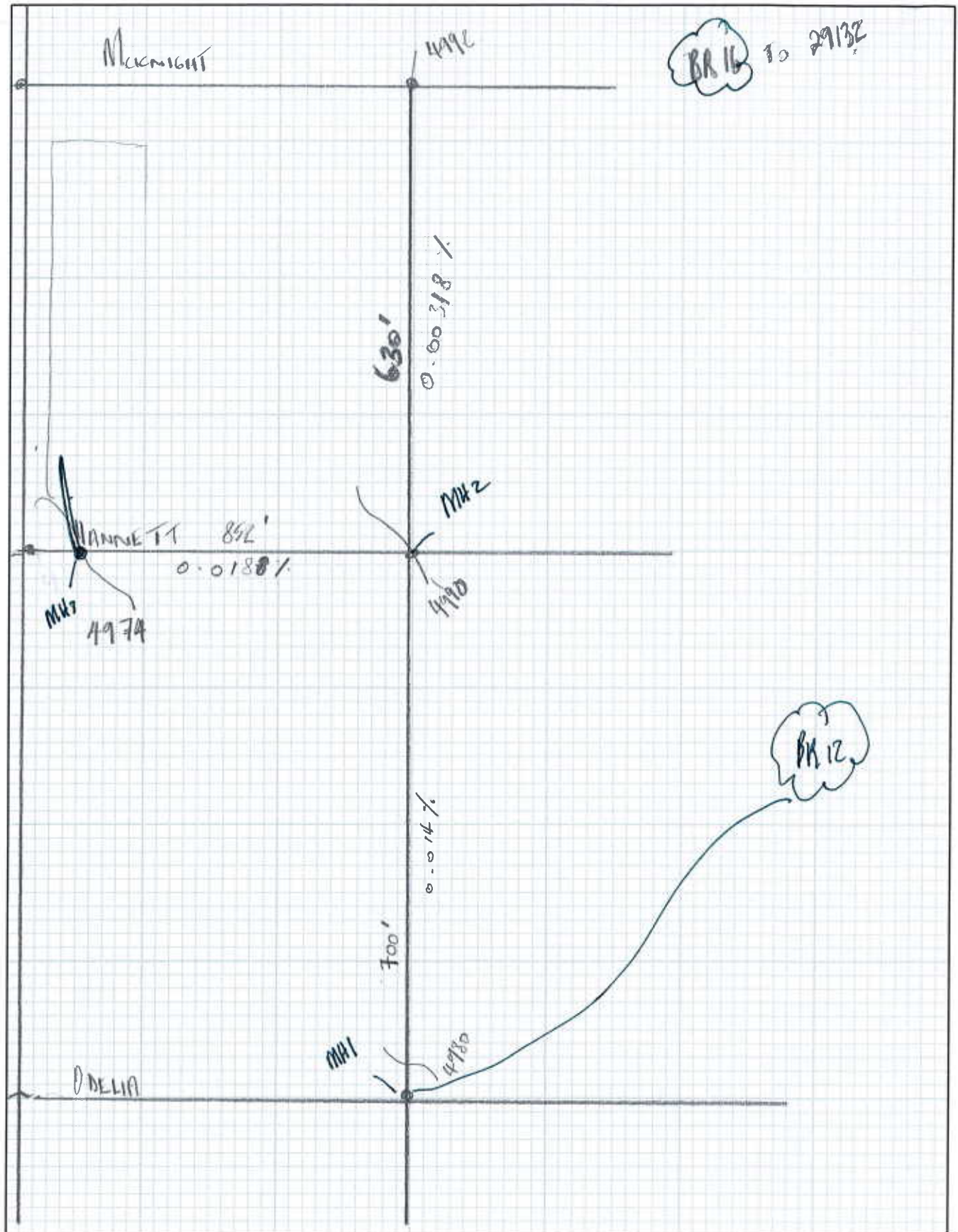
Pump	Percent Utilized	Number of Start-Ups	Min Flow CFS	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal	Power Usage Kw-hr	% Time Off Pump Curve	Low High
BROADWAYPUMPSTATION	99.81	269	0.00	6.30	125.00	23.026	11538.84	95.5	0.0
ALCALDEPUMPSTATION	99.28	52	0.00	8.64	226.94	31.337	2797.54	98.1	0.0
URBANPUMPSTATION	3.48	1649	0.00	7.15	11.38	0.953	46.97	42.2	0.0
BARELASPUMPSTATION	94.77	6523	0.00	17.85	365.91	61.645	3368.87	96.5	

O17

Analysis begun on: Fri Feb 10 11:11:59 2012
Analysis ended on: Fri Feb 10 11:14:52 2012
Total elapsed time: 00:02:53



PROJECT Mid Valley SHEET NO. 1 OF 2
SUBJECT New SD For G&R PROJECT NO. 110 112
BY Chas DATE 6/3/11 CHECKED BY _____ DATE 1/1



Smith Engineering Company

2201 San Pedro NE Bldg. #4, Suite 200 Albuquerque, New Mexico 87110 505/884-0700 Fax 505/884-2376

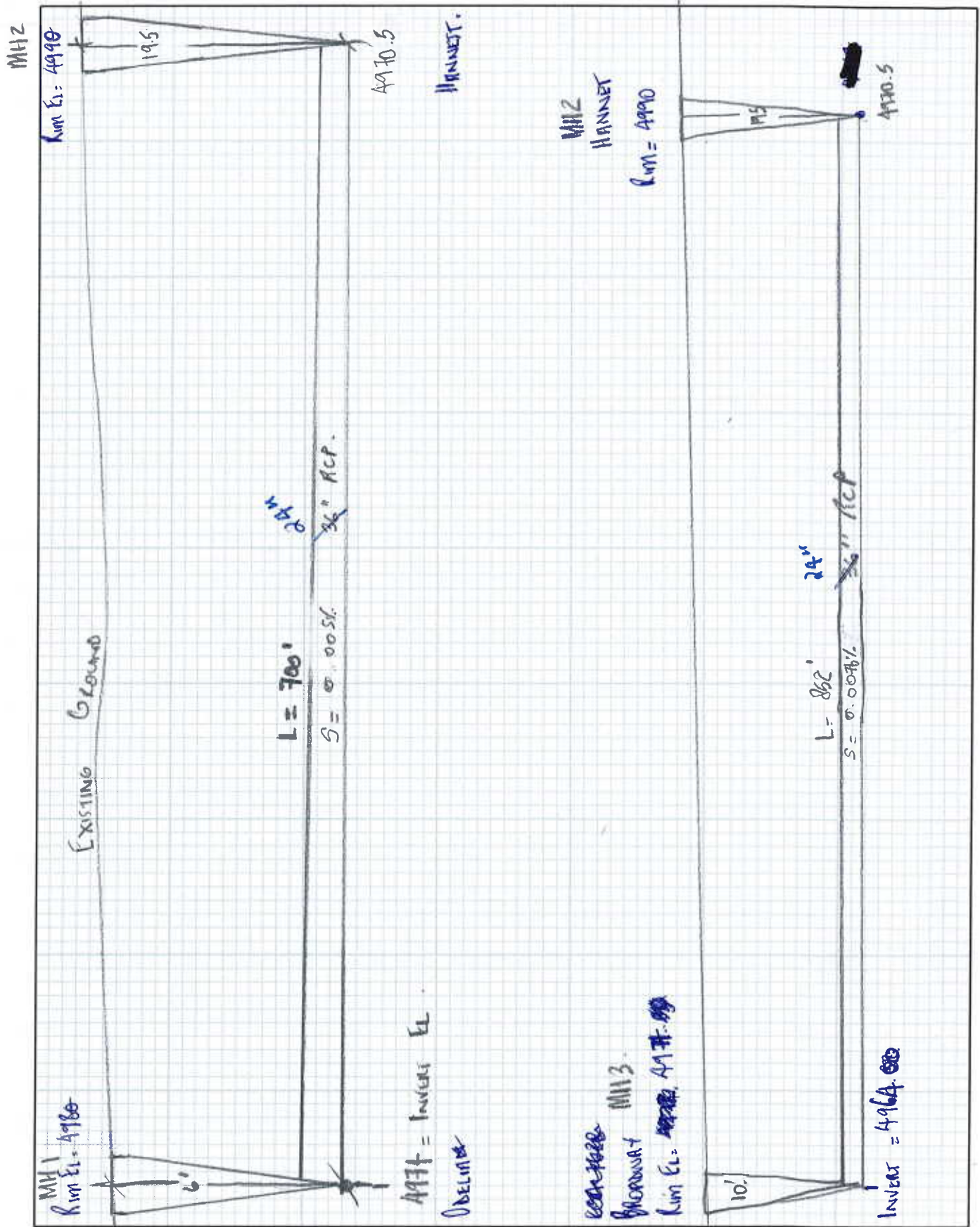


PROJECT Mia Valley
SUBJECT New Storm Drain For Bldg 12
BY CHS

SHEET NO. 2 OF 2

PROJECT NO. _____

DATE 10/3/11 CHECKED BY _____ DATE 1/1



Smith Engineering Company

2201 San Pedro NE Bldg. #4, Suite 200 Albuquerque, New Mexico 87110 505/884-0700 Fax 505/884-2376



1F05Wmm 21

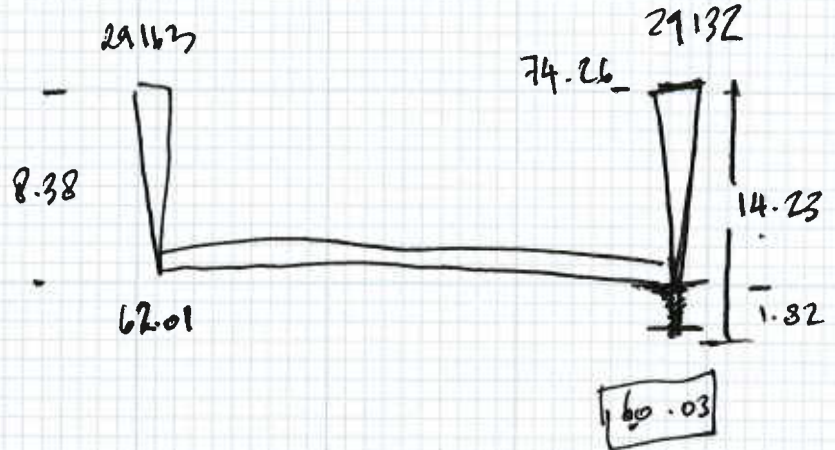
L = 638

$$C_{M^*} = 0.25$$
$$p_x = 0.25$$

LOA 29132

Change met from

60.03 $\rightarrow$ 61.85



Change Max Depth to 12.41 ft.

New Investment = 61.85.

CHANGE To ~~THE~~ COA 29132 To Allow the Drainage
Into SANTA BARBARA Pond